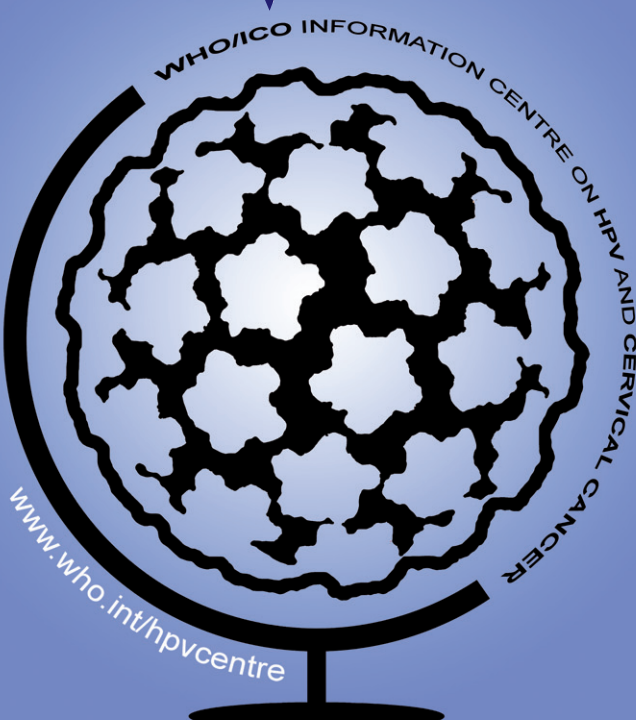


HPV and Cervical Cancer in the World 2007 Report

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K. Irwin, M. Gacic, O. Beauvais, G. Albero, E. Ferrer, S. Byrne, F.X. Bosch

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VACCINE is the pre-eminent journal for those interested in vaccines and vaccination. It serves as an interface between academics, those in research and development, and workers in the field. Relevant topics range from basic research through to applications, safety and legislation.

Key aspects include

- human
- veterinary
- disease prevention
- physiological manipulation
- molecular biology
- synthetic peptides
- recombinant antigens
- vectors
- new immunogens
- adjuvants
- animals models
- immunity
- immunology of protection
- fertility
- academic research
- developmental applications
- field trials
- clinical trials
- laboratory production
- industrial production
- social implications
- epidemiology
- efficacy
- safety
- legislation
- regulation
- cost/benefit

These aspects may be applied to diseases caused by:

- viruses
 - bacteria
 - mycoplasma
 - protozoa
 - fungi
 - helminths
 - arthropods
 - prions
-

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Preface

The main aim of this report is to summarize the key information available on human papillomavirus (HPV), cervical cancer and other related indicators at the country-specific level.

The Immunization, Vaccines and Biologicals department of the World Health Organization and the Cancer Epidemiology and Registration Unit of the Institut Català d'Oncologia have developed the *WHO/ICO Information Centre on HPV and Cervical Cancer (HPV Information Centre)* to evaluate the burden of disease and to help facilitate stakeholders and relevant bodies of decision makers to formulate recommendations on cervical cancer prevention, including the implementation of the newly developed HPV vaccines.

Indicators aggregated by the *HPV Information Centre* are derived from data and official reports produced by the World Health Organization (WHO), the International Agency for Research on Cancer (IARC), the United Nations, The World Bank, and published literature. Indicators include relevant statistics on cervical cancer, epidemiological determinants of cervical cancer such as demographics, socioeconomic factors and other risk factors, estimates on the burden of HPV infection, and data on immunization and cervical cancer screening. The full data on these indicators can be found in a user-friendly interface at the *HPV Information Centre* website (www.who.int/hpvcentre). This report is an extract of the data included in the website and it will be updated regularly.

Presentation of Data

The following data are presented in this book.

Burden of cervical cancer is described in the country with estimates of prevalence, incidence and mortality rates. Ranking of cervical cancer in comparison to other cancers in women in each country is described according to highest incidence and mortality (ie. 1st ranking the highest).

HPV burden in women with and without cervical disease reports the HPV prevalence and HPV type-specific distribution in women with normal cytology, women with cervical neoplasia and women with invasive cervical cancer. The prevalence of HPV 16/18 in cervical cancer cases describe the proportion of cases that could potentially be prevented by current HPV vaccines.

HPV prevalence in women with cervical cancer should be interpreted with caution. It is now established that HPV is the cause of virtually 100% of cases of cervical cancer. Therefore, HPV prevalence in cervical cancer should be approximately 100%. Countries or regions with lower estimates are due to limitations in study methodologies such as sample quality, inhibitors for HPV DNA detection and the accuracy and performance of the HPV DNA assays used.

For countries with no data available, regional estimates are presented. Estimates were calculated from published literature.

Cervical screening coverage describes the coverage achieved in the country.

Factors contributing to cervical cancer describe factors that can modify the natural history of HPV and cervical carcinogenesis. HPV is a necessary cause of cervical cancer, but it is not a sufficient cause. Other cofactors are necessary for progression from cervical HPV infection to cancer. Long-term use of hormonal contraceptives, high parity, tobacco smoking, and co-infection with HIV have been identified as established cofactors; co-infection with *Chlamydia trachomatis* and herpes simplex virus type-2, immunosuppression, and certain dietary deficiencies are other probable cofactors. Genetic and immunological host factors and viral factors other than type, such as variants of type, viral load and viral integration, are likely to be important but have not been clearly identified (Muñoz N, Vaccine 2006; 24S3: S3-1).

Relevant factors for HPV vaccine introduction present data on vaccination coverage for third dose of diphtheria-tetanus-pertussis (DTP3) at the country-level and at the local-level. This information will be relevant for assessing the country's capacity to introduce and implement the new HPV vaccines.

SECTION I. CONTINENTS and REGIONS

WORLD

The World has a population of 2329.08 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 493,243 women are diagnosed with cervical cancer and 273,505 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women in the World, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers in the World are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.2	8.9
Age-standardized rate	16.2	8.9
Cumulative risk (%). Age period 0-64 years	1.3	0.7
SIR/SMR	100	100
Annual number of new cases/deaths	493243	273505
Ranking of cervical cancer (all ages)†	2nd	3rd
Ranking of cervical cancer (15-44 years)†	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

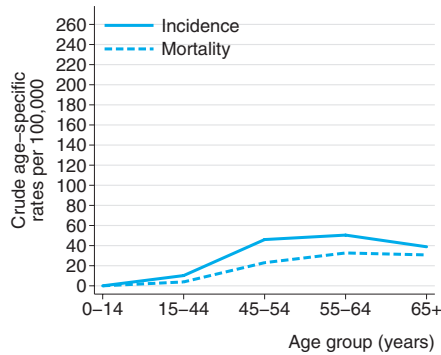


Fig. 2. Ranking of incidence of cervical cancer in comparison to other cancers in women by country
WOMEN ALL AGES
WOMEN 15-44 YEARS

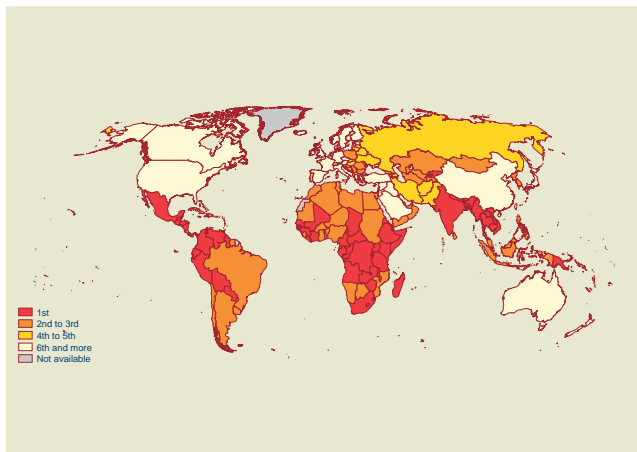
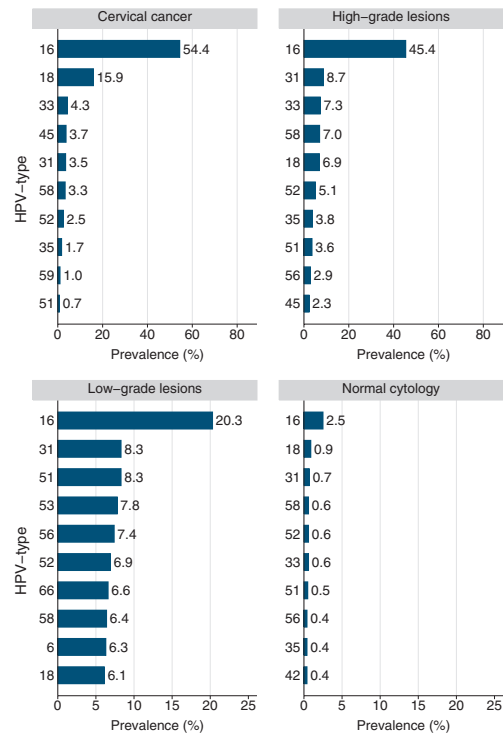


Table 2. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	157879	10.0 (9.8-10.1)
Low-grade lesions	8640	71.6 (70.6-72.5)
High-grade lesions	7094	84.9 (84.1-85.7)
Cervical Cancer: any type	14595	87.2* (86.7-87.8)
Cervical Cancer: HPV 16/18	14595	70.1 (69.3-70.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 3. Ten most frequent HPV types in women with and without cervical disease



AFRICA

Africa has a population of 267.9 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 78,897 women are diagnosed with cervical cancer and 61,671 die from the disease. Cervical cancer ranks as the 1st most frequent cancer in women in Africa, and the 1st most frequent among women between 15 and 44 years of age.

In Africa, about 24.9% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers in Africa are attributed to HPVs 16 or 18.

Fig. 1. Age-standardized (World) incidence rates of cervical cancer per 100,000 women in Africa

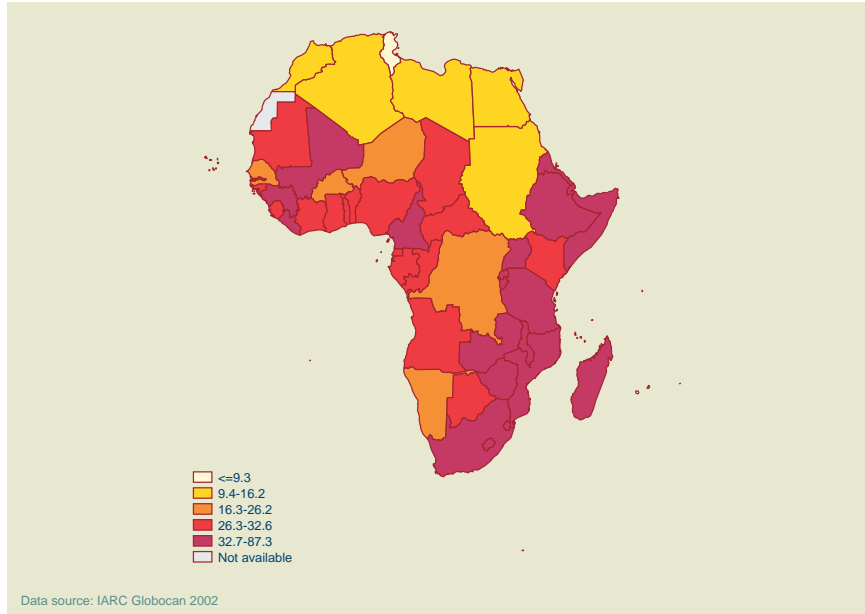


Fig. 2. Age-specific incidence rates of cervical cancer in Africa and the World

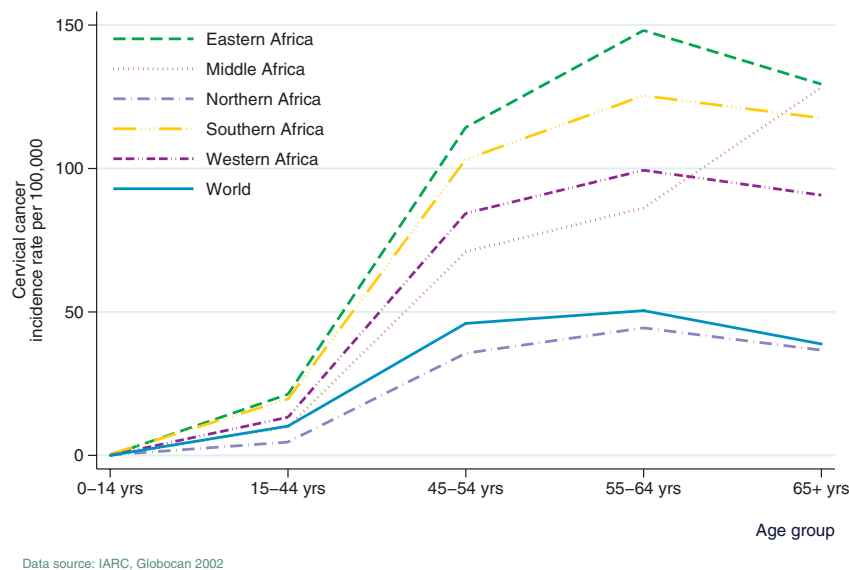


Table 1. Female population and estimates of incidence and mortality for cervical cancer

Region / Country	Female population†		Incidence		Ranking		Mortality	
	10-14 years	15+ years	Cases	ASR‡	All women	15-44 years	Deaths	ASR‡
Africa Continent	54.96	267.86	78897	29.3	1st	1st	61671	23.1
Eastern Africa	18.45	81.36	33903	42.7	1st	1st	27147	34.6
Burundi	0.50	2.17	899	42.7	1st	2nd	722	34.6
Comoros	0.05	0.23	97	42.7	1st	1st	79	34.6
Djibouti	0.05	0.23	113	42.7	1st	1st	90	34.6
Eritrea	0.28	1.26	548	42.7	1st	1st	438	34.6
Ethiopia	5.03	21.76	7619	35.9	1st	1st	6081	29
Kenya	2.10	9.82	2635	28.7	1st	2nd	2111	23.4
Madagascar	1.16	5.27	2238	42.7	1st	1st	1795	34.6
Malawi	0.85	3.46	1766	46.6	1st	2nd	1405	37.4
Mauritius	0.05	0.48	111	18.2	2nd	2nd	61	10.2
Mozambique	1.27	5.88	2058	33.6	2nd	1st	1654	27.2
Rwanda	0.59	2.68	1087	49.4	1st	2nd	878	40.4
Seychelles	-	-	-	-	-	-	-	-
Somalia	0.47	2.34	1134	42.7	1st	1st	906	34.6
Uganda	1.92	7.19	2429	36.3	1st	2nd	1932	29.2
Tanzania	2.44	11.14	7515	68.6	1st	1st	6009	55.6
Zambia	0.79	3.17	1650	53.7	1st	2nd	1340	44
Zimbabwe	0.87	3.96	1817	52.1	1st	2nd	1492	43.1
Middle Africa	7.01	30.16	8201	28	1st	3rd	6687	23
Angola	1.05	4.37	1158	28.6	1st	1st	926	23.2
Cameroon	1.03	4.86	1759	35.7	1st	2nd	1419	28.9
Central African Rep.	0.26	1.20	374	28	1st	3rd	306	23
Chad	0.63	2.62	681	28	1st	2nd	555	23
Congo	0.26	1.08	303	30.5	1st	2nd	242	24.6
DR Congo	3.65	15.43	3709	25.1	1st	4th	3058	20.9
Equatorial Guinea	0.03	0.14	45	28	1st	2nd	37	23
Gabon	0.09	0.42	164	30.6	1st	1st	135	24.9
Sao Tome & Principe	0.01	0.05	-	-	-	-	-	-
Northern Africa	10.00	64.13	8175	12.1	2nd	2nd	6588	9.8
Algeria	1.76	11.51	1726	15.6	2nd	2nd	1391	12.7
Egypt	3.80	24.75	2713	9.7	2nd	2nd	2178	7.9
Libya	0.27	1.97	218	11.9	2nd	2nd	175	9.6
Morocco	1.59	11.02	1550	13.2	2nd	2nd	1247	10.7
Sudan	2.09	11.02	1664	15.4	2nd	2nd	1354	12.7
Tunisia	0.48	3.74	284	6.8	2nd	2nd	229	5.5
Southern Africa	2.98	18.59	7698	38.2	1st	1st	4455	22.6
Botswana	0.11	0.57	156	30.4	2nd	3rd	126	24.7
Lesotho	0.12	0.61	479	61.6	1st	1st	391	50.3
Namibia	0.14	0.61	133	22.2	2nd	2nd	109	18.1
South Africa	2.53	16.48	6742	37.5	1st	1st	3681	21
Swaziland	0.07	0.32	186	58.9	1st	1st	150	47.6
Western Africa	16.53	73.62	20919	29.3	2nd	2nd	16793	23.8
Benin	0.52	2.35	561	29.3	2nd	2nd	448	23.8
Burkina Faso	0.87	3.51	921	23.4	2nd	2nd	724	18.5
Cape Verde	0.03	0.16	47	29.3	2nd	2nd	38	23.8
Côte d'Ivoire	1.17	5.13	1497	30.1	1st	2nd	1192	24.3
Gambia	0.09	0.46	157	28.8	1st	1st	124	23
Ghana	1.32	6.70	1958	29.3	2nd	2nd	1572	23.8
Guinea	0.57	2.59	1444	50.9	1st	1st	1138	40.5
Guinea-Bissau	0.10	0.43	124	29.3	2nd	2nd	99	23.8
Liberia	0.21	0.88	320	35	1st	1st	256	28.1
Mali	0.88	3.58	1336	35.2	1st	1st	1076	28.4
Mauritania	0.18	0.89	259	29.3	2nd	2nd	209	23.8
Niger	0.86	3.49	679	19.9	2nd	1st	532	15.7
Nigeria	8.28	36.59	9922	28.5	2nd	2nd	8030	23.3
Senegal	0.74	3.47	804	26.2	1st	2nd	640	21.1
Sierra Leone	0.33	1.62	452	29.3	2nd	2nd	362	23.8
Togo	0.39	1.77	435	29.3	2nd	2nd	349	23.8

†Population in millions.

‡ASR: age-standardized rate per 100,000 women.

Estimates were calculated using the direct method and the World population as the reference.

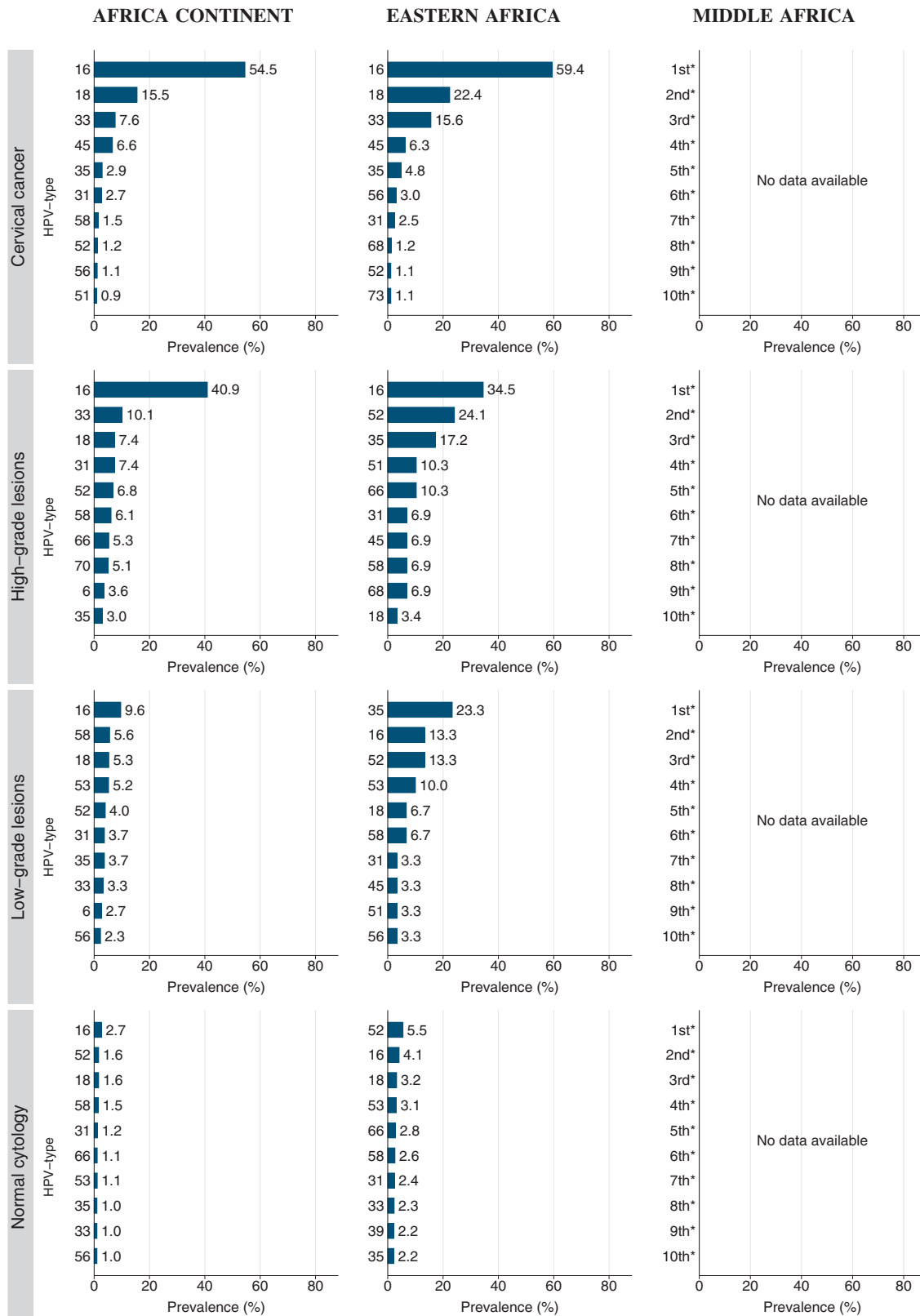
Table 2. Prevalence of HPV in women with normal cytology, precancerous cervical lesions and invasive cervical cancer

Country /Region	Normal cytology		Low-grade lesions†		High-grade lesions‡		Cervical cancer	
	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)
Africa Continent	6226	23.0 (21.9-24.0)	301	59.1 (53.3-64.7)	296	85.1 (80.6-89.0)	1339	93.9 (92.5-95.1)
Eastern Africa	2144	35.4 (33.4-37.5)	30	60 (40.6-77.3)	29	96.6 (82.2-99.9)	478	96.4 (94.4-97.9)
Burundi	-	--	-	--	-	--	-	--
Comoros	-	--	-	--	-	--	-	--
Djibouti	-	--	-	--	-	--	-	--
Eritrea	-	--	-	--	-	--	-	--
Ethiopia	-	--	-	--	-	--	163	96.9 (93.0-99.0)
Kenya	369	38.8 (33.8-43.9)	30	60 (40.6-77.3)	29	96.6 (82.2-99.9)	-	--
Madagascar	-	--	-	--	-	--	-	--
Malawi	-	--	-	--	-	--	-	--
Mauritius	-	--	-	--	-	--	-	--
Mozambique	196	32.1 (25.7-39.2)	-	--	-	--	72	97.2 (90.3-99.7)
Rwanda	-	--	-	--	-	--	-	--
Seychelles	-	--	-	--	-	--	-	--
Somalia	-	--	-	--	-	--	-	--
Uganda	-	--	-	--	-	--	43	97.7 (87.7-99.9)
Tanzania	-	--	-	--	-	--	102	94.1 (87.6-97.8)
Zambia	-	--	-	--	-	--	-	--
Zimbabwe	1579	35.0 (32.7-37.4)	-	--	-	--	98	96.9 (91.3-99.4)
Middle Africa	-	--	-	--	-	--	-	--
Angola	-	--	-	--	-	--	-	--
Cameroon	-	--	-	--	-	--	-	--
Central African Rep.	-	--	-	--	-	--	-	--
Chad	-	--	-	--	-	--	-	--
Congo	-	--	-	--	-	--	-	--
DR Congo	-	--	-	--	-	--	-	--
Equatorial Guinea	-	--	-	--	-	--	-	--
Gabon	-	--	-	--	-	--	-	--
Sao Tome & Principe	-	--	-	--	-	--	-	--
Northern Africa	172	21.5 (15.6-28.4)	-	--	-	--	335	95.5 (92.7-97.5)
Algeria	-	--	-	--	-	--	183	96.2 (92.3-98.4)
Egypt	-	--	-	--	-	--	-	--
Libya	-	--	-	--	-	--	-	--
Morocco	172	21.5 (15.6-28.4)	-	--	-	--	152	94.7 (89.9-97.7)
Sudan	-	--	-	--	-	--	-	--
Tunisia	-	--	-	--	-	--	-	--
Southern Africa	1269	15.5 (13.6-17.6)	-	--	129	88.4 (81.5-93.3)	308	93.8 (90.5-96.2)
Botswana	-	--	-	--	-	--	-	--
Lesotho	-	--	-	--	-	--	-	--
Namibia	-	--	-	--	-	--	-	--
South Africa	1269	15.5 (13.6-17.6)	-	--	129	88.4 (81.5-93.3)	308	93.8 (90.5-96.2)
Swaziland	-	--	-	--	-	--	-	--
Western Africa	2641	16.5 (15.1-18.0)	271	59 (52.9-65.0)	138	79.7 (72.0-86.1)	218	85.8 (80.4-90.1)
Benin	-	--	-	--	-	--	6	83.3 (35.9-99.6)
Burkina Faso	-	--	-	--	-	--	-	--
Cape Verde	-	--	-	--	-	--	-	--
Côte d'Ivoire	-	--	151	68.2 (60.1-75.5)	49	77.6 (63.4-88.2)	-	--
Gambia	-	--	-	--	-	--	-	--
Ghana	-	--	-	--	-	--	-	--
Guinea	-	--	-	--	-	--	18	100 (81.5-100.0)
Guinea-Bissau	-	--	-	--	-	--	-	--
Liberia	-	--	-	--	-	--	-	--
Mali	-	--	-	--	-	--	123	94.3 (88.6-97.7)
Mauritania	-	--	-	--	-	--	-	--
Niger	-	--	-	--	-	--	-	--
Nigeria	844	24.8 (21.9-27.8)	34	38.2 (22.2-56.4)	-	--	-	--
Senegal	1797	12.6 (11.1-14.3)	86	51.2 (40.1-62.1)	89	80.9 (71.2-88.5)	71	67.6 (55.5-78.2)
Sierra Leone	-	--	-	--	-	--	-	--
Togo	-	--	-	--	-	--	-	--

†Low-grade lesions: LSIL or CIN-1

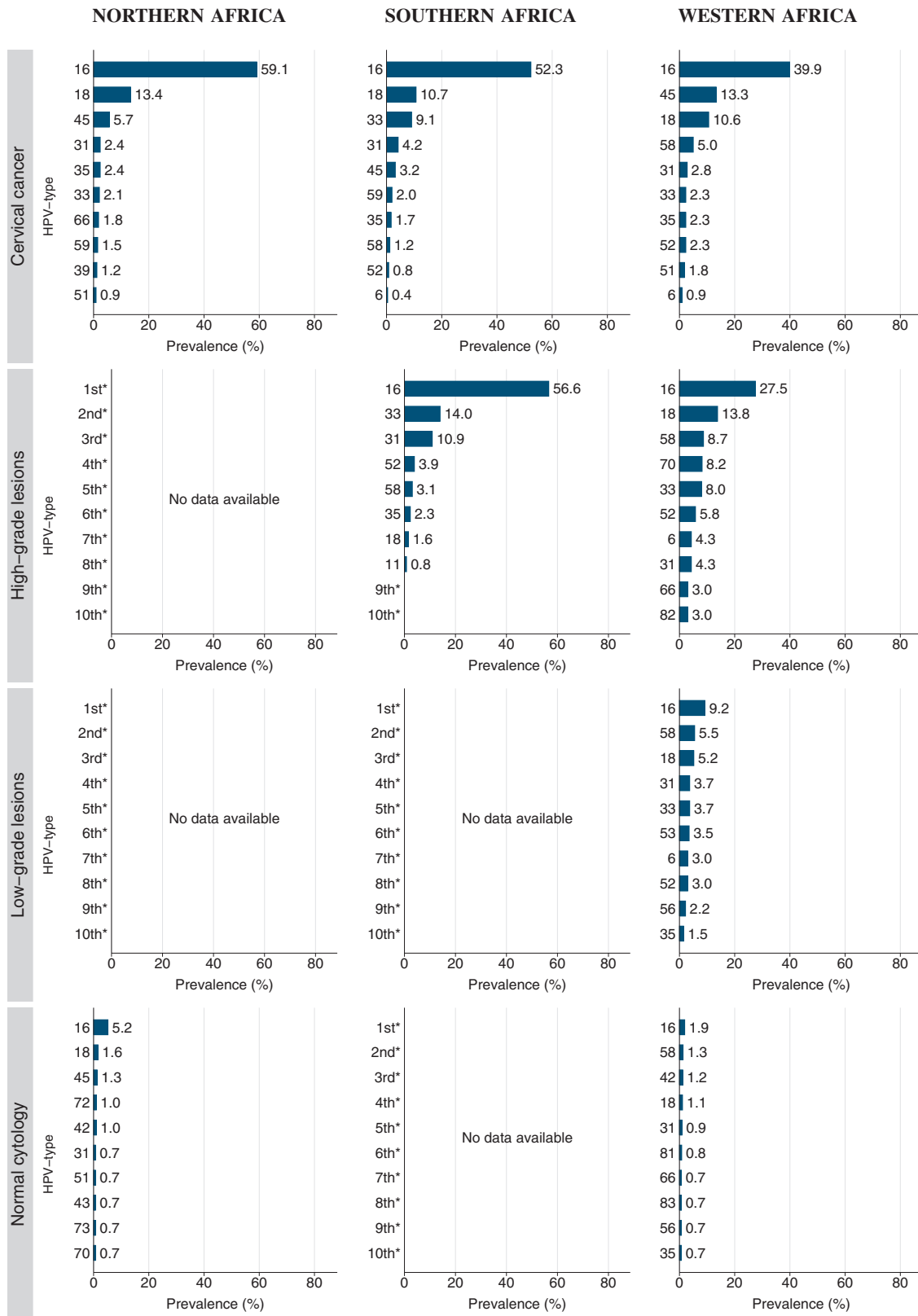
‡High-grade lesions: CIN-2, CIN-3, CIS or HSIL

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Africa



*No data available. No more types than shown were tested or were positive.

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Africa (continued)



*No data available. No more types than shown were tested or were positive.

AMERICAS

America has a population of 336.5 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 86,532 women are diagnosed with cervical cancer and 38,436 die from the disease. Cervical cancer ranks as the 4th most frequent cancer in women in America, and the 2nd most frequent among women between 15 and 44 years of age.

In America, about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.7% of invasive cervical cancers in America are attributed to HPVs 16 or 18.

Fig. 1. Age-standardized (World) incidence rates of cervical cancer per 100,000 women in America

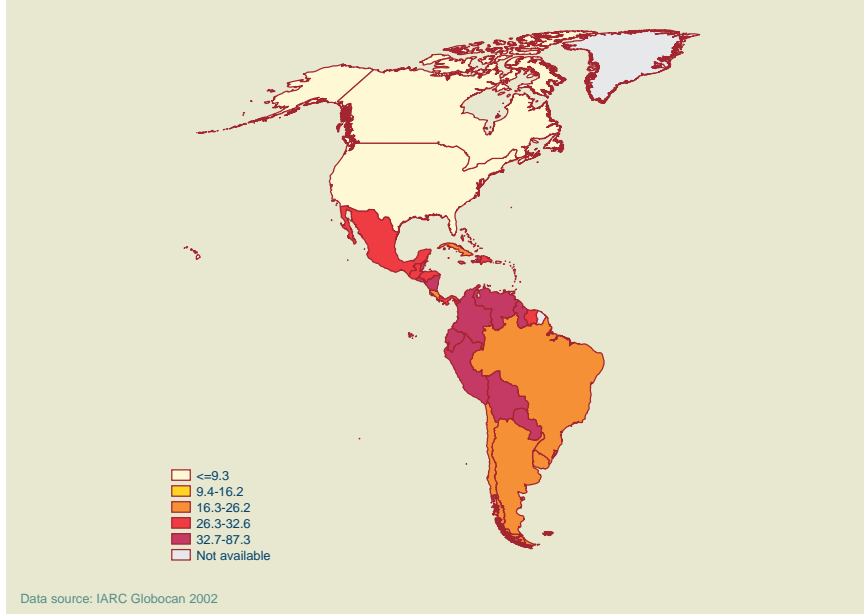


Fig. 2. Age-specific incidence rates of cervical cancer in America and the World

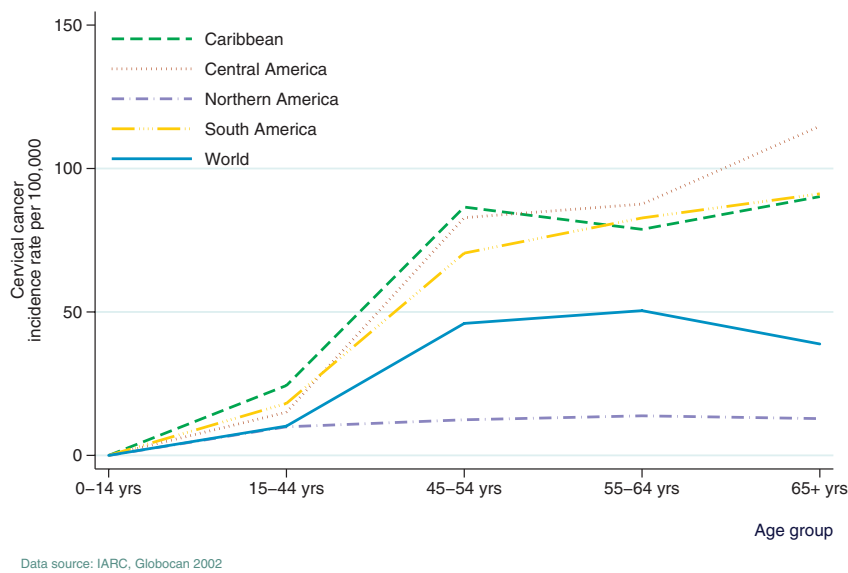


Table 1. Female population and estimates of incidence and mortality for cervical cancer

Region / Country	Female population†		Incidence		Ranking		Mortality	
	10-14 years	15+ years	Cases	ASR‡	All women	15-44 years	Deaths	ASR‡
Americas Continent	38.64	336.49	86532	18.8	4th	2nd	38436	8.1
Caribbean	1.79	14.39	6369	32.6	2nd	1st	3113	16
Antigua & Barbuda	-	-	-	-	-	-	-	-
Bahamas	0.02	0.12	25	16.7	2nd	2nd	9	6.2
Barbados	0.01	0.11	46	24.9	2nd	2nd	18	9.4
Cuba	0.37	4.58	1346	20.2	2nd	1st	567	8.3
Dominica	-	-	-	-	-	-	-	-
Dominican Republic	0.47	2.98	1032	30.8	2nd	2nd	562	17.3
Grenada	-	-	-	-	-	-	-	-
Haiti	0.49	2.75	2774	87.3	1st	1st	1484	48.1
Jamaica	0.14	0.94	383	31.2	2nd	1st	151	12.2
Saint Kitts & Nevis	-	-	-	-	-	-	-	-
Saint Lucia	0.01	0.06	-	-	-	-	-	-
S. Vincent & The Gren.	0.01	0.04	-	-	-	-	-	-
Trinidad & Tobago	0.05	0.52	186	27.1	2nd	2nd	73	10.7
Central America	7.89	51.13	17165	30.6	1st	1st	8124	15
Belize	0.02	0.08	40	52.4	1st	1st	16	23
Costa Rica	0.21	1.53	392	21.5	2nd	1st	210	12
El Salvador	0.37	2.35	1213	45.6	1st	1st	609	23.5
Guatemala	0.80	3.77	1153	30.6	1st	1st	628	17.2
Honduras	0.44	2.19	664	30.6	1st	1st	361	17.2
Mexico	5.57	38.38	12516	29.5	1st	1st	5777	14.1
Nicaragua	0.34	1.70	809	47.2	1st	1st	354	22.3
Panama	0.15	1.12	375	28.2	2nd	1st	166	12.9
South America	17.48	136.09	48328	28.6	2nd	2nd	21402	12.9
Argentina	1.71	14.76	4924	23.2	2nd	2nd	1679	7.8
Bolivia	0.54	2.89	1831	55	1st	1st	987	30.4
Brazil	8.15	69.05	19603	23.4	2nd	2nd	8286	10.2
Chile	0.73	6.24	2163	25.8	2nd	1st	931	10.9
Colombia	2.30	16.15	6815	36.4	1st	1st	3296	18.2
Ecuador	0.68	4.49	1978	38.7	1st	1st	1064	21
Guyana	0.03	0.28	160	47.3	1st	1st	71	22.2
Paraguay	0.36	1.92	1131	53.2	1st	1st	513	26.1
Peru	1.47	9.48	5400	48.2	1st	1st	2663	24.6
Suriname	0.02	0.16	51	27	2nd	1st	26	14
Uruguay	0.14	1.37	392	18.8	3rd	2nd	162	7
Venezuela	1.34	9.22	3845	36	1st	1st	1705	16.8
Northern America	11.49	134.88	14670	7.7	12th	4th	5796	2.3
Canada	1.04	13.51	1502	7.7	11th	2nd	581	2.5
United States	10.45	121.32	13162	7.7	13th	4th	5214	2.3

†Population in millions.

‡ASR: age-standardized rate per 100,000 women.

Estimates were calculated using the direct method and the World population as the reference.

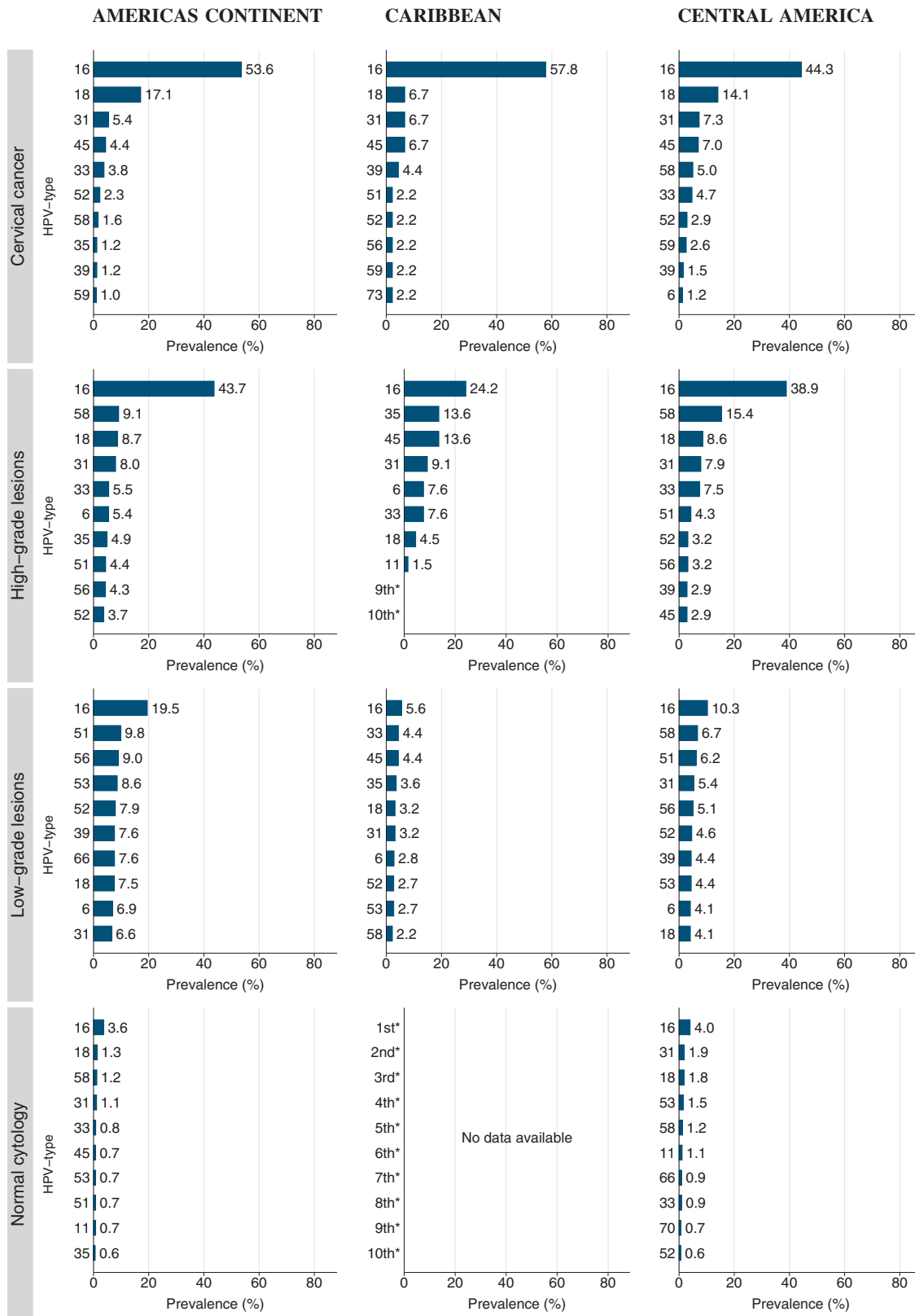
Table 2. Prevalence of HPV in women with normal cytology, precancerous cervical lesions and invasive cervical cancer

Country /Region	Normal cytology		Low-grade lesions†		High-grade lesions‡		Cervical cancer	
	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)
Americas Continent	40399	15.6 (15.2-15.9)	3651	75.8 (74.4-77.2)	1922	83.9 (82.1-85.5)	2813	89 (87.8-90.1)
Caribbean	-	--	248	60.9 (54.5-67.0)	66	80.3 (68.7-89.1)	45	97.8 (88.2-99.9)
Antigua & Barbuda	-	--	-	--	-	--	-	--
Bahamas	-	--	-	--	-	--	-	--
Barbados	-	--	-	--	-	--	-	--
Cuba	-	--	-	--	-	--	45	97.8 (88.2-99.9)
Dominica	-	--	-	--	-	--	-	--
Dominican Republic	-	--	-	--	-	--	-	--
Grenada	-	--	-	--	-	--	-	--
Haiti	-	--	-	--	-	--	-	--
Jamaica	-	--	248	60.9 (54.5-67.0)	66	80.3 (68.7-89.1)	-	--
Saint Kitts & Nevis	-	--	-	--	-	--	-	--
Saint Lucia	-	--	-	--	-	--	-	--
S. Vincent & The Gren.	-	--	-	--	-	--	-	--
Trinidad & Tobago	-	--	-	--	-	--	-	--
Central America	10232	20.5 (19.7-21.3)	390	55.1 (50.0-60.1)	280	86.8 (82.2-90.5)	341	90.3 (86.7-93.2)
Belize	-	--	-	--	-	--	-	--
Costa Rica	7459	22.4 (21.5-23.4)	181	72.9 (65.8-79.3)	108	89.8 (82.5-94.8)	35	97.1 (85.1-99.9)
El Salvador	-	--	-	--	-	--	-	--
Guatemala	-	--	-	--	-	--	-	--
Honduras	438	38.8 (34.2-43.6)	44	47.7 (32.5-63.3)	81	79 (68.5-87.3)	104	79.8 (70.8-87.0)
Mexico	2335	11.0 (9.7-12.3)	165	37.6 (30.2-45.4)	91	90.1 (82.1-95.4)	129	91.5 (85.3-95.7)
Nicaragua	-	--	-	--	-	--	-	--
Panama	-	--	-	--	-	--	73	100 (95.1-100.0)
South America	4354	14.3 (13.3-15.4)	548	79 (75.4-82.4)	487	80.1 (76.3-83.5)	1041	91.1 (89.2-92.7)
Argentina	843	15.4 (13.0-18.0)	334	82.9 (78.5-86.8)	207	94.7 (90.7-97.3)	131	97.7 (93.5-99.5)
Bolivia	-	--	-	--	-	--	49	95.9 (86.0-99.5)
Brazil	194	17.0 (12.0-23.1)	89	71.9 (61.4-80.9)	155	74.2 (66.6-80.9)	347	86.2 (82.1-89.6)
Chile	913	11.2 (9.2-13.4)	-	--	-	--	80	98.8 (93.2-100.0)
Colombia	2138	14.5 (13.0-16.0)	70	55.7 (43.3-67.6)	125	63.2 (54.1-71.6)	125	80 (71.9-86.6)
Ecuador	-	--	-	--	-	--	-	--
Guyana	-	--	-	--	-	--	-	--
Paraguay	91	19.8 (12.2-29.4)	55	96.4 (87.5-99.6)	-	--	113	96.5 (91.2-99.0)
Peru	175	17.7 (12.4-24.2)	-	--	-	--	196	94.9 (90.8-97.5)
Suriname	-	--	-	--	-	--	-	--
Uruguay	-	--	-	--	-	--	-	--
Venezuela	-	--	-	--	-	--	-	--
Northern America	25813	13.8 (13.4-14.3)	2465	79.9 (78.3-81.5)	1089	85 (82.8-87.1)	1386	86.8 (84.9-88.5)
Canada	2010	21.7 (19.9-23.6)	170	87.6 (81.7-92.2)	58	98.3 (90.8-100.0)	172	83.7 (77.3-88.9)
United States	23685	13.1 (12.6-13.5)	2295	79.3 (77.6-81.0)	1001	84.9 (82.5-87.1)	1182	87.3 (85.3-89.2)

†Low-grade lesions: LSIL or CIN-1

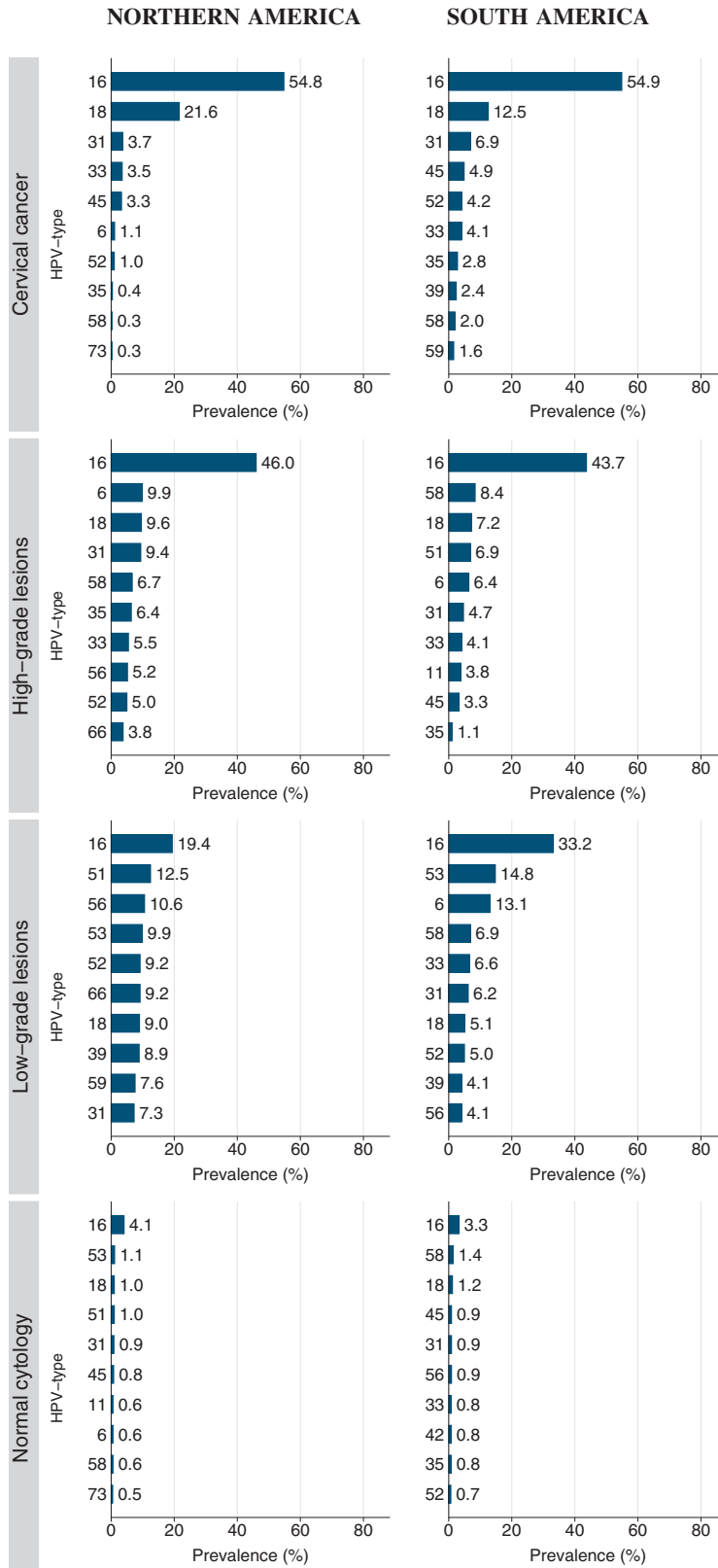
‡High-grade lesions: CIN-2, CIN-3, CIS or HSIL

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in America



*No data available. No more types than shown were tested or were positive.

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in America (continued)



Sources of data: see Section III.Methods or visit <http://www.who.int/hpvcntr>

ASIA

Asia has a population of 1390.4 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 265,884 women are diagnosed with cervical cancer and 142,735 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women between 15 and 44 years of age as well as women of all ages in Asia.

In Asia, about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers in Asia are attributed to HPVs 16 or 18.

Fig. 1. Age-standardized (World) incidence rates of cervical cancer per 100,000 women in Asia

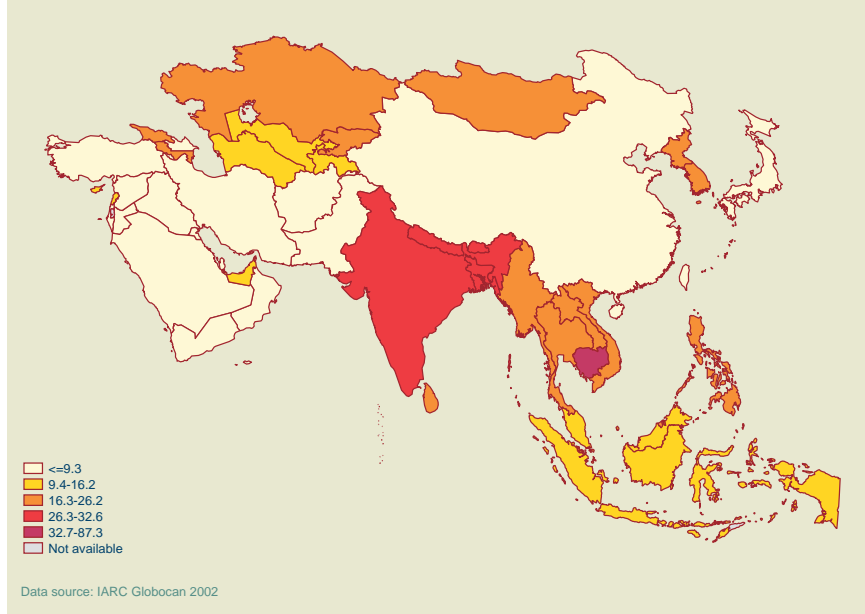


Fig. 2. Age-specific incidence rates of cervical cancer in Asia and the World

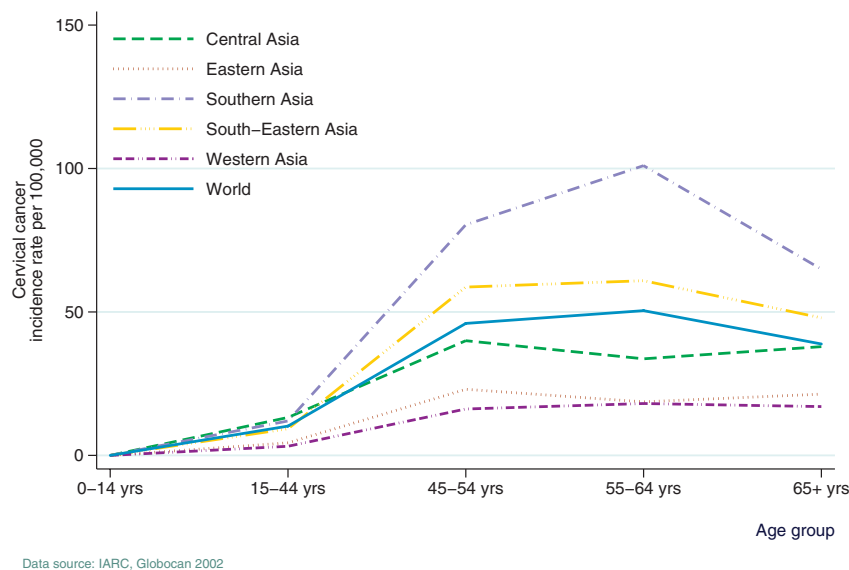


Table 1. Female population and estimates of incidence and mortality for cervical cancer

Region / Country	Female population†		Incidence		Ranking		Mortality	
	10-14 years	15+ years	Cases	ASR‡	All women	15-44 years	Deaths	ASR‡
Asia Continent	178.26	1390.40	265884	15.4	2nd	2nd	142735	8.4
Central Asia	3.20	20.65	4133	15.4	2nd	1st	1459	5.8
Kazakhstan	0.62	6.04	1955	21.6	2nd	1st	729	7.9
Kyrgyzstan	0.29	1.86	522	21.6	1st	1st	186	7.9
Tajikistan	0.42	2.03	232	9.9	3rd	1st	70	3.5
Turkmenistan	0.28	1.69	274	13.5	2nd	1st	96	5.2
Uzbekistan	1.58	9.03	1149	10.7	2nd	2nd	379	3.9
Eastern Asia	54.22	595.98	61132	7.4	7th	3rd	31314	3.7
China	48.37	506.73	45689	6.8	7th	5th	25561	3.8
DPR Korea	0.98	8.50	2150	17.9	3rd	2nd	558	4.7
Japan	2.93	56.77	7772	8	7th	2nd	3573	2.8
Mongolia	0.14	0.93	171	18	3rd	1st	92	10.1
Republic of Korea	1.60	19.62	4949	17.9	3rd	2nd	1327	4.7
Southern Asia	82.15	507.07	153535	26.6	1st	2nd	85192	15.4
Afghanistan	1.84	7.73	511	6.9	4th	3rd	254	3.6
Bangladesh	8.00	44.78	12931	27.6	1st	1st	6561	14.8
Bhutan	0.13	0.66	200	26.4	1st	1st	105	14.1
India	56.22	365.71	132082	30.7	1st	1st	74118	17.8
Iran	3.95	24.54	1118	4.4	5th	5th	581	2.4
Maldives	0.02	0.09	-	-	-	-	-	-
Nepal	1.64	8.54	2185	26.4	1st	1st	1129	14.1
Pakistan	9.49	47.27	2962	6.5	4th	12th	1605	3.6
Sri Lanka	0.86	7.74	1544	17.2	2nd	2nd	840	9.5
South-Eastern Asia	27.49	197.82	42538	18.7	2nd	2nd	22594	10.2
Brunei	0.02	0.13	26	18.7	2nd	2nd	13	9.6
Cambodia	0.85	4.71	1768	38.7	1st	1st	949	21.6
Indonesia	10.24	80.57	15050	15.7	2nd	2nd	7566	8.1
Laos	0.36	1.77	317	16.8	1st	1st	159	8.8
Malaysia	1.33	8.49	1492	15.7	2nd	2nd	766	8.4
Myanmar	2.67	18.08	5017	24.6	1st	1st	2594	13.1
Philippines	4.69	26.98	6000	20.9	2nd	2nd	4349	15.6
Singapore	0.16	1.74	323	13.2	4th	3rd	205	8.4
Thailand	2.60	25.14	6243	19.8	1st	1st	2620	8.4
Timor-Leste	0.05	0.26	-	-	-	-	-	-
Viet Nam	4.51	29.95	6224	20.2	1st	2nd	3334	11.2
Western Asia	11.20	68.88	4456	5.8	4th	3rd	2118	2.9
Armenia	0.13	1.31	380	16.8	2nd	2nd	130	5.6
Azerbaijan	0.43	3.28	345	8.2	5th	2nd	113	2.8
Bahrain	0.03	0.22	17	8.5	4th	3rd	9	4.8
Cyprus	0.03	0.35	53	11.6	4th	2nd	25	5.3
Georgia	0.17	1.95	580	17.5	2nd	2nd	225	5.9
Iraq	1.73	8.42	252	3.3	12th	7th	129	1.8
Israel	0.28	2.49	160	4.5	14th	6th	82	2.3
Jordan	0.31	1.71	60	4.2	8th	9th	32	2.3
Kuwait	0.10	0.75	34	6.1	4th	3rd	17	3.4
Lebanon	0.17	1.32	262	15.4	2nd	2nd	131	8
Oman	0.14	0.69	46	6.9	3rd	4th	25	3.9
Qatar	0.02	0.18	5	3.9	12th	8th	3	2.2
Saudi Arabia	1.41	6.82	271	4.6	8th	8th	143	2.5
Syria	1.06	6.02	118	2	14th	10th	55	1
Turkey	3.40	25.83	1364	4.5	8th	7th	726	2.4
United Arab Emirates	0.16	0.95	73	9.9	2nd	3rd	36	5.2
Yemen	1.39	5.58	370	8	3rd	9th	206	4.6

†Population in millions.

‡ASR: age-standardized rate per 100,000 women.

Estimates were calculated using the direct method and the World population as the reference.

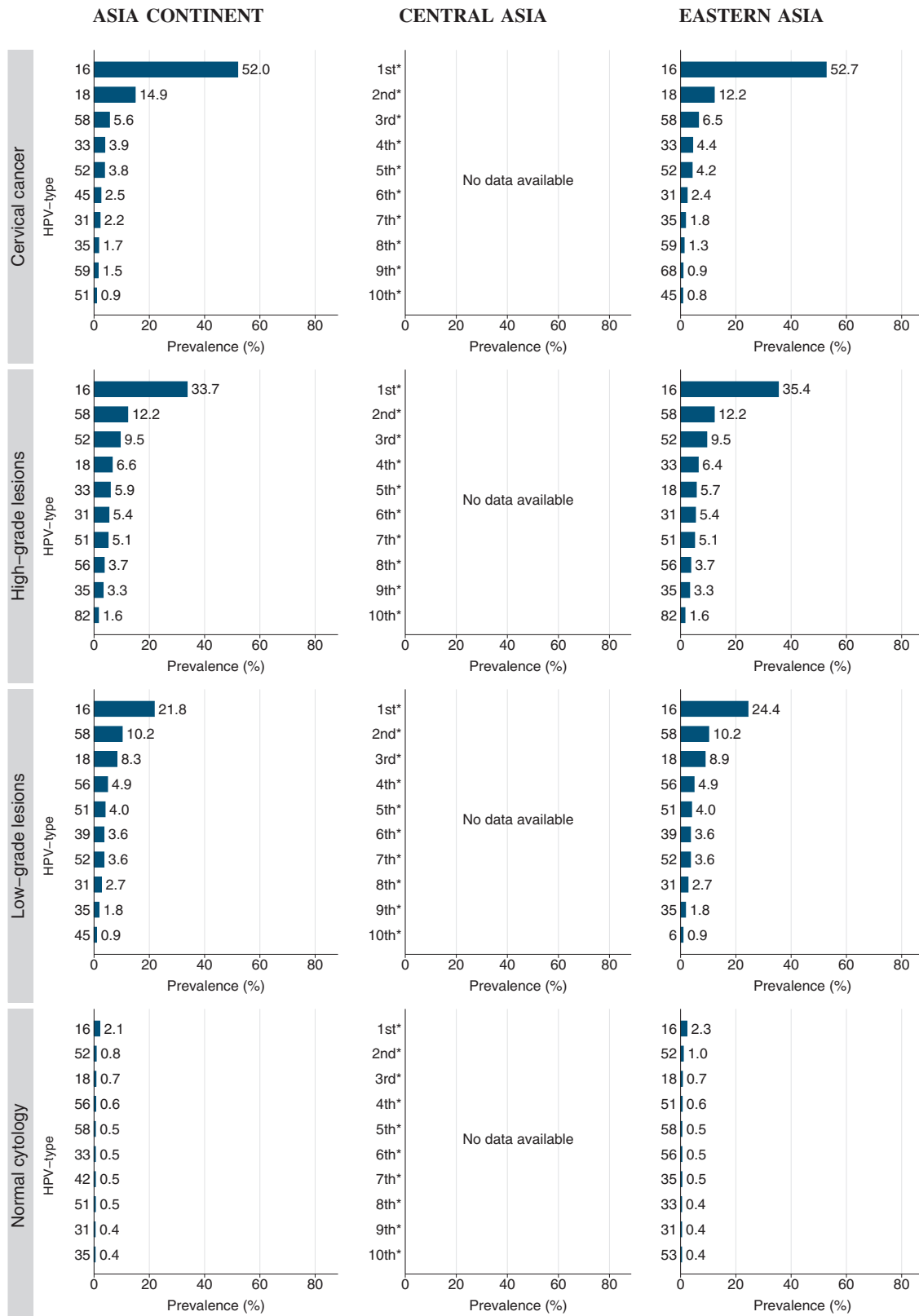
Table 2. Prevalence of HPV in women with normal cytology, precancerous cervical lesions and invasive cervical cancer

Country /Region	Normal cytology		Low-grade lesions†		High-grade lesions‡		Cervical cancer	
	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)
Asia Continent	41125	8.3 (8.0-8.5)	252	67.1 (60.9-72.8)	1364	78 (75.7-80.2)	5652	85.8 (84.9-86.7)
Central Asia	-	--	-	--	-	--	-	--
Kazakhstan	-	--	-	--	-	--	-	--
Kyrgyzstan	-	--	-	--	-	--	-	--
Tajikistan	-	--	-	--	-	--	-	--
Turkmenistan	-	--	-	--	-	--	-	--
Uzbekistan	-	--	-	--	-	--	-	--
Eastern Asia	17767	10.6 (10.1-11.0)	225	71.1 (64.7-76.9)	1132	81.3 (78.9-83.5)	4176	83.8 (82.7-84.9)
China	2044	13.6 (12.1-15.1)	51	64.7 (50.1-77.6)	416	66.6 (61.8-71.1)	2698	84.1 (82.7-85.5)
DPRKorea	-	--	-	--	-	--	-	--
Japan	12599	7.5 (7.0-7.9)	-	--	338	91.4 (87.9-94.2)	1142	81.6 (79.2-83.8)
Mongolia	-	--	-	--	-	--	-	--
Republic of Korea	3124	21.0 (19.6-22.5)	174	73 (65.7-79.4)	378	88.4 (84.7-91.4)	336	88.7 (84.8-91.9)
Southern Asia	19164	6.6 (6.2-6.9)	-	--	25	64 (42.5-82.0)	386	90.2 (86.7-92.9)
Afghanistan	-	--	-	--	-	--	-	--
Bangladesh	-	--	-	--	-	--	-	--
Bhutan	-	--	-	--	-	--	-	--
India	19164	6.6 (6.2-6.9)	-	--	25	64 (42.5-82.0)	275	93.1 (89.4-95.8)
Iran	-	--	-	--	-	--	111	82.9 (74.6-89.4)
Maldives	-	--	-	--	-	--	-	--
Nepal	-	--	-	--	-	--	-	--
Pakistan	-	--	-	--	-	--	-	--
Sri Lanka	-	--	-	--	-	--	-	--
South-Eastern Asia	4194	6.2 (5.5-6.9)	27	33.3 (16.5-54.0)	207	61.8 (54.8-68.5)	1090	92.1 (90.3-93.6)
Brunei	-	--	-	--	-	--	-	--
Cambodia	-	--	-	--	-	--	-	--
Indonesia	-	--	-	--	-	--	121	97.5 (92.9-99.5)
Laos	-	--	-	--	-	--	-	--
Malaysia	-	--	-	--	-	--	23	95.7 (78.1-99.9)
Myanmar	-	--	-	--	-	--	-	--
Philippines	377	9.3 (6.6-12.7)	-	--	-	--	356	93.5 (90.5-95.9)
Singapore	-	--	-	--	-	--	-	--
Thailand	1920	6.3 (5.3-7.5)	27	33.3 (16.5-54.0)	207	61.8 (54.8-68.5)	590	90 (87.3-92.3)
Timor-Leste	-	--	-	--	-	--	-	--
Viet Nam	1897	5.4 (4.5-6.5)	-	--	-	--	-	--
Western Asia	-	--	-	--	-	--	-	--
Armenia	-	--	-	--	-	--	-	--
Azerbaijan	-	--	-	--	-	--	-	--
Bahrain	-	--	-	--	-	--	-	--
Cyprus	-	--	-	--	-	--	-	--
Georgia	-	--	-	--	-	--	-	--
Iraq	-	--	-	--	-	--	-	--
Israel	-	--	-	--	-	--	-	--
Jordan	-	--	-	--	-	--	-	--
Kuwait	-	--	-	--	-	--	-	--
Lebanon	-	--	-	--	-	--	-	--
Oman	-	--	-	--	-	--	-	--
Qatar	-	--	-	--	-	--	-	--
Saudi Arabia	-	--	-	--	-	--	-	--
Syria	-	--	-	--	-	--	-	--
Turkey	-	--	-	--	-	--	-	--
United Arab Emirates	-	--	-	--	-	--	-	--
Yemen	-	--	-	--	-	--	-	--

†Low-grade lesions: LSIL or CIN-1

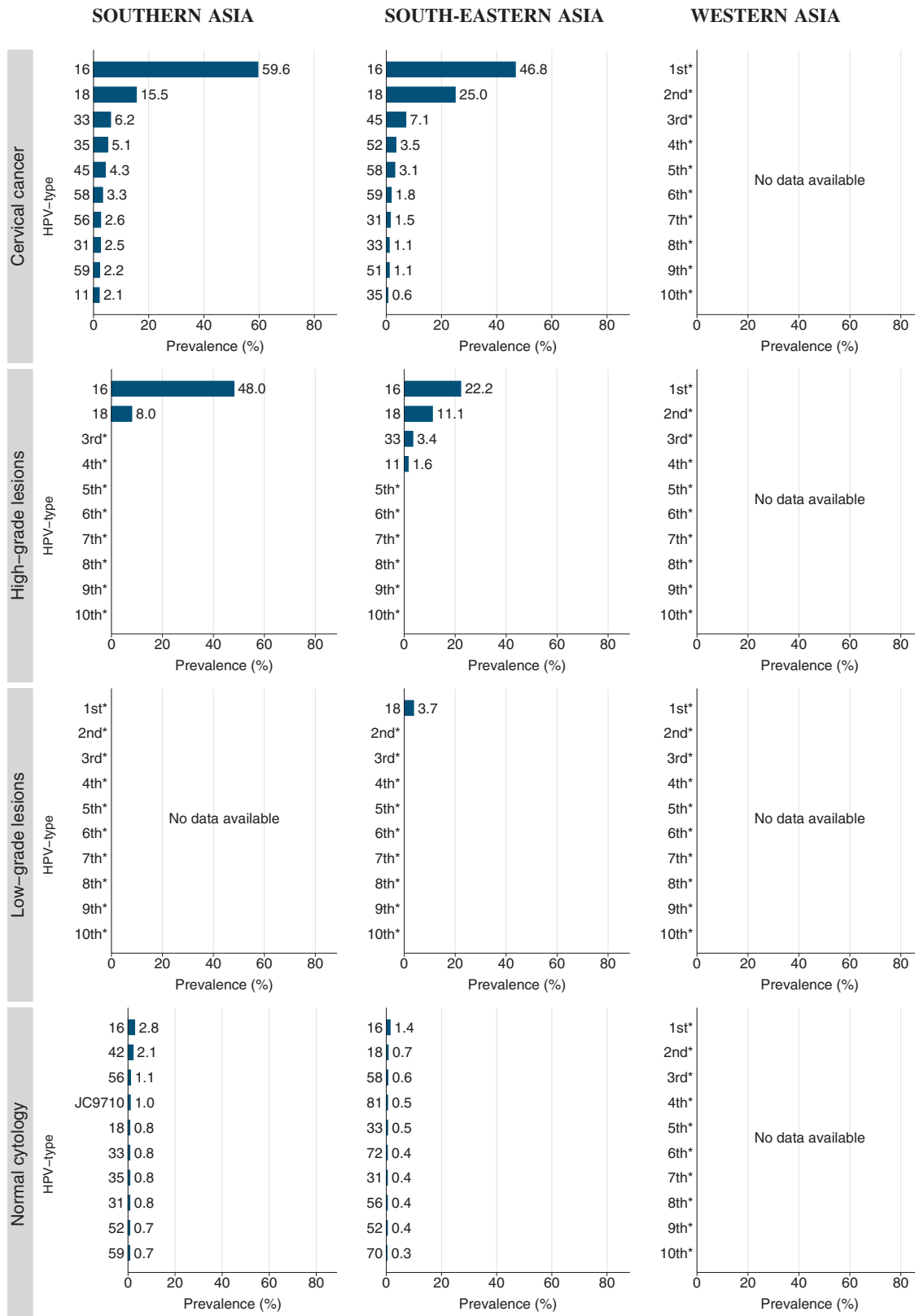
‡High-grade lesions: CIN-2, CIN-3, CIS or HSIL

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Asia



*No data available. No more types than shown were tested or were positive.

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Assia (continued)



*No data available. No more types than shown were tested or were positive.

EUROPE

Europe has a population of 321.8 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 59,931 women are diagnosed with cervical cancer and 29,812 die from the disease. Cervical cancer ranks as the 7th most frequent cancer in women in Europe, and the 2nd most frequent among women between 15 and 44 years of age.

In Europe, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 73.3% of invasive cervical cancers in Europe are attributed to HPVs 16 or 18.

Fig. 1. Age-standardized (World) incidence rates of cervical cancer per 100,000 women in Europe

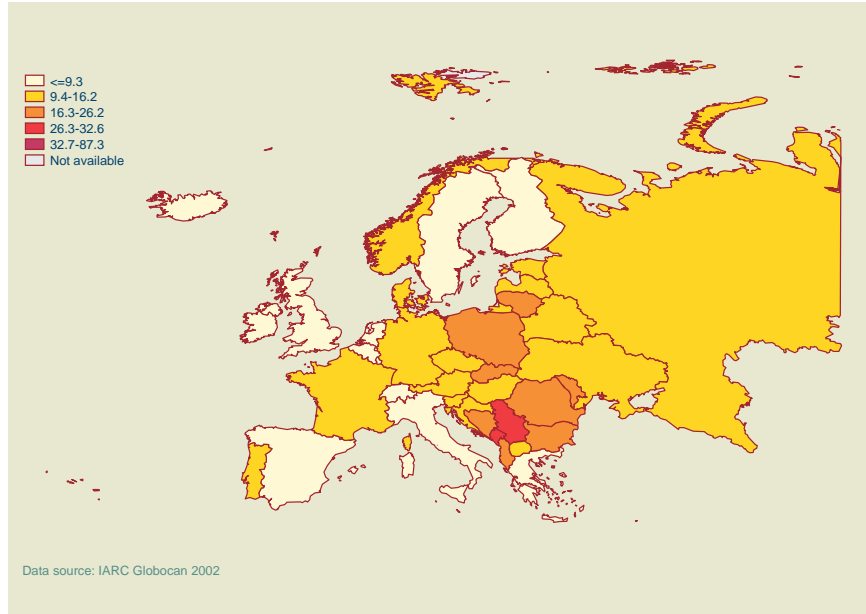


Fig. 2. Age-specific incidence rates of cervical cancer in Europe and the World

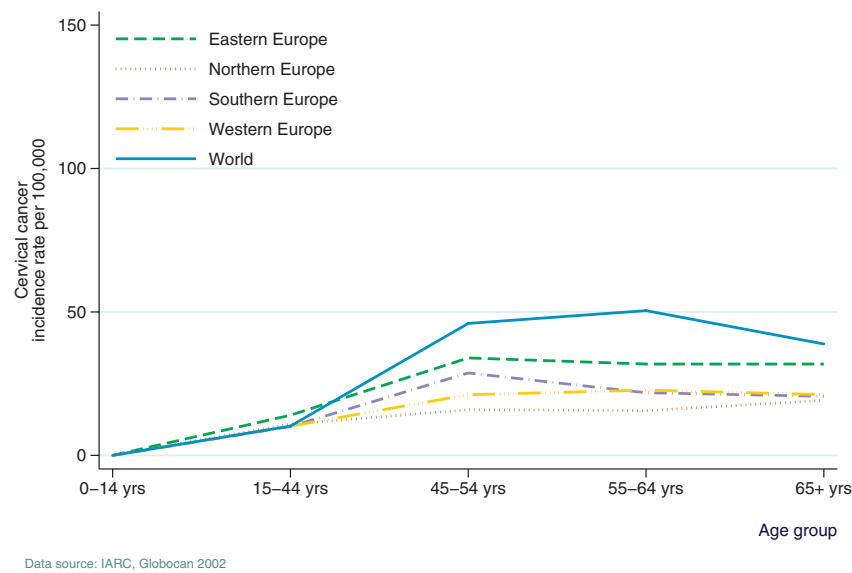


Table 1. Female population and estimates of incidence and mortality for cervical cancer

Region / Country	Female population†		Incidence		Ranking		Mortality	
	10-14 years	15+ years	Cases	ASR‡	All women	15-44 years	Deaths	ASR‡
Europe Continent	20.38	321.76	59931	11.9	7th	2nd	29812	5
Eastern Europe	8.56	135.29	30897	14.5	4th	2nd	17198	7.1
Belarus	0.29	4.48	1086	13.1	5th	3rd	436	5.2
Bulgaria	0.20	3.47	979	18.7	3rd	2nd	506	8
Czech Republic	0.29	4.52	1160	16.2	6th	2nd	476	5.5
Hungary	0.30	4.51	1042	15.7	5th	2nd	551	6.7
Poland	1.20	16.78	4901	18.4	3rd	2nd	2278	7.8
Republic of Moldova	0.16	1.82	476	18	3rd	2nd	220	7.8
Romania	0.59	9.50	3448	23.9	2nd	1st	2094	13
Russian Federation	3.95	66.07	12215	11.9	5th	2nd	7784	6.5
Slovakia	0.18	2.34	654	18.5	4th	2nd	242	6.1
Ukraine	1.41	21.81	4885	14.1	5th	2nd	2578	6.4
Northern Europe	3.00	40.61	5647	9	10th	2nd	2814	3.6
Denmark	0.17	2.25	439	12.6	7th	2nd	230	5
Estonia	0.04	0.62	156	15.5	6th	2nd	74	6.6
Finland	0.16	2.23	164	4.3	15th	4th	81	1.8
Iceland	0.01	0.12	13	8.3	10th	3rd	10	4.7
Ireland	0.13	1.68	164	7.2	10th	2nd	88	3.5
Latvia	0.07	1.09	291	12.9	5th	3rd	165	7.4
Lithuania	0.12	1.55	446	17.5	5th	2nd	256	9
Norway	0.15	1.88	291	10.4	8th	2nd	125	3.5
Sweden	0.30	3.79	485	8.2	10th	3rd	249	3.1
United Kingdom	1.84	25.30	3181	8.3	11th	2nd	1529	3.1
Southern Europe	3.72	65.48	10641	10.7	7th	2nd	4131	3.3
Albania	0.15	1.17	389	25.2	2nd	2nd	146	9.8
Andorra	-	-	-	-	-	-	-	-
Bosnia & Herzegovina	0.11	1.70	545	21.3	3rd	2nd	227	8
Croatia	0.13	2.02	431	13.3	7th	2nd	209	5
Greece	0.26	4.85	578	7.7	9th	2nd	239	2.5
Italy	1.37	25.94	3418	8.1	10th	3rd	1186	2.2
Malta	0.01	0.17	14	4.8	14th	4th	6	1.6
Montenegro*	0.33	4.35	1816	27.3	2nd	2nd	815	10.1
Portugal	0.27	4.61	956	13.5	4th	2nd	378	4.5
San Marino	-	-	-	-	-	-	-	-
Serbia*	0.33	4.35	1816	27.3	2nd	2nd	815	10.1
Slovenia	0.05	0.87	207	16.1	5th	2nd	79	4.7
Spain	0.96	18.91	2103	7.6	7th	2nd	739	2.2
Macedonia, TFYR	0.07	0.83	167	13.9	4th	2nd	99	7.6
Western Europe	5.10	80.37	12744	10	8th	2nd	5671	3.4
Austria	0.23	3.57	610	10.9	9th	3rd	295	4.1
Belgium	0.30	4.45	667	9.3	7th	2nd	326	3.4
France	1.76	25.67	4149	9.8	7th	3rd	1647	3.1
Germany	2.08	36.55	6133	10.8	8th	2nd	2967	3.8
Luxembourg	0.01	0.19	24	8.7	11th	3rd	13	3.9
Monaco	-	-	-	-	-	-	-	-
Netherlands	0.49	6.76	753	7.3	11th	3rd	307	2.3
Switzerland	0.22	3.16	389	8.3	10th	3rd	108	1.7

*Estimates are aggregated for Serbia and Montenegro.

†Population in millions.

‡ASR: age-standardized rate per 100,000 women.

Estimates were calculated using the direct method and the World population as the reference.

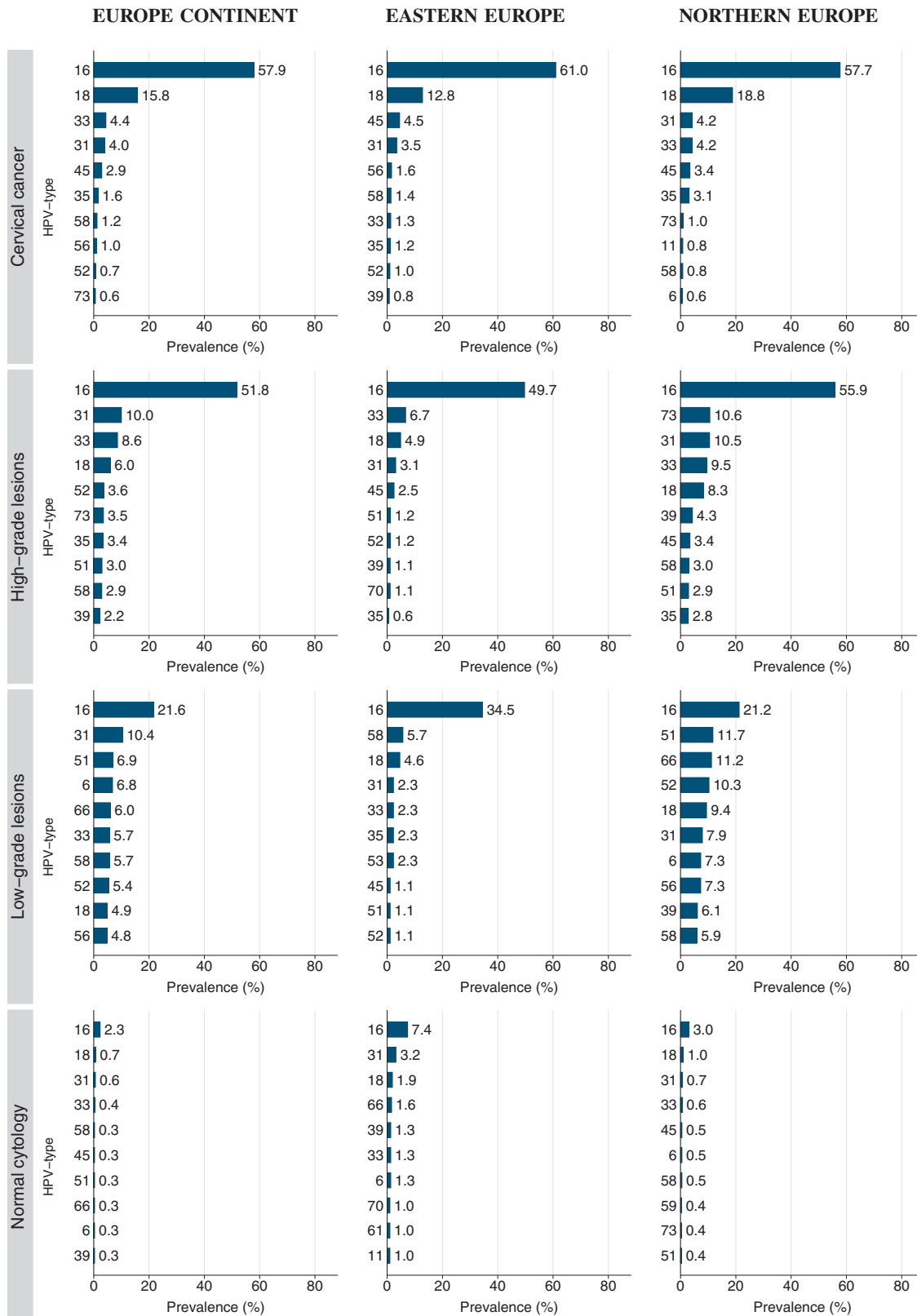
Table 2. Prevalence of HPV in women with normal cytology, precancerous cervical lesions and invasive cervical cancer

Country /Region	Normal cytology		Low-grade lesions†		High-grade lesions‡		Cervical cancer	
	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)	Women tested	HPV Prev % (95% CI)
Europe Continent	70129	6.6 (6.4-6.8)	4436	69.2 (67.8-70.5)	3464	88 (86.9-89.1)	4341	85.8 (84.7-86.8)
Eastern Europe	309	29.1 (24.1-34.5)	87	52.9 (41.9-63.7)	163	75.5 (68.1-81.9)	459	84.5 (80.9-87.7)
Belarus	-	--	-	--	-	--	-	--
Bulgaria	-	--	-	--	-	--	-	--
Czech Republic	-	--	87	52.9 (41.9-63.7)	88	58 (47.0-68.4)	49	73.5 (58.9-85.1)
Hungary	-	--	-	--	75	96 (88.8-99.2)	47	97.9 (88.7-99.9)
Poland	-	--	-	--	-	--	183	68.9 (61.6-75.5)
Republic of Moldova	-	--	-	--	-	--	-	--
Romania	-	--	-	--	-	--	-	--
Russian Federation	309	29.1 (24.1-34.5)	-	--	-	--	180	100 (98.0-100.0)
Slovakia	-	--	-	--	-	--	-	--
Ukraine	-	--	-	--	-	--	-	--
Northern Europe	16235	8.0 (7.5-8.4)	646	85.3 (82.3-87.9)	987	85.8 (83.5-87.9)	2152	86.2 (84.7-87.7)
Denmark	1728	15.2 (13.5-16.9)	-	--	34	91.2 (76.3-98.1)	84	76.2 (65.7-84.8)
Estonia	-	--	-	--	-	--	-	--
Finland	-	--	-	--	-	--	460	88 (84.7-90.9)
Iceland	-	--	-	--	-	--	-	--
Ireland	-	--	-	--	111	90.1 (83.0-94.9)	39	87.2 (72.6-95.7)
Latvia	-	--	-	--	-	--	221	82.8 (77.2-87.5)
Lithuania	-	--	-	--	29	79.3 (60.3-92.0)	191	92.7 (88.0-95.9)
Norway	-	--	-	--	67	79.1 (67.4-88.1)	361	98.3 (96.4-99.4)
Sweden	617	5.8 (4.1-8.0)	186	76.3 (69.6-82.3)	383	80.4 (76.1-84.3)	562	75.4 (71.7-79.0)
United Kingdom	13890	7.1 (6.7-7.6)	460	88.9 (85.7-91.6)	363	91.5 (88.1-94.1)	234	91.5 (87.1-94.7)
Southern Europe	4884	5.7 (5.0-6.3)	3391	66.6 (64.9-68.1)	650	81.1 (77.9-84.0)	732	83.7 (80.9-86.3)
Albania	-	--	-	--	-	--	-	--
Andorra	-	--	-	--	-	--	-	--
Bosnia & Herzegovina	-	--	-	--	-	--	-	--
Croatia	-	--	1211	51.6 (48.8-54.5)	158	75.3 (67.8-81.8)	-	--
Greece	2010	3.6 (2.9-4.5)	51	90.2 (78.6-96.7)	78	88.5 (79.2-94.6)	151	72.2 (64.3-79.2)
Italy	1698	10.3 (8.9-11.9)	1713	72.4 (70.3-74.6)	125	85.6 (78.2-91.2)	279	92.1 (88.3-95.0)
Malta	-	--	-	--	-	--	-	--
Montenegro	-	--	-	--	-	--	-	--
Portugal	-	--	416	82.9 (79.0-86.4)	132	91.7 (85.6-95.8)	60	98.3 (91.1-100.0)
San Marino	-	--	-	--	-	--	-	--
Serbia	-	--	-	--	-	--	-	--
Slovenia	-	--	-	--	-	--	-	--
Spain	1176	2.4 (1.6-3.4)	-	--	157	70.7 (62.9-77.7)	242	77.7 (71.9-82.8)
Macedonia, TFYR ^c	-	--	-	--	-	--	-	--
Western Europe	48701	6.1 (5.9-6.4)	312	68.6 (63.1-73.7)	1664	93.3 (92.0-94.5)	998	86.8 (84.5-88.8)
Austria	-	--	-	--	-	--	200	90.5 (85.6-94.2)
Belgium	287	24.0 (19.2-29.4)	58	69 (55.5-80.5)	354	90.7 (87.2-93.5)	115	87.8 (80.4-93.2)
France	9070	12.1 (11.5-12.8)	40	60 (43.3-75.1)	53	92.5 (81.8-97.9)	403	83.1 (79.1-86.7)
Germany	12436	6.3 (5.9-6.8)	179	64.8 (57.3-71.8)	526	89.2 (86.2-91.7)	68	83.8 (72.9-91.6)
Luxembourg	-	--	-	--	-	--	-	--
Monaco	-	--	-	--	-	--	-	--
Netherlands	26908	3.9 (3.6-4.1)	35	97.1 (85.1-99.9)	731	97.7 (96.3-98.6)	212	90.6 (85.8-94.1)
Switzerland	-	--	-	--	-	--	-	--

†Low-grade lesions: LSIL or CIN-1

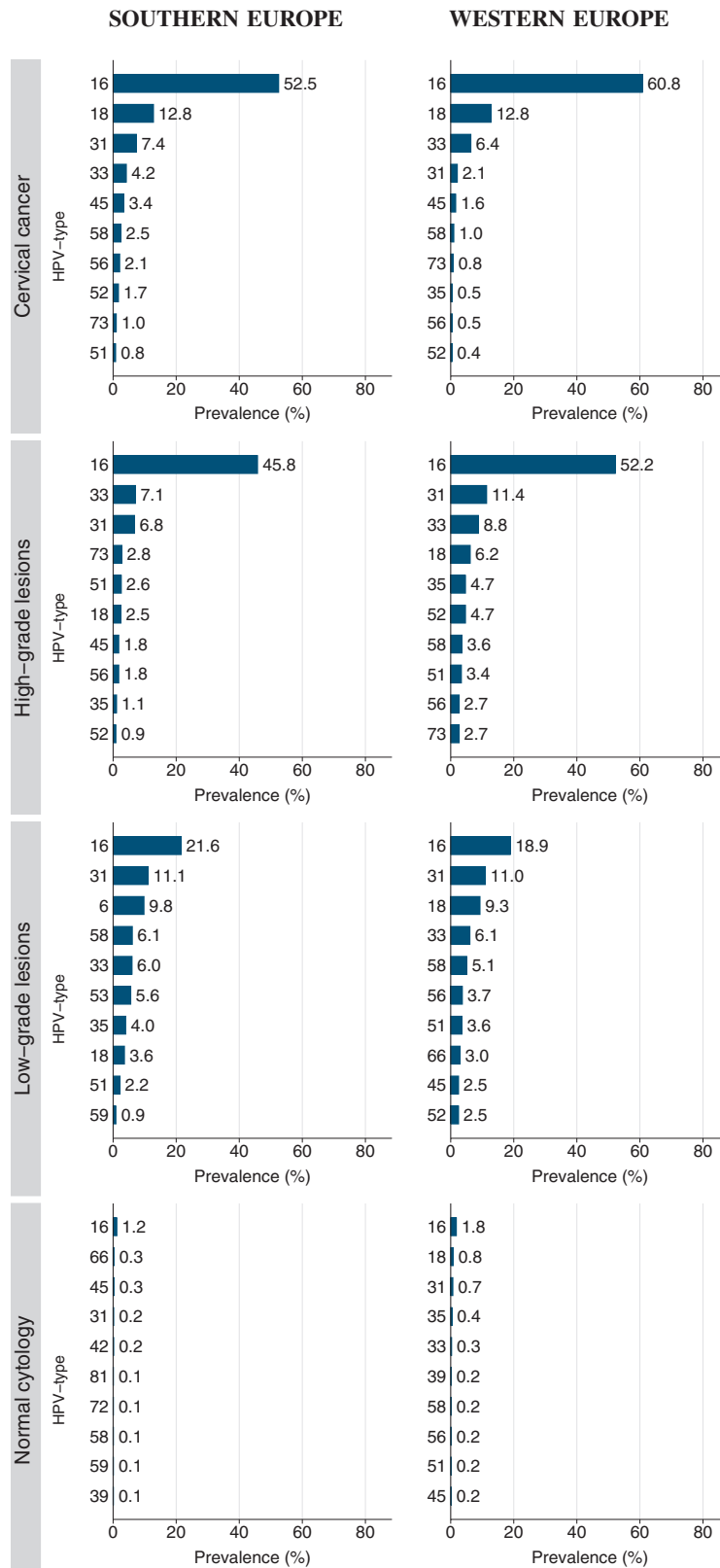
‡High-grade lesions: CIN-2, CIN-3, CIS or HSIL

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Europe



Sources of data: see Section III.Methods or visit <http://www.who.int/hpvcntr>

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Europe (continued)



Sources of data: see Section III.Methods or visit <http://www.who.int/hpvcentre>

OCEANIA

Oceania has a population of 12.6 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2002 women are diagnosed with cervical cancer and 844 die from the disease. Cervical cancer ranks as the 6th most frequent cancer in women in Oceania, and the 3rd most frequent among women between 15 and 44 years of age.

In Oceania, about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Fig. 1. Age-standardized (World) incidence rates of cervical cancer per 100,000 women in Oceania

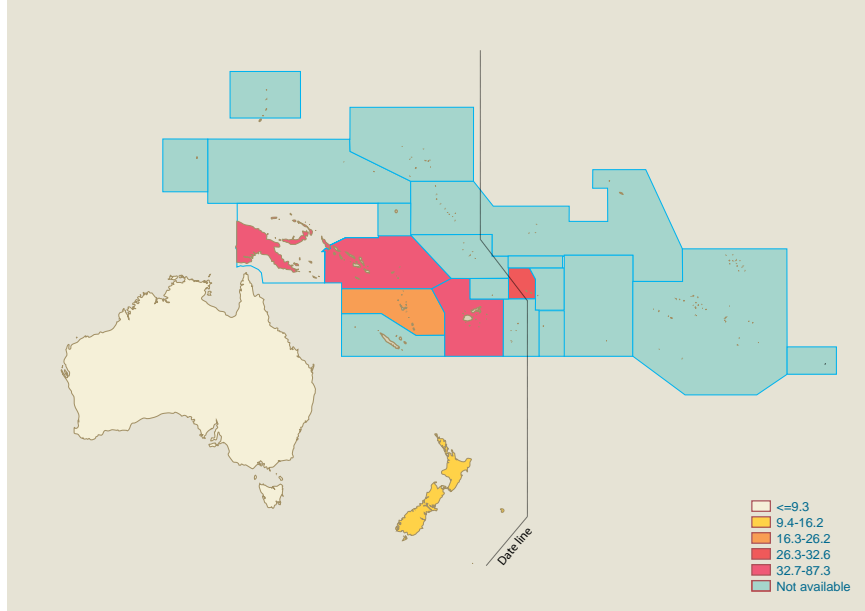
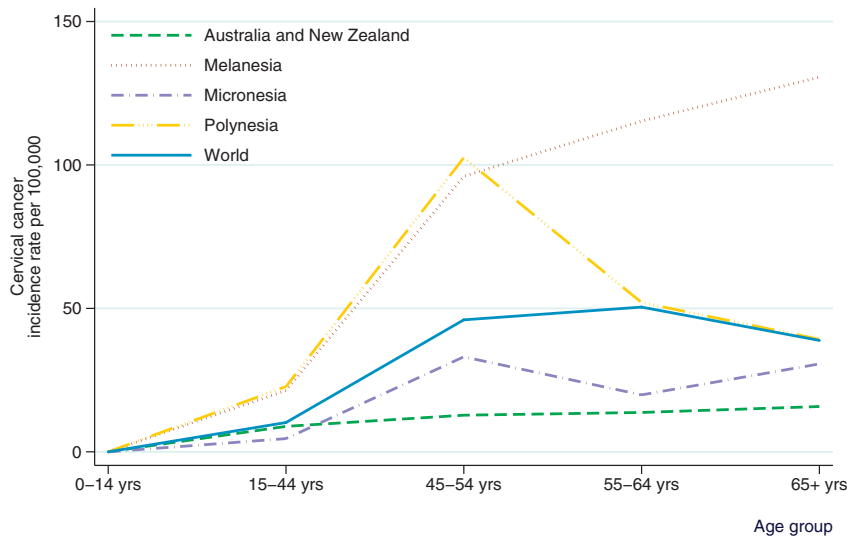


Fig. 2. Age-specific incidence rates of cervical cancer in Oceania and the World



Data source: IARC, Globocan 2002

Table 1. Female population and estimates of incidence and mortality for cervical cancer

Region / Country	Female population [†]		Incidence		Ranking		Mortality	
	10-14 years	15+ years	Cases	ASR [‡]	All women	15-44 years	Deaths	ASR [‡]
Oceania Continent	1.34	12.58	2002	11.5	6th	3rd	844	4.6
Australia & New Zealand	0.82	9.91	1063	7.4	10th	3rd	330	2
Australia	0.68	8.27	835	6.9	11th	3rd	249	1.7
New Zealand	0.14	1.63	228	10	8th	3rd	82	3.2
Melanesia	0.46	2.28	850	38.1	1st	1st	466	21.7
Fiji	0.04	0.29	113	33.4	1st	1st	61	18.7
Papua New Guinea	0.36	1.70	637	40.4	1st	1st	341	22.6
Solomon Islands	0.03	0.14	58	42.8	1st	1st	31	23.9
Vanuatu	0.01	0.06	14	21.7	2nd	2nd	8	12.1
Micronesia	0.03	0.19	19	9.4	4th	3rd	10	5.2
Kiribati	-	-	-	-	-	-	-	-
Marshall Islands	-	-	-	-	-	-	-	-
Micronesia	0.01	0.03	-	-	-	-	-	-
Nauru	-	-	-	-	-	-	-	-
Palau	-	-	-	-	-	-	-	-
Polynesia	0.03	0.21	72	28	2nd	1st	38	15
Cook Islands	-	-	-	-	-	-	-	-
Niue	-	-	-	-	-	-	-	-
Samoa	0.01	0.05	16	28	2nd	1st	8	15
Tonga	0.01	0.03	-	-	-	-	-	-
Tuvalu	-	-	-	-	-	-	-	-

[†]Population in millions.

[‡]ASR: age-standardized rate per 100,000 women.

Estimates were calculated using the direct method and the World population as the reference.

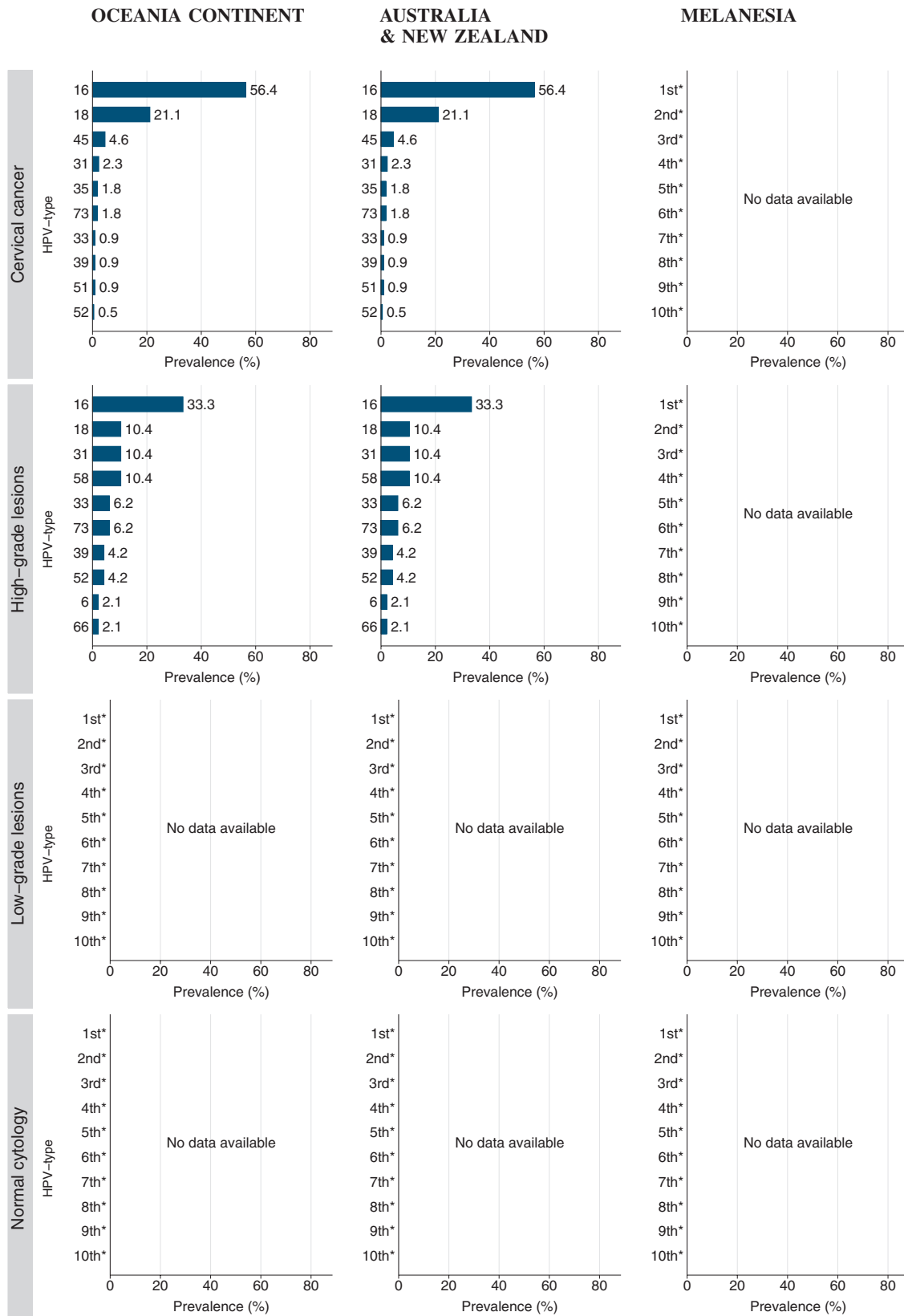
Table 2. Prevalence of HPV in women with normal cytology, precancerous cervical lesions and invasive cervical cancer

Country /Region	Normal cytology		Low-grade lesions†		High-grade lesions‡		Cervical cancer	
	Women	HPV Prev	Women	HPV Prev	Women	HPV Prev	Women	HPV Prev
	tested	% (95% CI)	tested	% (95% CI)	tested	% (95% CI)	tested	% (95% CI)
Oceania Continent	-	--	-	--	48	95.8 (85.7-99.5)	450	88.4 (85.1-91.2)
Australia & New Zealand	-	--	-	--	48	95.8 (85.7-99.5)	450	88.4 (85.1-91.2)
Australia	-	--	-	--	48	95.8 (85.7-99.5)	450	88.4 (85.1-91.2)
New Zealand	-	--	-	--	-	--	-	--
Melanesia	-	--	-	--	-	--	-	--
Fiji	-	--	-	--	-	--	-	--
Papua New Guinea	-	--	-	--	-	--	-	--
Solomon Islands	-	--	-	--	-	--	-	--
Vanuatu	-	--	-	--	-	--	-	--
Micronesia	-	--	-	--	-	--	-	--
Kiribati	-	--	-	--	-	--	-	--
Marshall Islands	-	--	-	--	-	--	-	--
Micronesia	-	--	-	--	-	--	-	--
Nauru	-	--	-	--	-	--	-	--
Palau	-	--	-	--	-	--	-	--
Polynesia	-	--	-	--	-	--	-	--
Cook Islands	-	--	-	--	-	--	-	--
Niue	-	--	-	--	-	--	-	--
Samoa	-	--	-	--	-	--	-	--
Tonga	-	--	-	--	-	--	-	--
Tuvalu	-	--	-	--	-	--	-	--

†Low-grade lesions: LSIL or CIN-1

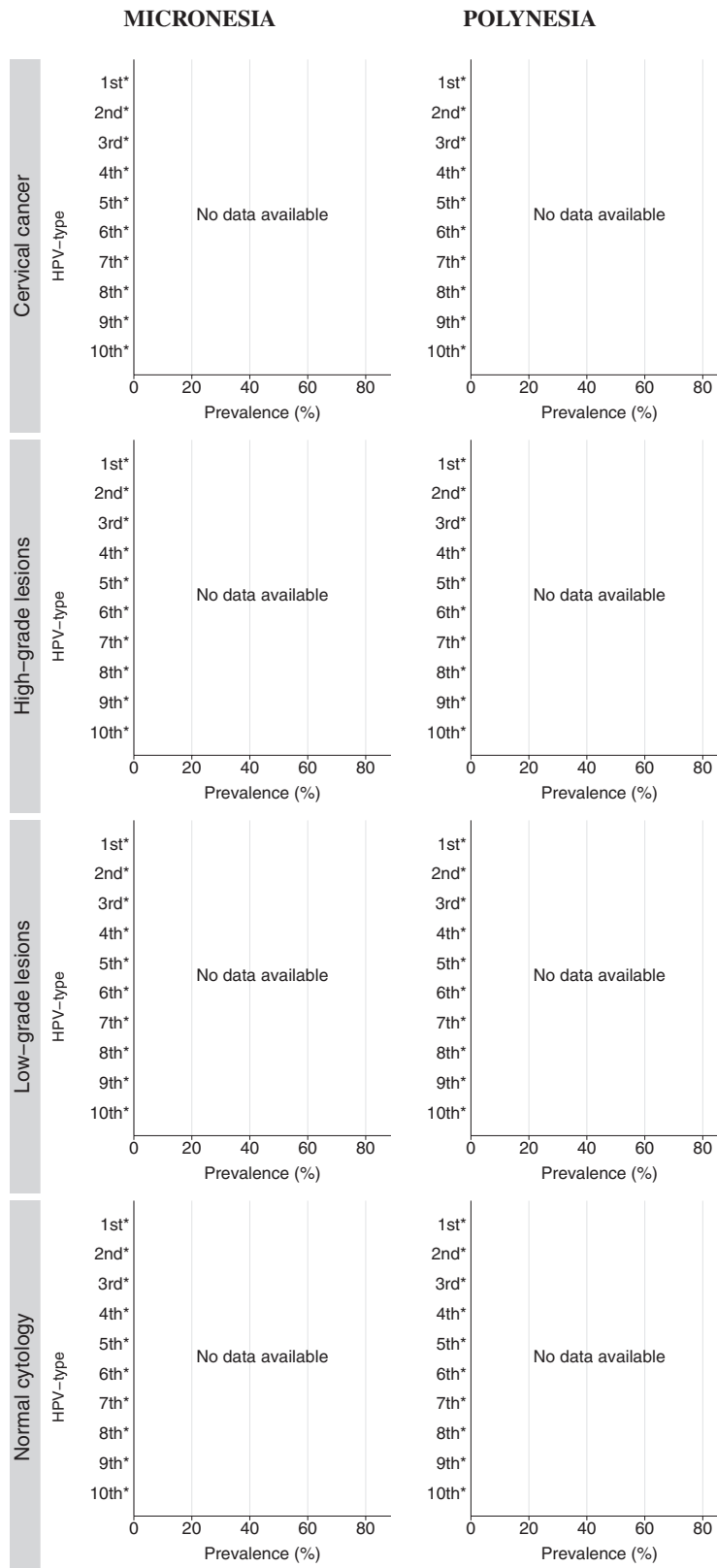
‡High-grade lesions: CIN-2, CIN-3, CIS or HSIL

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Oceania



*No data available. No more types than shown were tested or were positive.

Fig. 3. Ten most frequent HPV types in women with and without cervical disease in Oceania (continued)



*No data available. No more types than shown were tested or were positive.

SECTION II. COUNTRIES

AFGHANISTAN



has a population of 7.73 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 511 women are diagnosed with cervical cancer and 254 die from the disease. Cervical cancer ranks as the 4th most

frequent cancer in women in Afghanistan, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Afghanistan. However, in Southern Asia, the region Afghanistan belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	4.5	2.2
Age-standardized rate	6.9	3.6
Cumulative risk 0-64 years (%)	0.6	0.3
SIR/SMR	42	40
Annual number of new cases/deaths	511	254
Ranking of cervical cancer (all ages) †	4th	5th
Ranking of cervical cancer (15-44 years) †	3rd	5th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

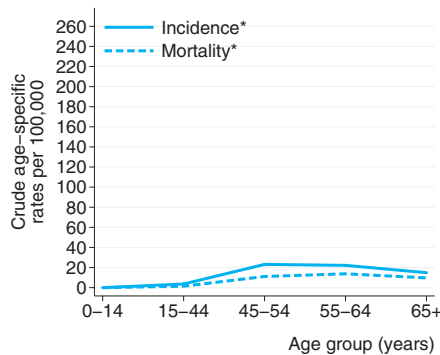


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	17
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	1.2

Table 4. Burden of HPV in women with and without cervical disease

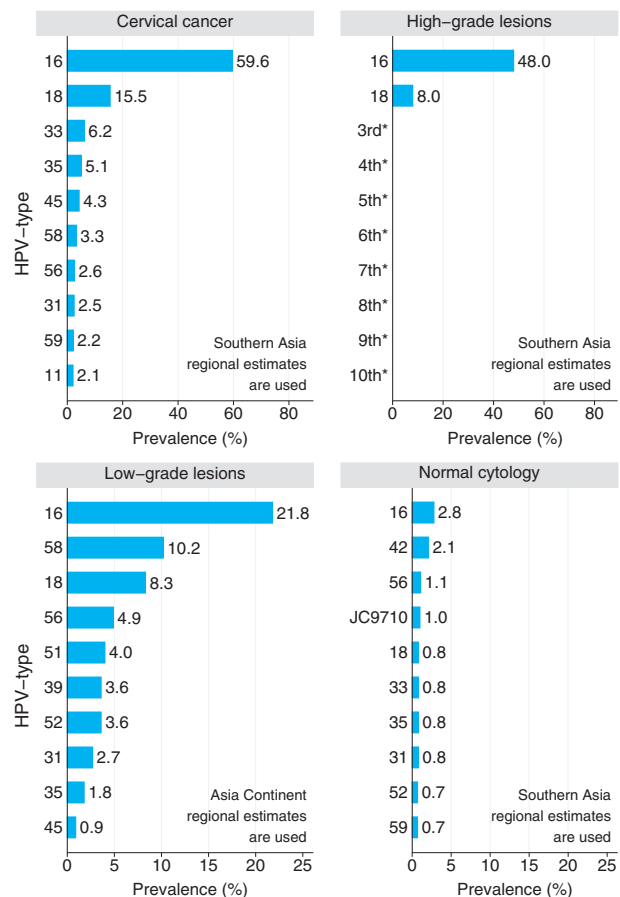
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18†	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	77
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ALBANIA



has a population of 1.17 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 389 women are diagnosed with cervical cancer and 146 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Albania, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Albania. However, in Southern Europe, the region Albania belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	25.1	9.4
Age-standardized rate	25.2	9.8
Cumulative risk 0-64 years (%)	1.9	0.6
SIR/SMR	163	112
Annual number of new cases/deaths	389	146
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

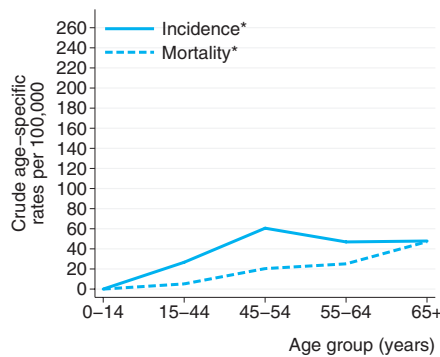


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	18
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	1.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

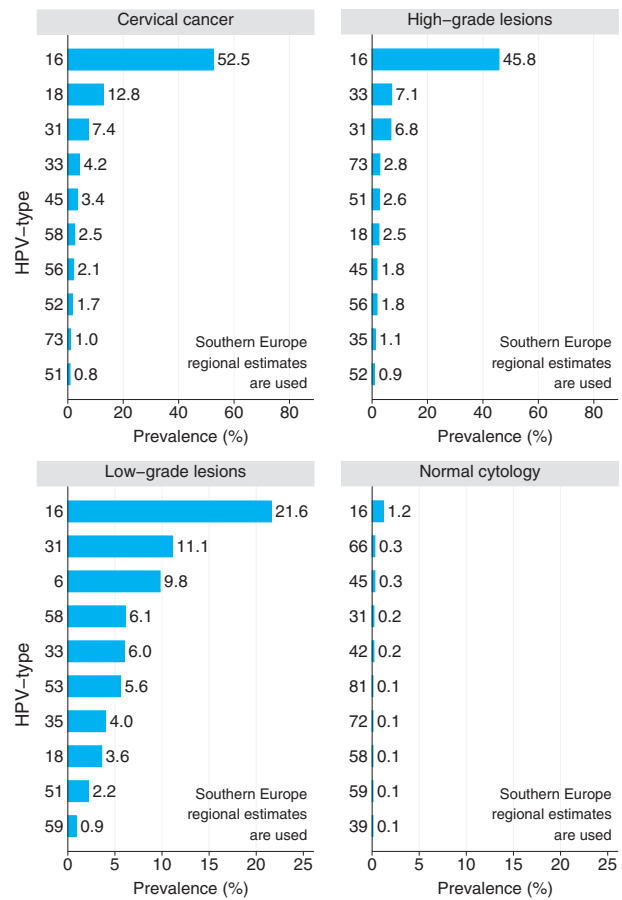
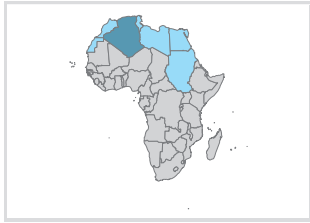


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ALGERIA



has a population of 11.51 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1726 women are diagnosed with cervical cancer and 1391 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Algeria, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Algeria. However, in Northern Africa, the region Algeria belongs to, about 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Algeria 77.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	11.2	9
Age-standardized rate	15.6	12.7
Cumulative risk 0-64 years (%)	1.3	1
SIR/SMR	89	137
Annual number of new cases/deaths	1726	1391
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

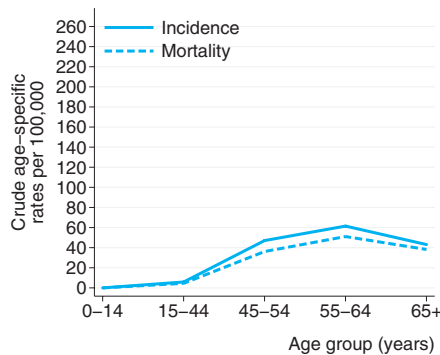


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	0.4
Fertility rate (live births per women)	3.1
Oral Contraceptive Use (%)	44.3

Table 4. Burden of HPV in women with and without cervical disease

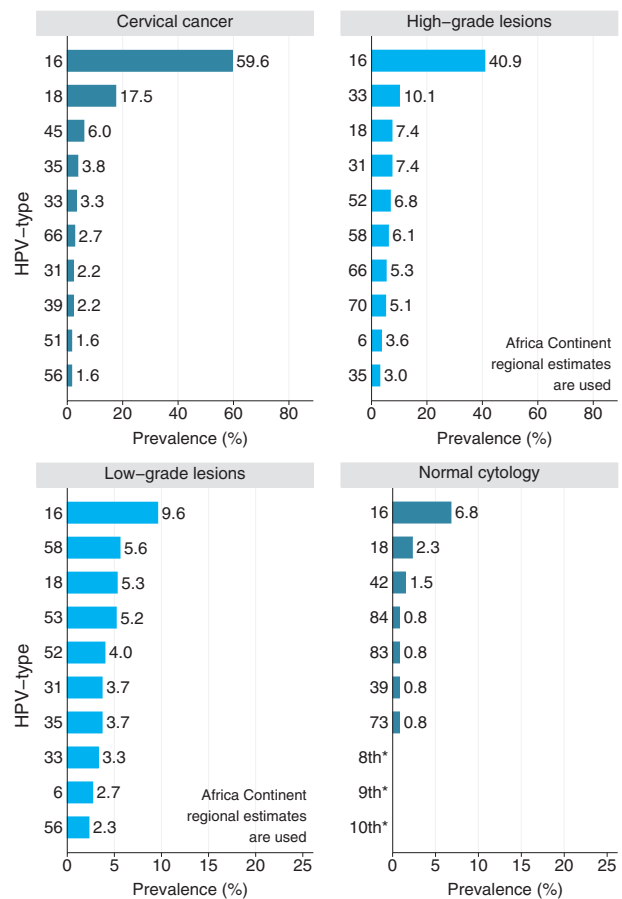
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type	183	96.2* (92.3-98.4)
Cervical cancer: HPV 16/18	183	77.0 (70.3-82.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ANDORRA



Data is not yet available on the burden of cervical cancer in Andorra. However, in Southern Europe, the region Andorra belongs to, current estimates indicate that every year 10641 women are diagnosed with cervical cancer and 4131 die from the disease. Cervical cancer

ranks as the 7th most frequent cancer in women in Southern Europe, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Andorra. However, in Southern Europe about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

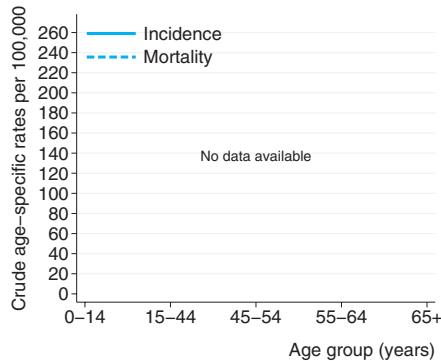


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

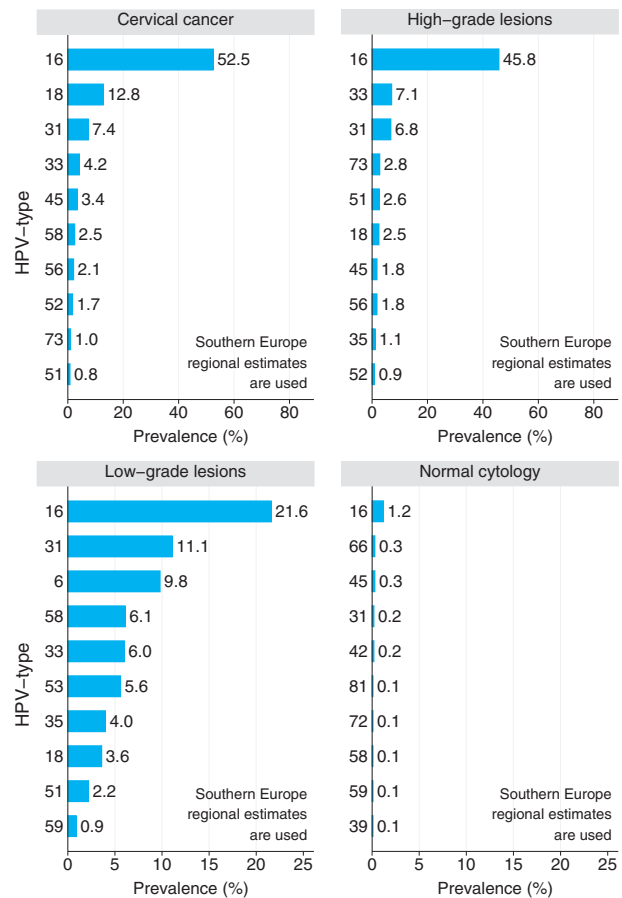


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ANGOLA



has a population of 4.37 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1158 women are diagnosed with cervical cancer and 926 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Angola, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Angola. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.4	13.2
Age-standardized rate	28.6	23.2
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	167	259
Annual number of new cases/deaths	1158	926
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

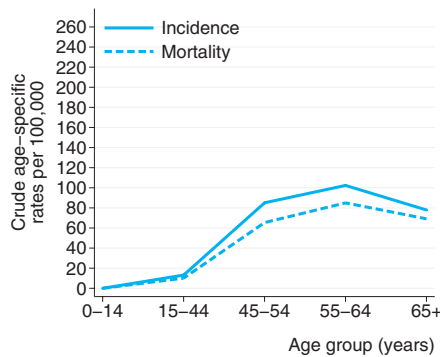


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.7
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	2.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	6226	23.0 (21.9-24.0)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type‡	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18‡	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

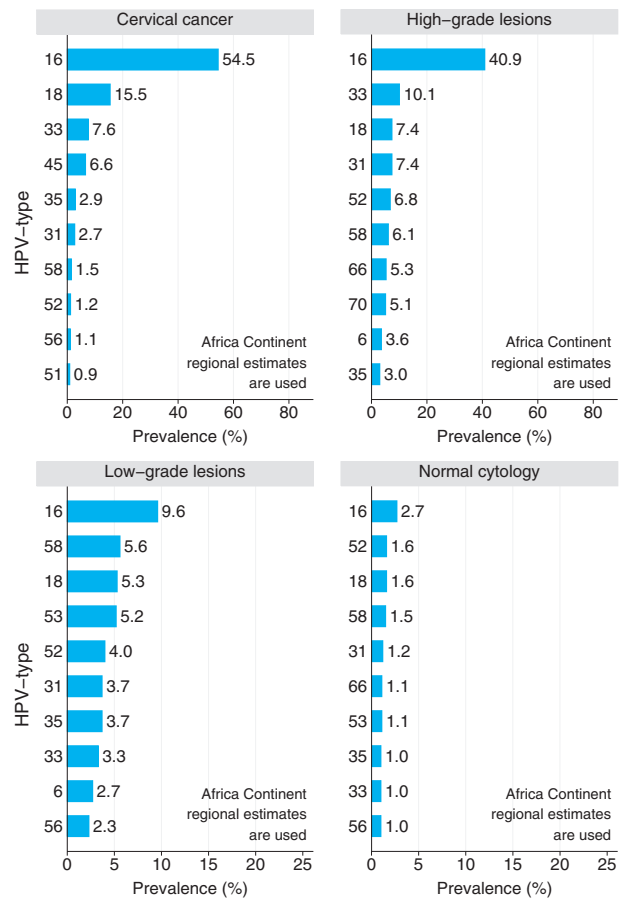


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	44
Percentage of districts with >=80% DTP3 coverage	4

DTP: Diphtheria, Tetanus and Pertussis

ANTIGUA & BARBUDA



Data is not yet available on the burden of cervical cancer in Antigua & Barbuda. However, in Caribbean, the region Antigua & Barbuda belongs to, current estimates indicate that every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease.

Cervical cancer ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Antigua & Barbuda. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

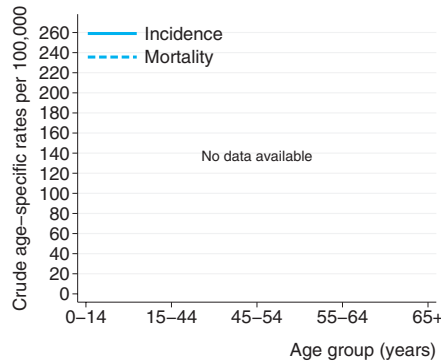


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	26.2

Table 4. Burden of HPV in women with and without cervical disease

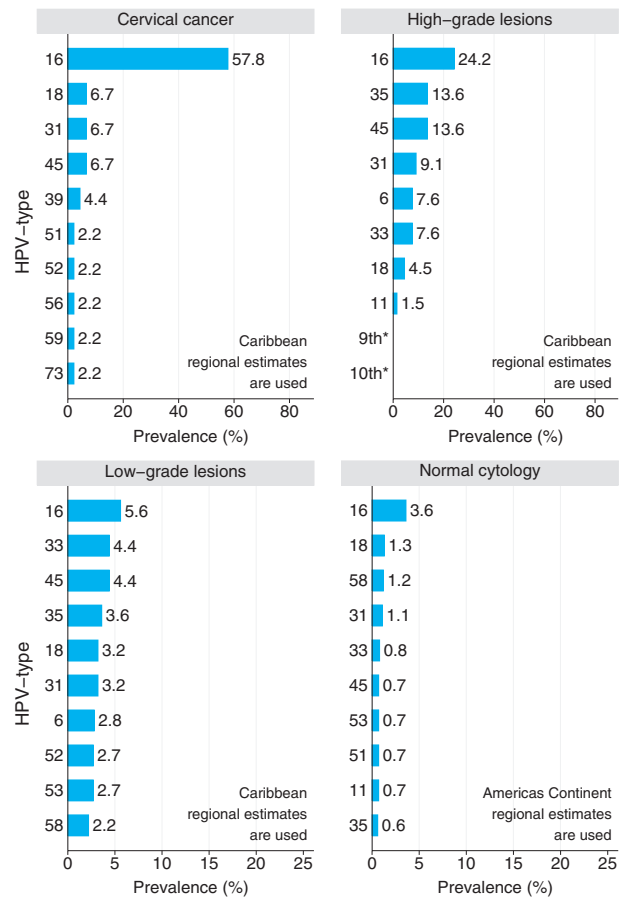
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ARGENTINA



has a population of 14.76 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4924 women are diagnosed with cervical cancer and 1679 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Argentina, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 15.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 77.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	25.5	8.7
Age-standardized rate	23.2	7.8
Cumulative risk 0-64 years (%)	1.7	0.6
SIR/SMR	143	84
Annual number of new cases/deaths	4924	1679
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

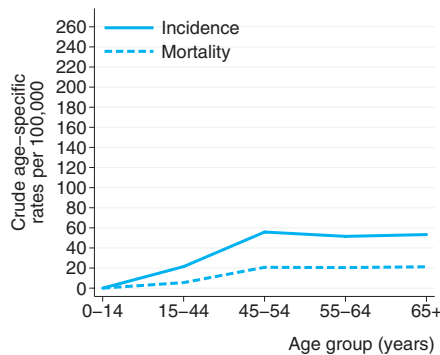


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

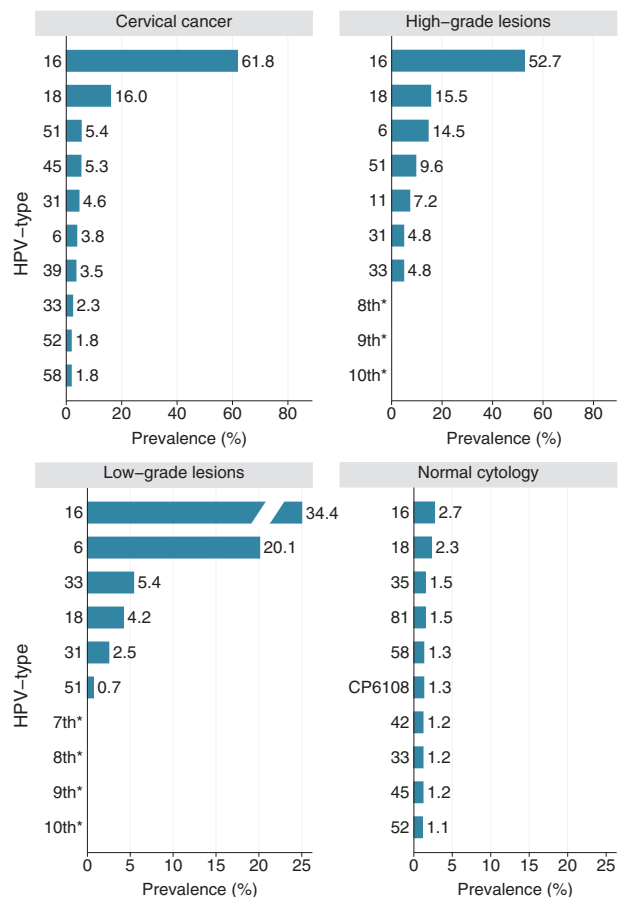
HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	24.9
Fertility rate (live births per women)	2.5
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	843	15.4 (13.0-18.0)
Low-grade lesions	334	82.9 (78.5-86.8)
High-grade lesions	207	94.7 (90.7-97.3)
Cervical cancer: any type	131	97.7* (93.5-99.5)
Cervical cancer: HPV 16/18	131	77.9 (69.8-84.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	91
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ARMENIA



has a population of 1.31 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 380 women are diagnosed with cervical cancer and 130 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Armenia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Armenia. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	19.6	6.7
Age-standardized rate	16.8	5.6
Cumulative risk 0-64 years (%)	1.2	0.4
SIR/SMR	105	64
Annual number of new cases/deaths	380	130
Ranking of cervical cancer (all ages) †	2nd	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

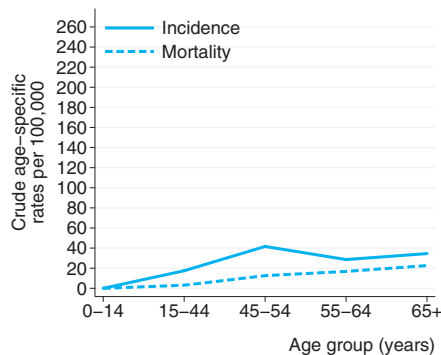


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	2.4
Fertility rate (live births per women)	1.9
Oral Contraceptive Use (%)	1.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

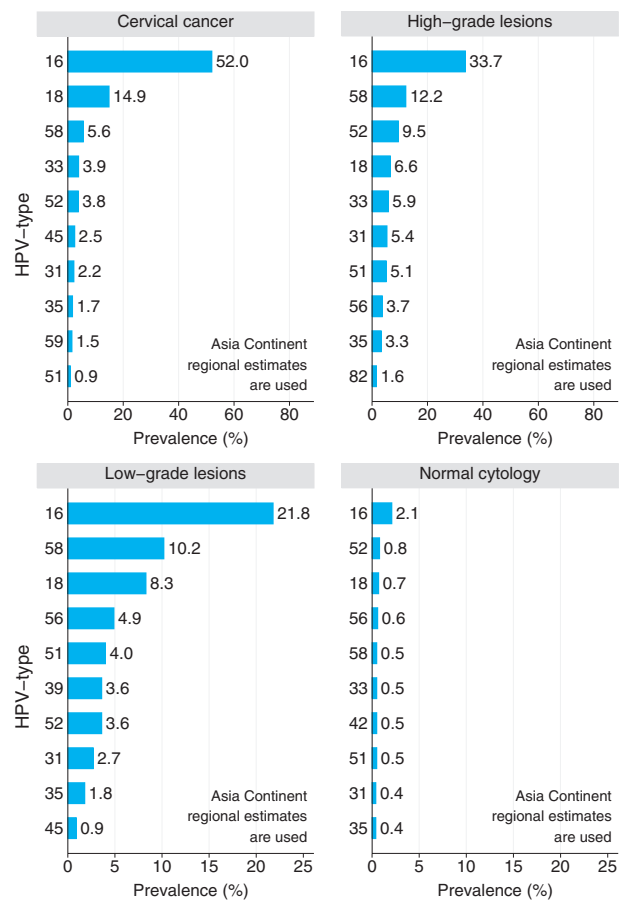
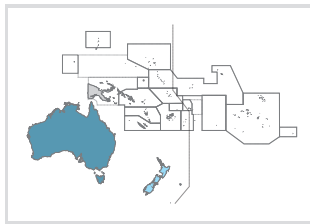


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with >=80% DTP3 coverage	88

DTP: Diphtheria, Tetanus and Pertussis

AUSTRALIA



has a population of 8.27 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 835 women are diagnosed with cervical cancer and 249 die from the disease. Cervical cancer ranks as the 11th most

frequent cancer in women in Australia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Australia, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Australia 77.6% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	8.5	2.5
Age-standardized rate	6.9	1.7
Cumulative risk 0-64 years (%)	0.5	0.1
SIR/SMR	41	21
Annual number of new cases/deaths	835	249
Ranking of cervical cancer (all ages) †	11th	17th
Ranking of cervical cancer (15-44 years) †	3rd	7th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

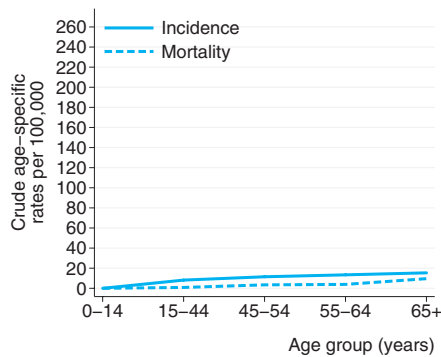


Table 2. Cervical screening coverage

61.8% (2000-2001)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	16.3
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	24.0

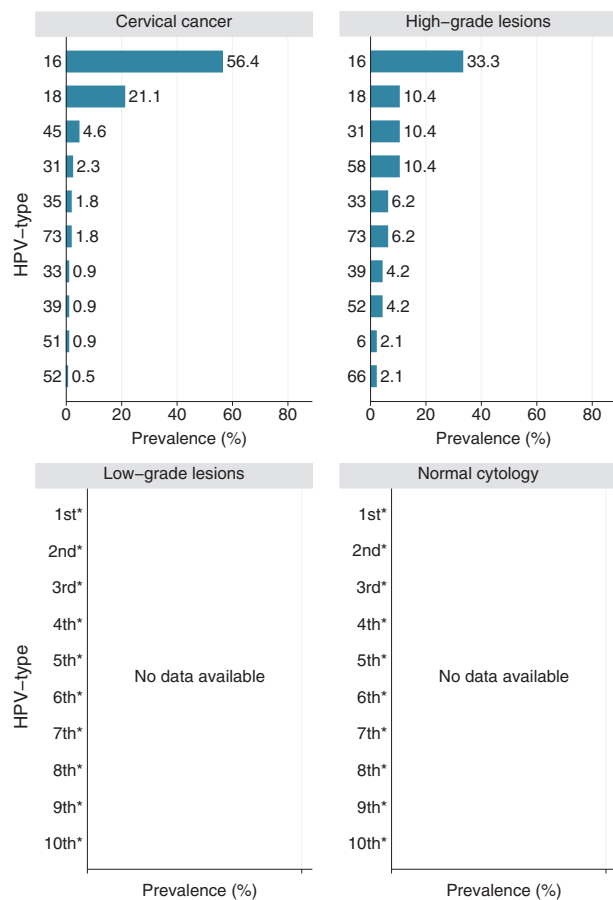
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	-	-
Low-grade lesions ‡	-	-
High-grade lesions	48	95.8 (85.7-99.5)
Cervical cancer: any type	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

AUSTRIA



has a population of 3.57 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 610 women are diagnosed with cervical cancer and 295 die from the disease. Cervical cancer ranks as the 9th most

frequent cancer in women in Austria, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Austria. However, in Western Europe, the region Austria belongs to, about 6.1% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Austria 78.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.8	7.2
Age-standardized rate	10.9	4.1
Cumulative risk 0-64 years (%)	0.9	0.2
SIR/SMR	63	50
Annual number of new cases/deaths	610	295
Ranking of cervical cancer (all ages) †	9th	8th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

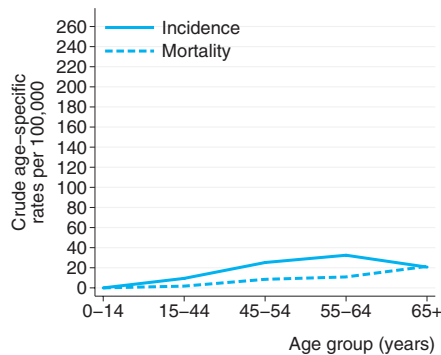


Table 2. Cervical screening coverage

Lifetime: 60% had 2 or more smears, 10% had only one smear, 30% never had any smears (1999)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	24.2
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	30.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	48701	6.1 (5.9-6.4)
Low-grade lesions†	312	68.6 (63.1-73.7)
High-grade lesions†	1664	93.3 (92.0-94.5)
Cervical cancer: any type	200	90.5* (85.6-94.2)
Cervical cancer: HPV 16/18	200	78.5 (72.2-84.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

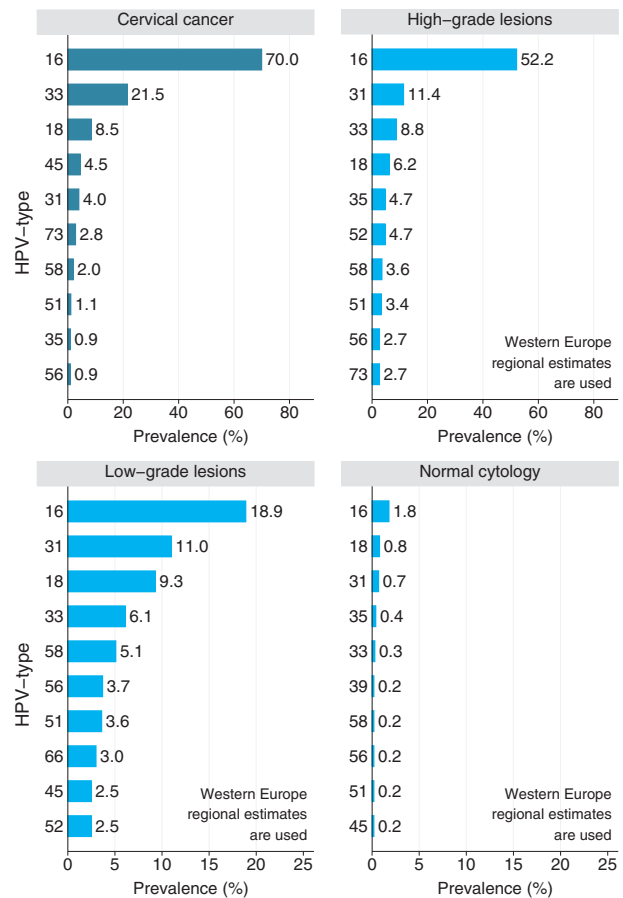


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	83
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

AZERBAIJAN



has a population of 3.28 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 345 women are diagnosed with cervical cancer and 113 die from the disease. Cervical cancer ranks as the 5th most

frequent cancer in women in Azerbaijan, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Azerbaijan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	8.4	2.8
Age-standardized rate	8.2	2.8
Cumulative risk 0-64 years (%)	0.6	0.2
SIR/SMR	53	31
Annual number of new cases/deaths	345	113
Ranking of cervical cancer (all ages) †	5th	8th
Ranking of cervical cancer (15-44 years) †	2nd	8th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

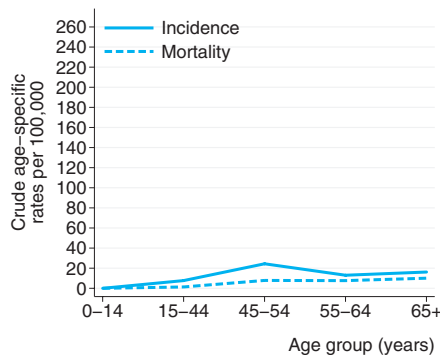


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	0.6
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	1.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

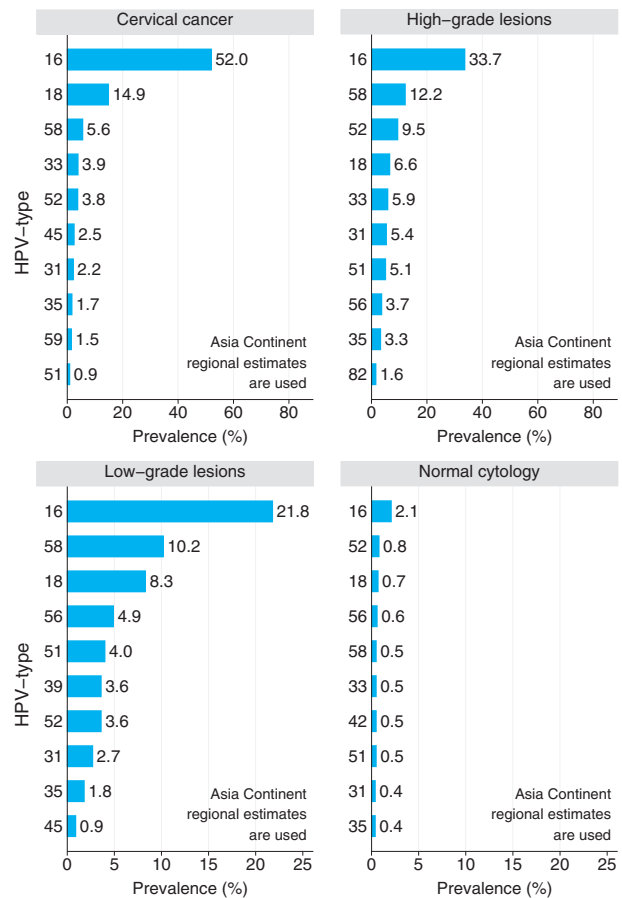


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	97

DTP: Diphtheria, Tetanus and Pertussis

BAHAMAS



has a population of 120667 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 25 women are diagnosed with cervical cancer and 9 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Bahamas, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bahamas. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Bahamas belongs to, about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	15.7	5.7
Age-standardized rate	16.7	6.2
Cumulative risk 0-64 years (%)	1.1	0.4
SIR/SMR	103	69
Annual number of new cases/deaths	25	9
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

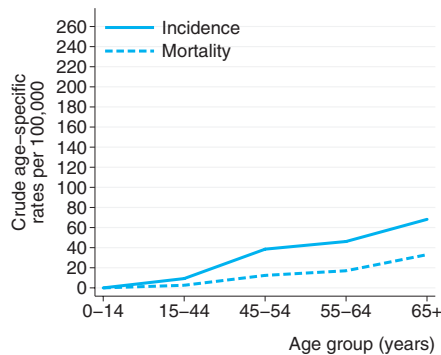


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.3
Smoking prevalence in women (%)	3.8
Fertility rate (live births per women)	2.3
Oral Contraceptive Use (%)	31.5

Table 4. Burden of HPV in women with and without cervical disease

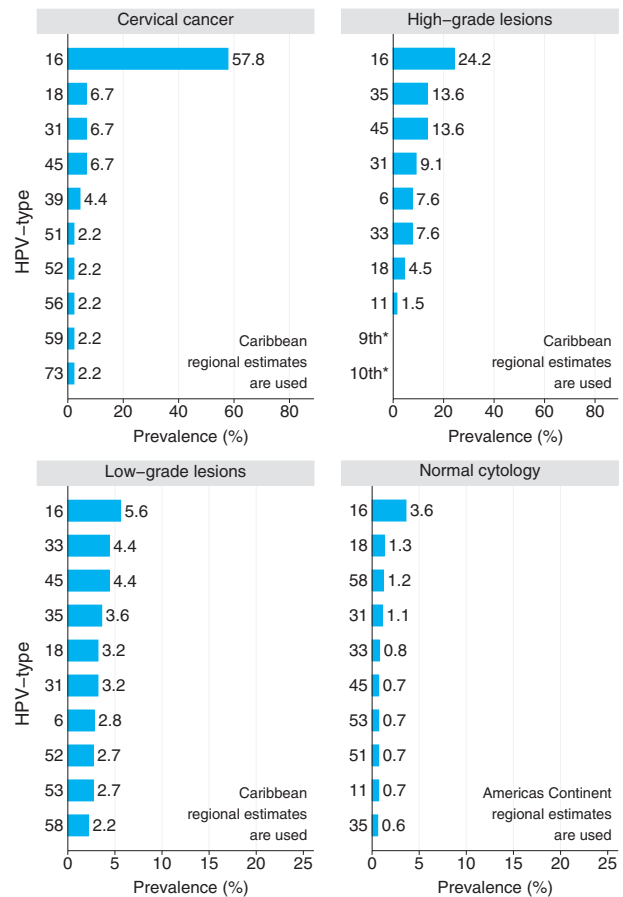
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

BAHRAIN



has a population of 215948 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 17 women are diagnosed with cervical cancer and 9 die from the disease. Cervical cancer ranks as the 4th most frequent

cancer in women in Bahrain, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bahrain. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	6	3.1
Age-standardized rate	8.5	4.8
Cumulative risk 0-64 years (%)	0.7	0.4
SIR/SMR	44	46
Annual number of new cases/deaths	17	9
Ranking of cervical cancer (all ages) †	4th	5th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

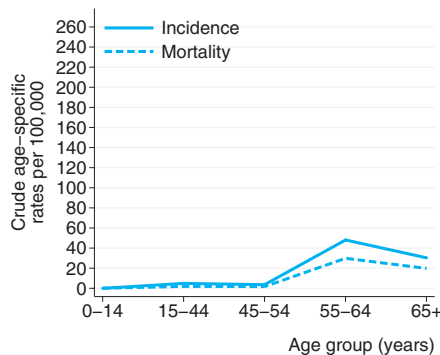


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	3.1
Fertility rate (live births per women)	2.8
Oral Contraceptive Use (%)	10.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

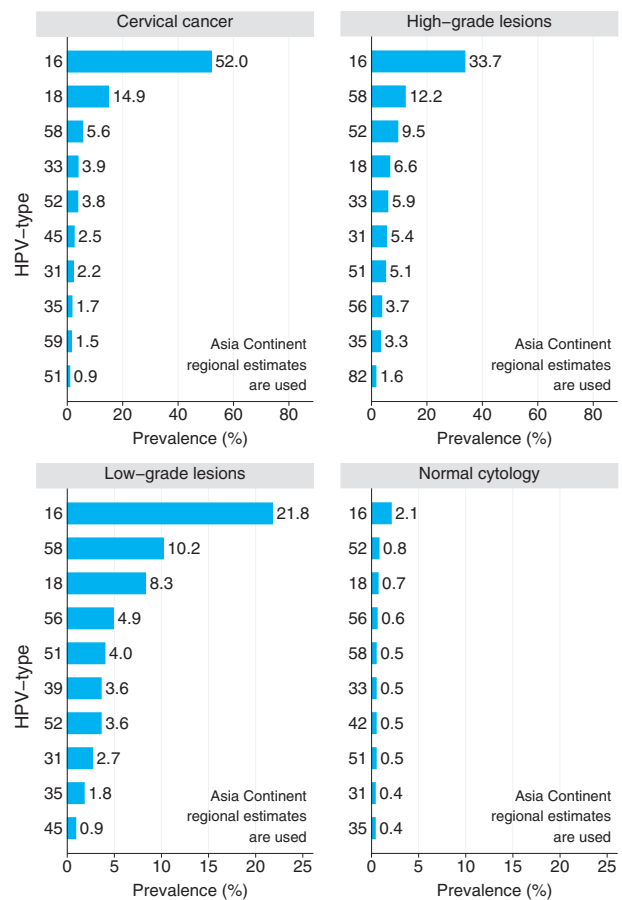


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BANGLADESH



has a population of 44.78 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 12931 women are diagnosed with cervical cancer and 6561 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Bangladesh, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bangladesh. However, in Southern Asia, the region Bangladesh belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.6	9.4
Age-standardized rate	27.6	14.8
Cumulative risk 0-64 years (%)	2.2	1.2
SIR/SMR	161	160
Annual number of new cases/deaths	12931	6561
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

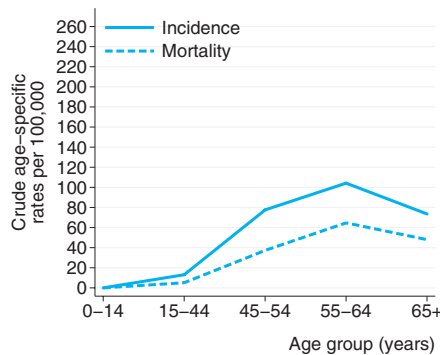


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	26.7
Fertility rate (live births per women)	3.4
Oral Contraceptive Use (%)	26.2

Table 4. Burden of HPV in women with and without cervical disease

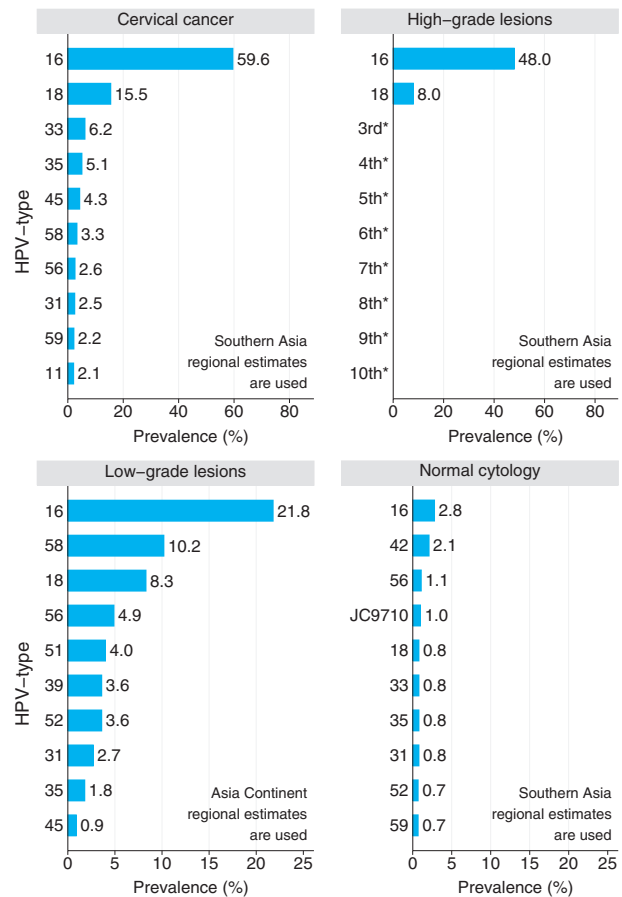
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18‡	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	88
Percentage of districts with ≥80% DTP3 coverage	80

DTP: Diphtheria, Tetanus and Pertussis

BARBADOS



has a population of 114483 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 46 women are diagnosed with cervical cancer and 18 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Barbados, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Barbados. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Barbados belongs to, about 64.4% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	32.5	12.9
Age-standardized rate	24.9	9.4
Cumulative risk 0-64 years (%)	1.6	0.5
SIR/SMR	168	116
Annual number of new cases/deaths	46	18
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

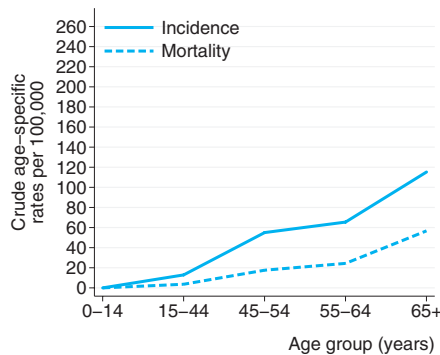


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.5
Smoking prevalence in women (%)	0.8
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	26.2

Table 4. Burden of HPV in women with and without cervical disease

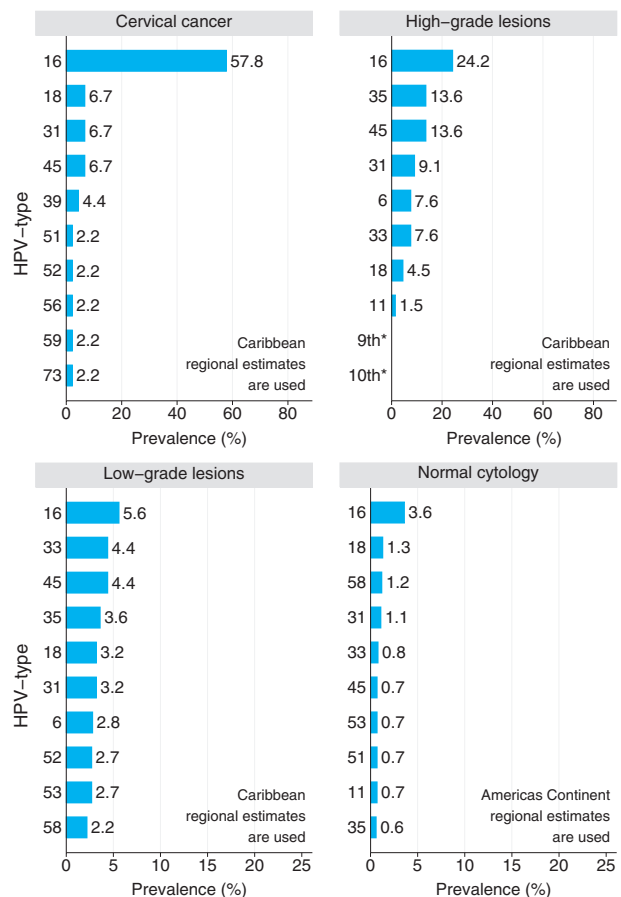
	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	84
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

BELARUS



has a population of 4.48 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1086 women are diagnosed with cervical cancer and 436 die from the disease. Cervical cancer ranks as the 5th most

frequent cancer in women in Belarus, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Belarus. However, in Eastern Europe, the region Belarus belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.2	8.1
Age-standardized rate	13.1	5.2
Cumulative risk 0-64 years (%)	0.9	0.3
SIR/SMR	90	61
Annual number of new cases/deaths	1086	436
Ranking of cervical cancer (all ages) †	5th	6th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

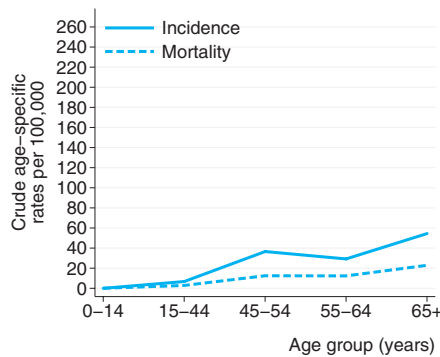


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	7.1
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	6.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

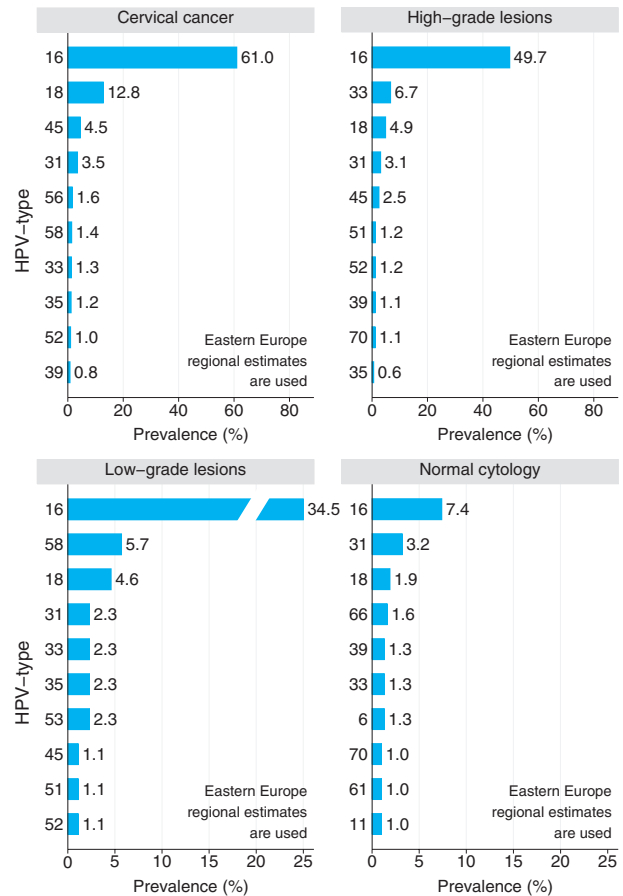


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BELGIUM



has a population of 4.45 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 667 women are diagnosed with cervical cancer and 326 die from the disease. Cervical cancer ranks as the 7th most

frequent cancer in women in Belgium, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 24.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 80.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	12.8	6.2
Age-standardized rate	9.3	3.4
Cumulative risk 0-64 years (%)	0.7	0.2
SIR/SMR	54	44
Annual number of new cases/deaths	667	326
Ranking of cervical cancer (all ages) †	7th	10th
Ranking of cervical cancer (15-44 years) †	2nd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

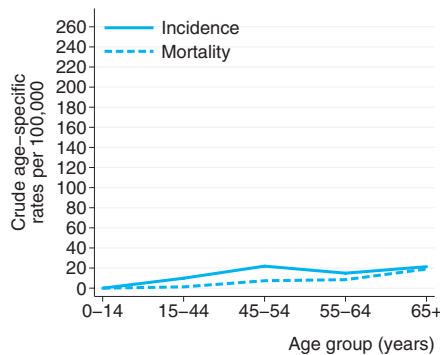


Table 2. Cervical screening coverage

74% in the last 3 years (Flemish region), 64% in the last 3 years (Walloon region)

Table 3. Factors contributing to cervical cancer

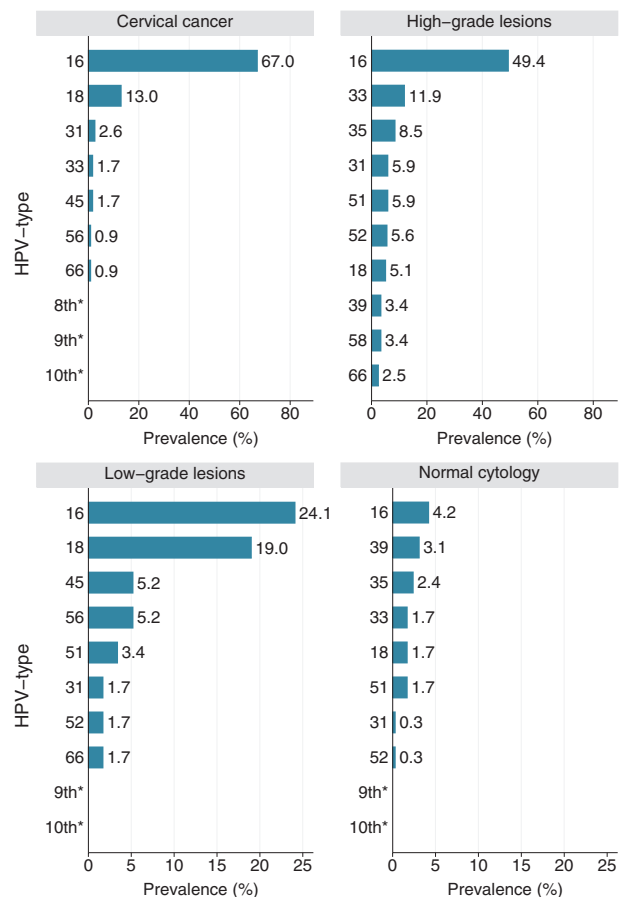
HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	25
Fertility rate (live births per women)	1.5
Oral Contraceptive Use (%)	46.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	287	24.0 (19.2-29.4)
Low-grade lesions	58	69 (55.5-80.5)
High-grade lesions	354	90.7 (87.2-93.5)
Cervical cancer: any type	115	87.8* (80.4-93.2)
Cervical cancer: HPV 16/18	115	80.0 (71.5-86.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

BELIZE



has a population of 84128 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 40 women are diagnosed with cervical cancer and 16 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Belize, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Belize. However, in Central America, the region Belize belongs to, about 20.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 58.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	34.6	14.6
Age-standardized rate	52.4	23
Cumulative risk 0-64 years (%)	3.9	1.5
SIR/SMR	300	244
Annual number of new cases/deaths	40	16
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

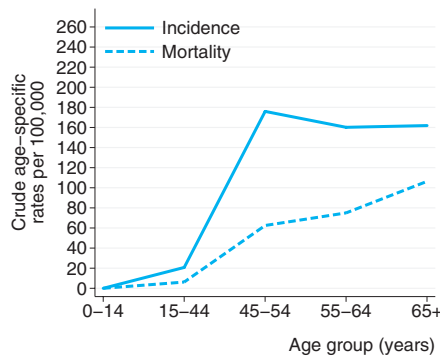


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.5
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	3.2
Oral Contraceptive Use (%)	14.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	10232	20.5 (19.7-21.3)
Low-grade lesions†	390	55.1 (50.0-60.1)
High-grade lesions†	280	86.8 (82.2-90.5)
Cervical cancer: any type†	341	90.3* (86.7-93.2)
Cervical cancer: HPV 16/18†	341	58.4 (52.9-63.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Central America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

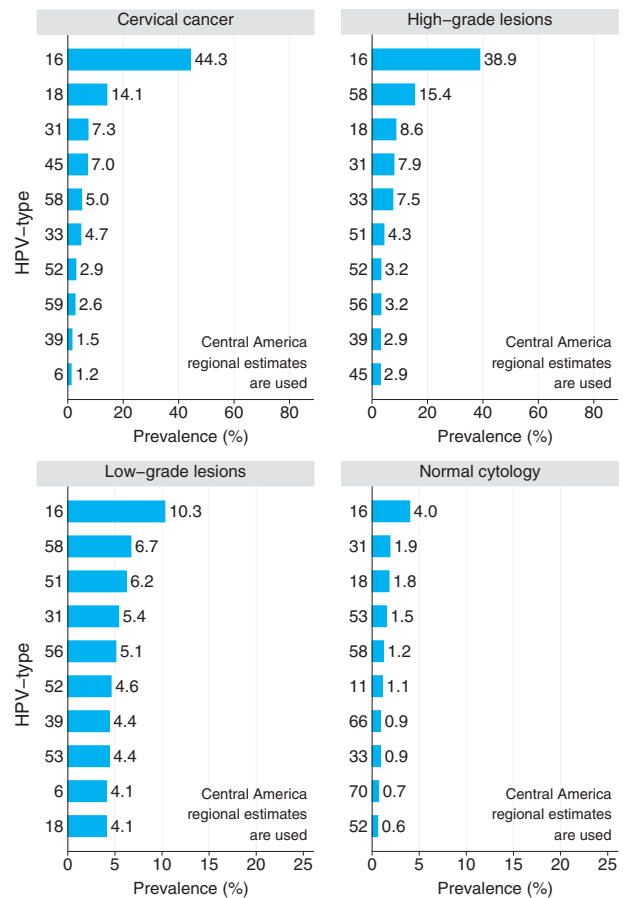


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BENIN



has a population of 2.35 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 561 women are diagnosed with cervical cancer and 448 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Benin, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Benin. However, in Western Africa, the region Benin belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Benin 66.7% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	16.7	13.3
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	168	266
Annual number of new cases/deaths	561	448
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

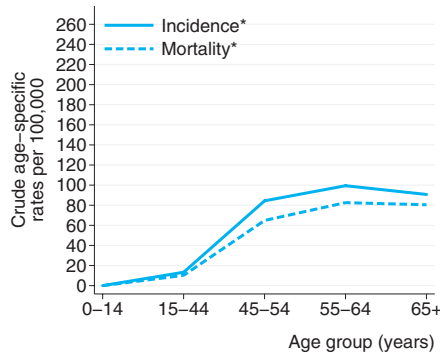


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.8
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.8
Oral Contraceptive Use (%)	1.8

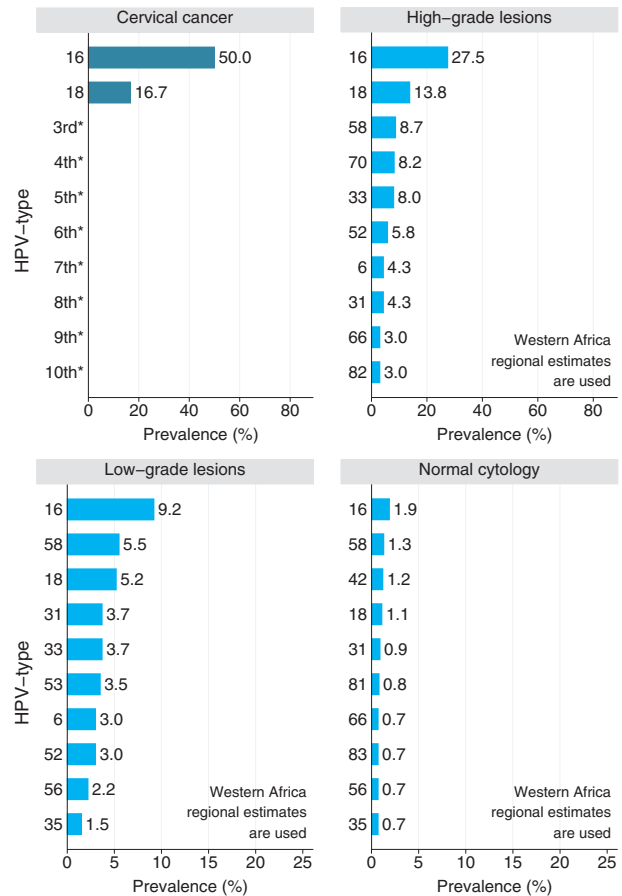
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type	6	83.3* (35.9-99.6)
Cervical cancer: HPV 16/18	6	66.7 (22.3-95.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	83

DTP: Diphtheria, Tetanus and Pertussis

BHUTAN



has a population of 660332 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 200 women are diagnosed with cervical cancer and 105 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Bhutan, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bhutan. However, in Southern Asia, the region Bhutan belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.5	9.6
Age-standardized rate	26.4	14.1
Cumulative risk 0-64 years (%)	2.1	1.1
SIR/SMR	157	154
Annual number of new cases/deaths	200	105
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

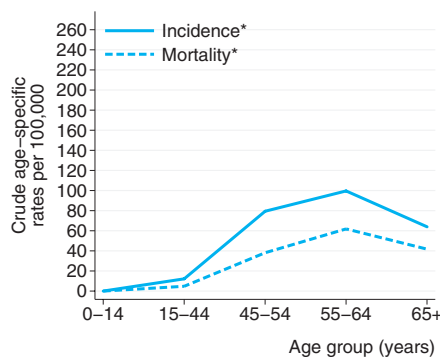


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.6
Oral Contraceptive Use (%)	2.4

Table 4. Burden of HPV in women with and without cervical disease

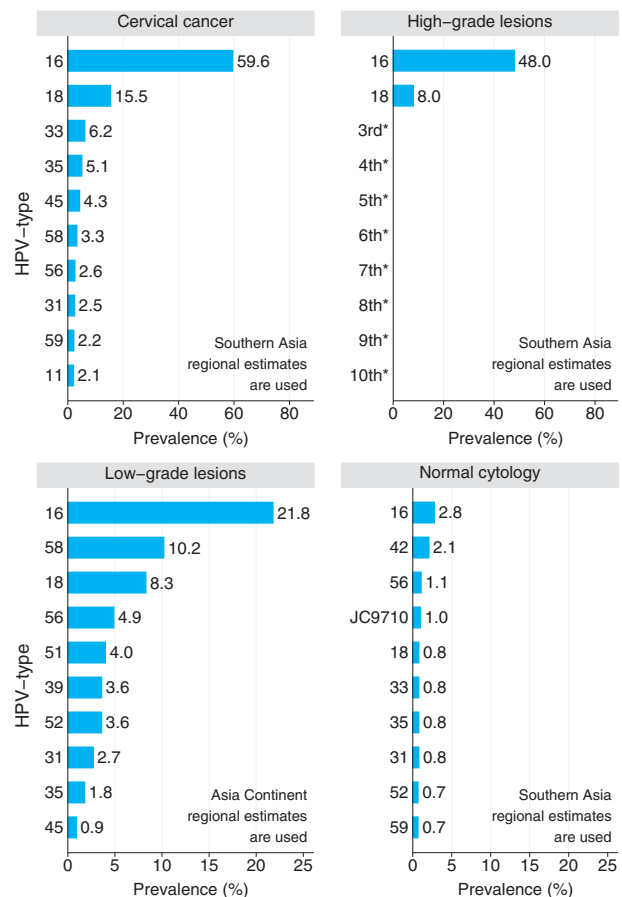
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18‡	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BOLIVIA



has a population of 2.89 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1831 women are diagnosed with cervical cancer and 987 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Bolivia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bolivia. However, in South America, the region Bolivia belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Bolivia 38.8% of invasive cervical cancers are attributed to HPV_s 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	42	22.6
Age-standardized rate	55	30.4
Cumulative risk 0-64 years (%)	3.9	2.2
SIR/SMR	339	347
Annual number of new cases/deaths	1831	987
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

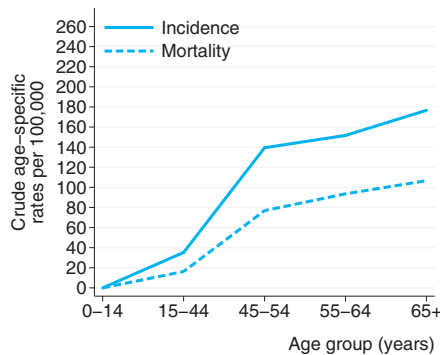


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

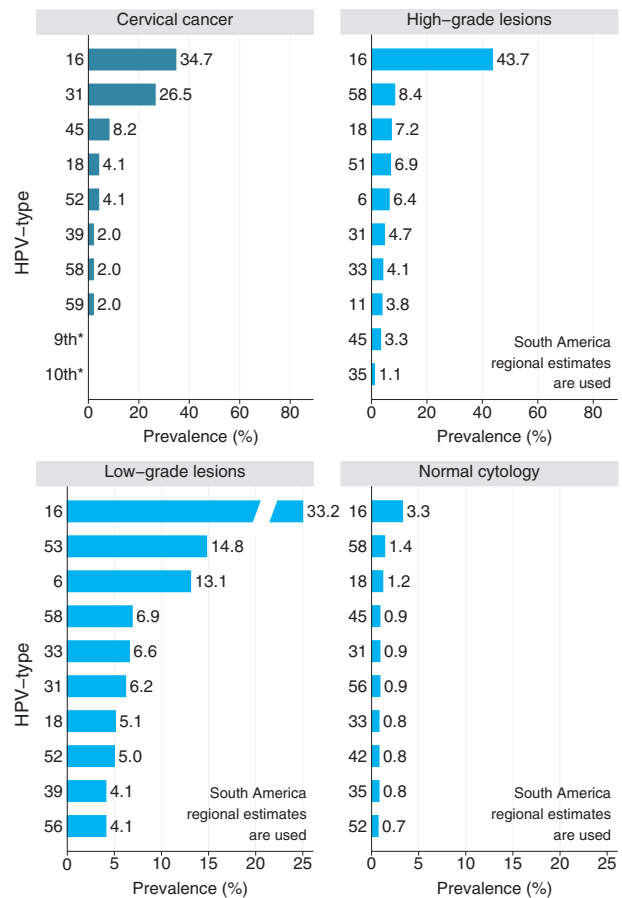
HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	194
Fertility rate (live births per women)	4.4
Oral Contraceptive Use (%)	3.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type	49	95.9* (86.0-99.5)
Cervical cancer: HPV 16/18	49	38.8 (25.2-53.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	81
Percentage of districts with ≥80% DTP3 coverage	60

DTP: Diphtheria, Tetanus and Pertussis

BOSNIA & HERZEGOVINA



has a population of 1.70 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 545 women are diagnosed with cervical cancer and 227 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Bosnia & Herzegovina, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bosnia & Herzegovina. However, in Southern Europe, the region Bosnia & Herzegovina belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	26.6	11.1
Age-standardized rate	21.3	8
Cumulative risk 0-64 years (%)	1.6	0.5
SIR/SMR	126	92
Annual number of new cases/deaths	545	227
Ranking of cervical cancer (all ages) †	3rd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

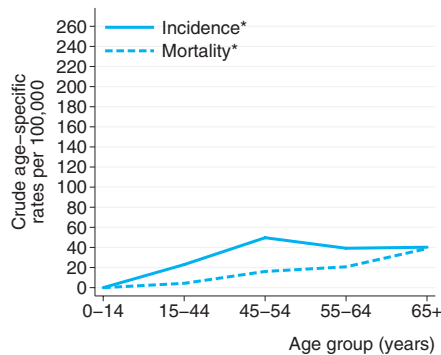


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	29.7
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	4.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

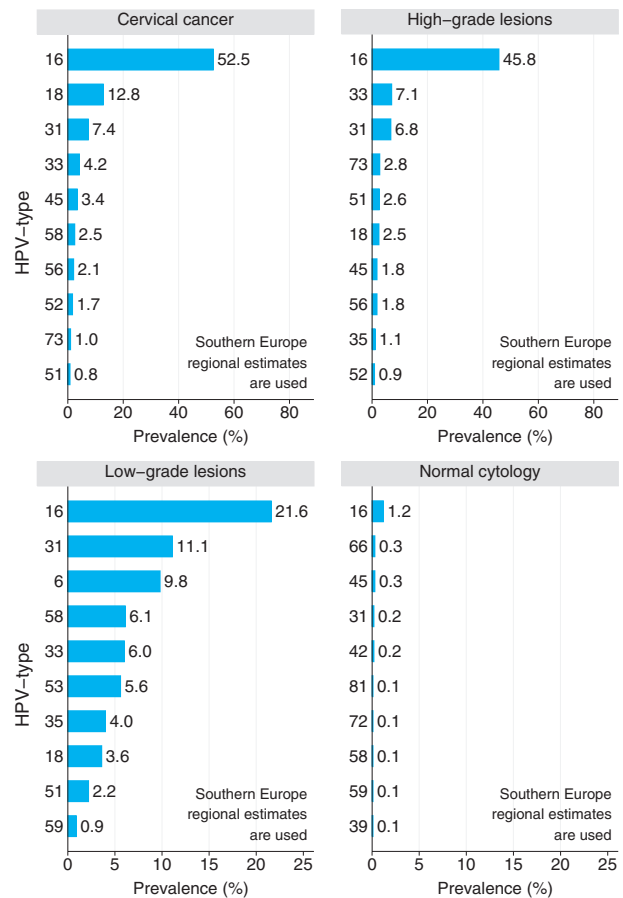


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with ≥80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BOTSWANA



has a population of 567950 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 156 women are diagnosed with cervical cancer and 126 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Botswana, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Botswana. However, in Southern Africa, the region Botswana belongs to, about 15.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.0% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	19.8	15.9
Age-standardized rate	30.4	24.7
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	177	275
Annual number of new cases/deaths	156	126
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	3rd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

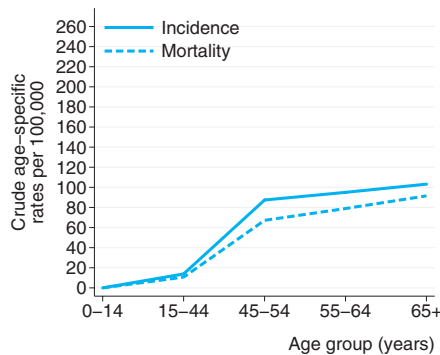


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	24.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.0
Oral Contraceptive Use (%)	14.7

Table 4. Burden of HPV in women with and without cervical disease

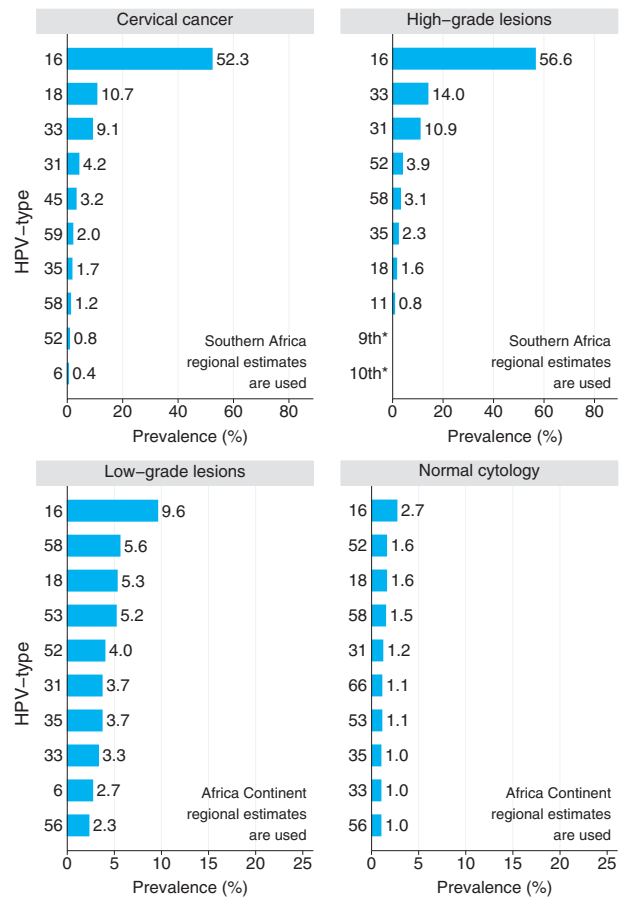
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	1269	15.5 (13.6-17.6)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions†	129	88.4 (81.5-93.3)
Cervical cancer: any type†	308	93.8* (90.5-96.2)
Cervical cancer: HPV 16/18†	308	63.0 (57.3-68.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	96

DTP: Diphtheria, Tetanus and Pertussis

BRAZIL



has a population of 69.05 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 19603 women are diagnosed with cervical cancer and 8286 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Brazil, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 17.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 69.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.2	9.4
Age-standardized rate	23.4	10.2
Cumulative risk 0-64 years (%)	1.8	0.7
SIR/SMR	144	113
Annual number of new cases/deaths	19603	8286
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

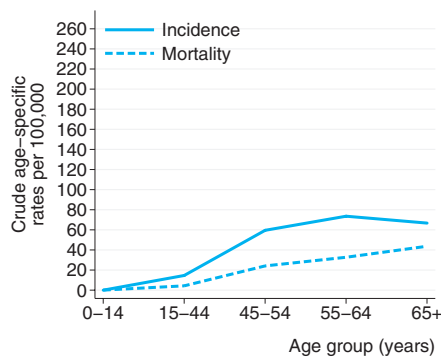


Table 2. Cervical screening coverage

68.9% ever screened among women aged 15-69 years in Sao Paulo: (1987); 65% among women aged 20-69 years in Pelotas (1992); 72% among women aged 20-69 years in Pelotas (2000)

Table 3. Factors contributing to cervical cancer

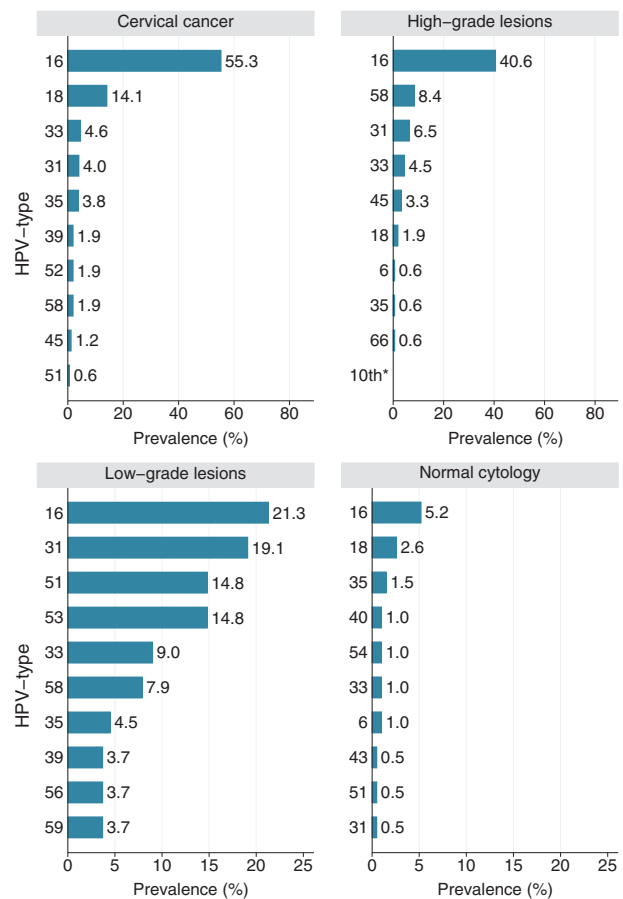
HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	14
Fertility rate (live births per women)	2.6
Oral Contraceptive Use (%)	20.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	194	17.0 (12.0-23.1)
Low-grade lesions	89	71.9 (61.4-80.9)
High-grade lesions	155	74.2 (66.6-80.9)
Cervical cancer: any type	347	86.2* (82.1-89.6)
Cervical cancer: HPV 16/18	347	69.5 (64.3-74.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	95

DTP: Diphtheria, Tetanus and Pertussis

BRUNEI



has a population of 126527 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 26 women are diagnosed with cervical cancer and 13 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Brunei, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Brunei. However, in South-Eastern Asia, the region Brunei belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	16.5	8
Age-standardized rate	18.7	9.6
Cumulative risk 0-64 years (%)	1.4	0.7
SIR/SMR	118	111
Annual number of new cases/deaths	26	13
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

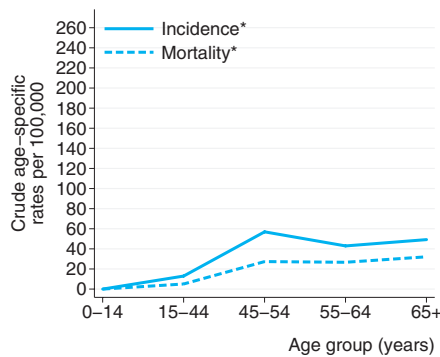


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	2.4
Oral Contraceptive Use (%)	-

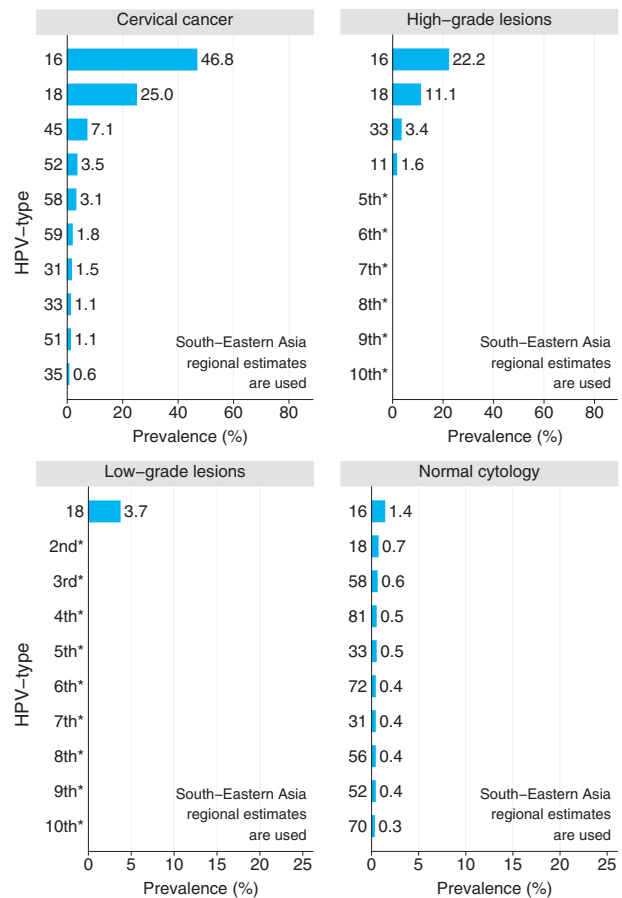
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

BULGARIA



has a population of 3.47 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 979 women are diagnosed with cervical cancer and 506 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Bulgaria, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Bulgaria. However, in Eastern Europe, the region Bulgaria belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24.4	12.6
Age-standardized rate	18.7	8
Cumulative risk 0-64 years (%)	1.4	0.5
SIR/SMR	101	87
Annual number of new cases/deaths	979	506
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

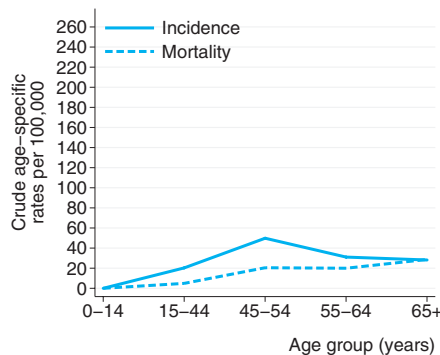


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	23
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	7.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

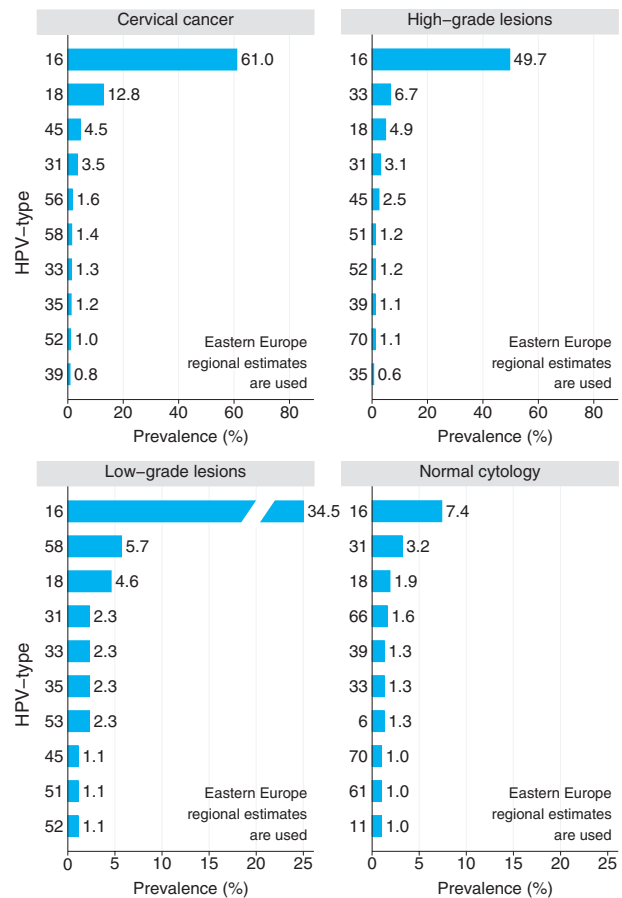
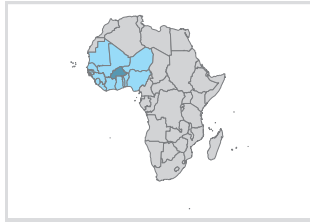


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

BURKINA FASO



has a population of 3.51 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 921 women are diagnosed with cervical cancer and 724 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Burkina Faso, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Burkina Faso. However, in Western Africa, the region Burkina Faso belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.6	11.5
Age-standardized rate	23.4	18.5
Cumulative risk 0-64 years (%)	1.9	1.5
SIR/SMR	150	227
Annual number of new cases/deaths	921	724
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

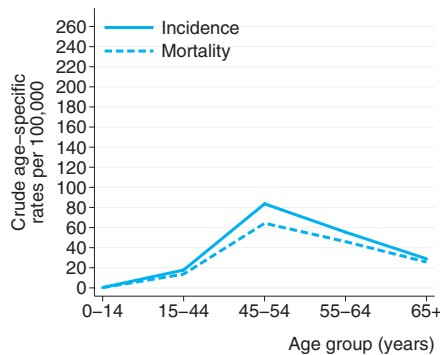


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.0
Smoking prevalence in women (%)	0.6
Fertility rate (live births per women)	6.8
Oral Contraceptive Use (%)	2.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

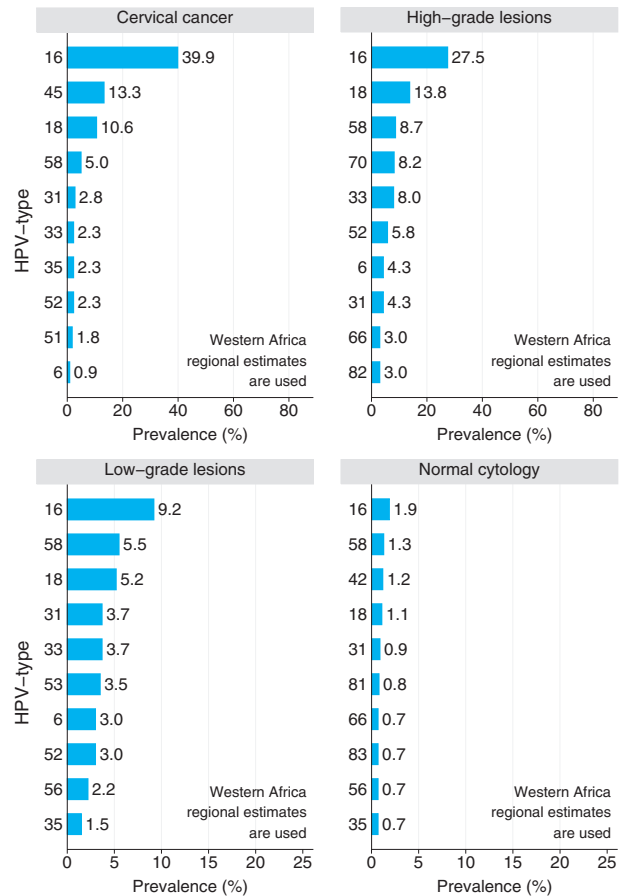


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	95

DTP: Diphtheria, Tetanus and Pertussis

BURUNDI



has a population of 2.17 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 899 women are diagnosed with cervical cancer and 722 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Burundi, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Burundi. However, in Eastern Africa, the region Burundi belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	26	20.9
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	251	391
Annual number of new cases/deaths	899	722
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

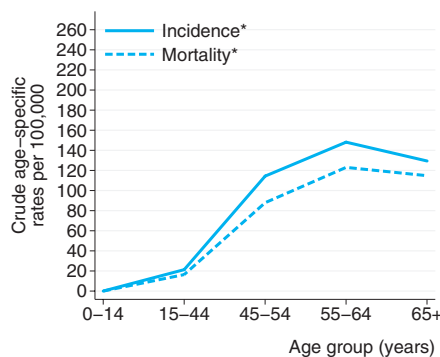


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.3
Smoking prevalence in women (%)	11.4
Fertility rate (live births per women)	7.0
Oral Contraceptive Use (%)	3.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

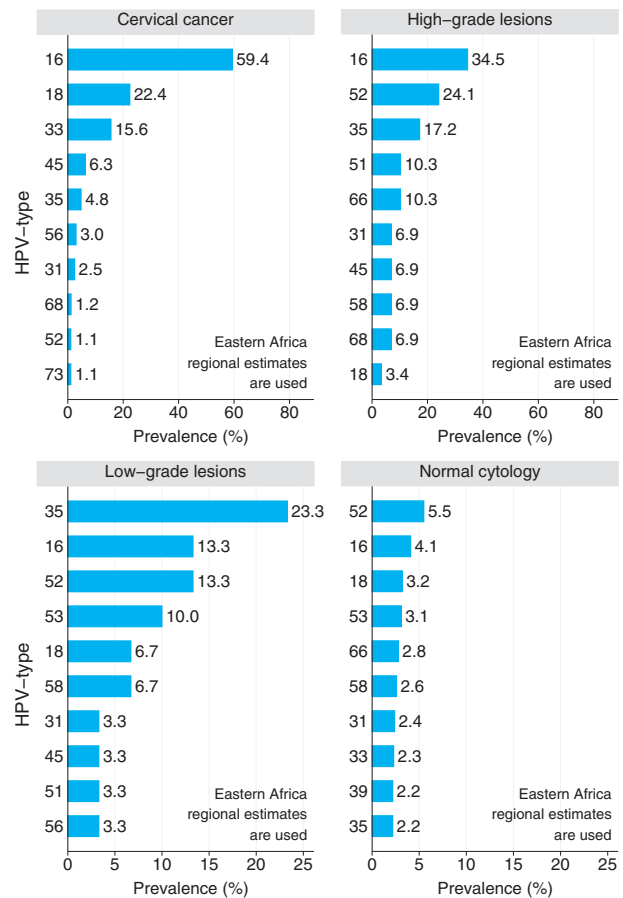


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	74
Percentage of districts with >=80% DTP3 coverage	71

DTP: Diphtheria, Tetanus and Pertussis

CAMBODIA



has a population of 4.71 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1768 women are diagnosed with cervical cancer and 949 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Cambodia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cambodia. However, in South-Eastern Asia, the region Cambodia belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	25.3	13.5
Age-standardized rate	38.7	21.6
Cumulative risk 0-64 years (%)	2.8	1.5
SIR/SMR	219	225
Annual number of new cases/deaths	1768	949
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

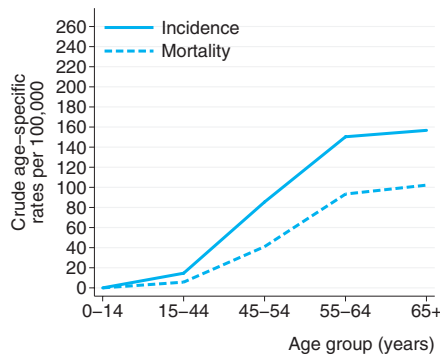


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.6
Smoking prevalence in women (%)	10
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	7.2

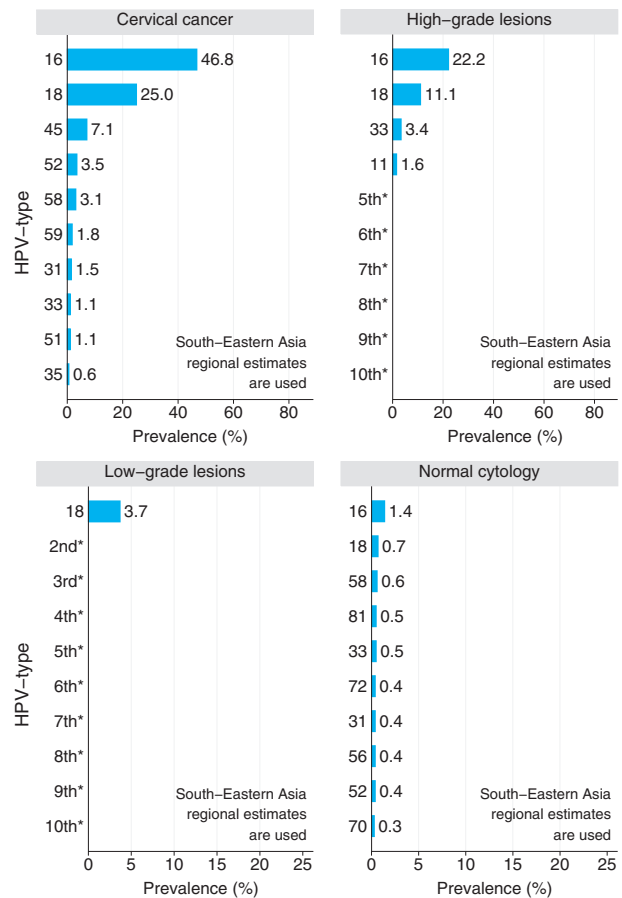
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	80
Percentage of districts with >=80% DTP3 coverage	38

DTP: Diphtheria, Tetanus and Pertussis

CAMEROON



has a population of 4.86 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1759 women are diagnosed with cervical cancer and 1419 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Cameroon, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cameroon. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.6	18.2
Age-standardized rate	35.7	28.9
Cumulative risk 0-64 years (%)	2.7	2.2
SIR/SMR	204	313
Annual number of new cases/deaths	1759	1419
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

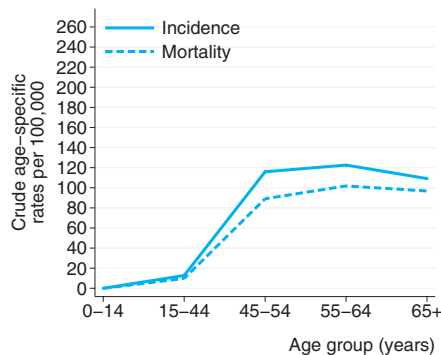


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	5.4
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	1.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	6226	23.0 (21.9-24.0)
Low-grade lesions †	301	59.1 (53.3-64.7)
High-grade lesions †	296	85.1 (80.6-89.0)
Cervical cancer: any type †	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18 †	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

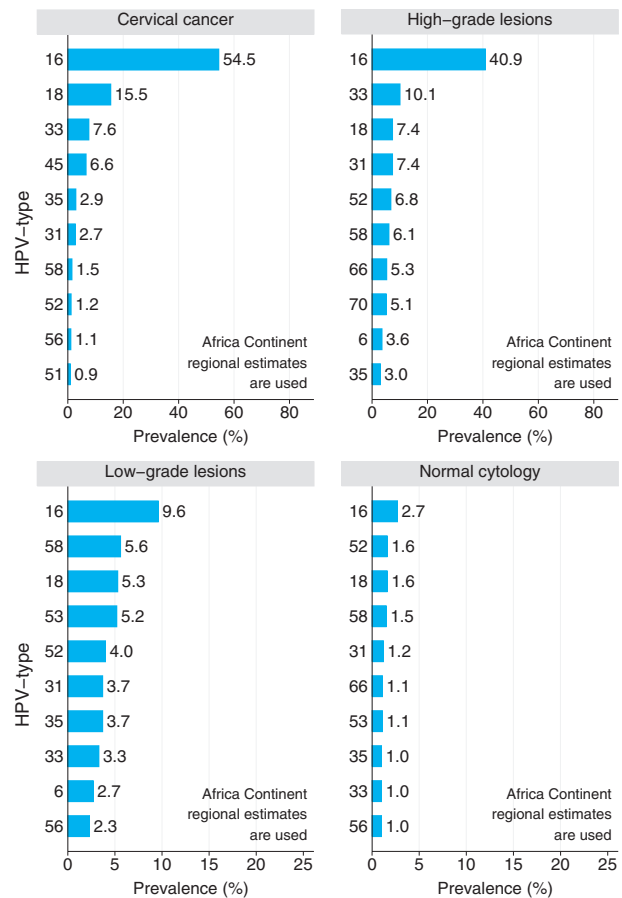
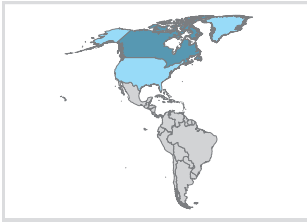


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	81
Percentage of districts with >=80% DTP3 coverage	46

DTP: Diphtheria, Tetanus and Pertussis

CANADA



has a population of 13.51 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1502 women are diagnosed with cervical cancer and 581 die from the disease. Cervical cancer ranks as the 11th

most frequent cancer in women in Canada, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 21.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	9.5	3.7
Age-standardized rate	7.7	2.5
Cumulative risk 0-64 years (%)	0.6	0.1
SIR/SMR	44	29
Annual number of new cases/deaths	1502	581
Ranking of cervical cancer (all ages) †	11th	10th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

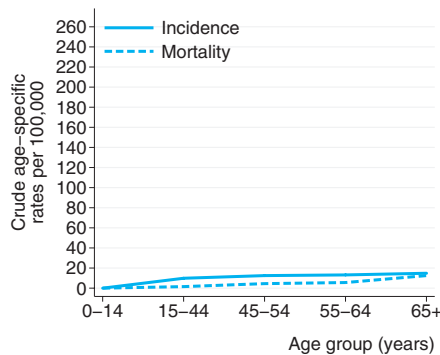


Table 2. Cervical screening coverage

79% were screened in the previous 3 years among women aged 20-69 years (1998-99); 89% ever screened coverage, 53% in the last 12 months, and 73% in the previous 3 years among women aged 18-69 years (2000-2001)

Table 3. Factors contributing to cervical cancer

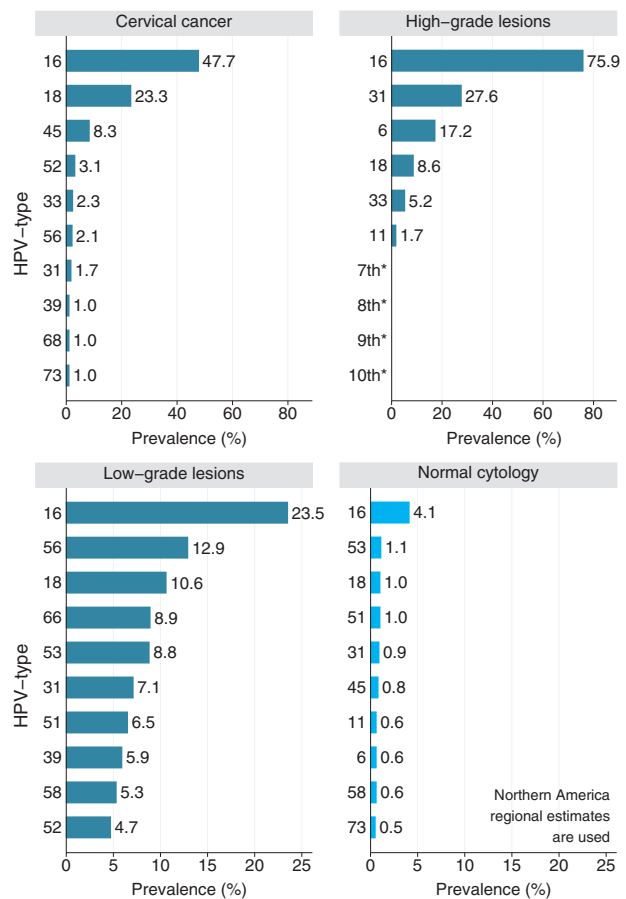
HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	17
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	14.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	2010	21.7 (19.9-23.6)
Low-grade lesions	170	87.6 (81.7-92.2)
High-grade lesions	58	98.3 (90.8-100.0)
Cervical cancer: any type	172	83.7* (77.3-88.9)
Cervical cancer: HPV 16/18	172	70.9 (63.5-77.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



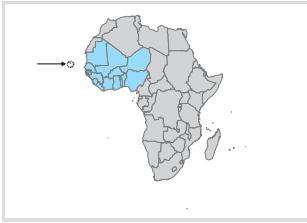
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

CAPE VERDE



has a population of 163052 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 47 women are diagnosed with cervical cancer and 38 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Cape Verde, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cape Verde. However, in Western Africa, the region Cape Verde belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.7	16
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	172	264
Annual number of new cases/deaths	47	38
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
 SIR/SMR: Standardized Incidence/Mortality Ratio.
 *No data available, calculated from the average of neighbouring countries.
 †Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

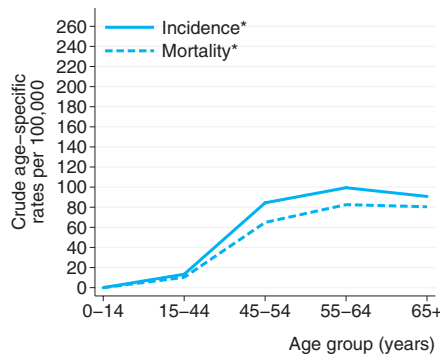


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.2
Oral Contraceptive Use (%)	18.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

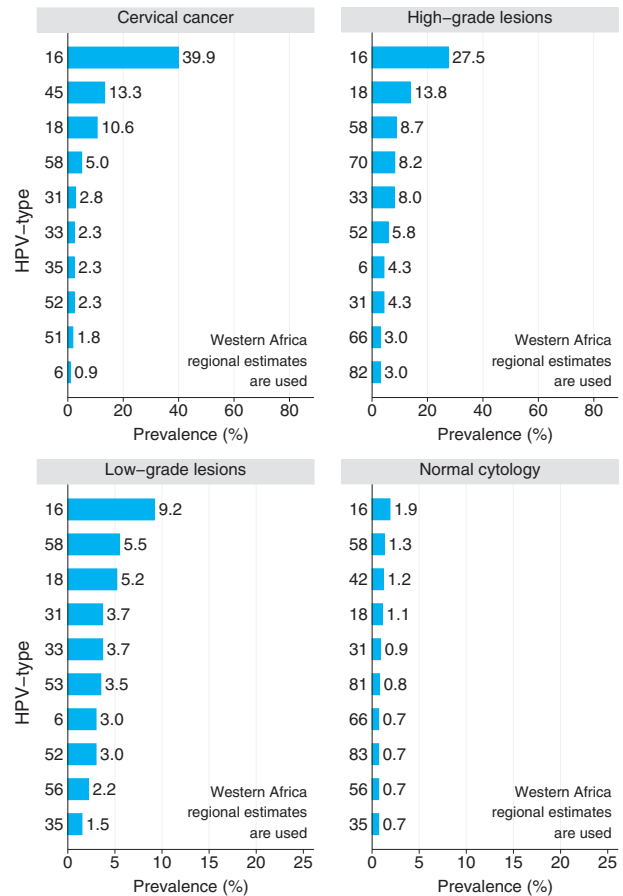
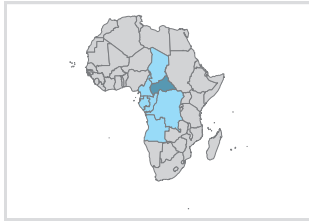


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	72
Percentage of districts with >=80% DTP3 coverage	29

DTP: Diphtheria, Tetanus and Pertussis

CENTRAL AFRICAN REPUBLIC



has a population of 1.20 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 374 women are diagnosed with cervical cancer and 306 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Central African Republic, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Central African Republic. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19	15.5
Age-standardized rate	28	23
Cumulative risk 0-64 years (%)	1.9	1.5
SIR/SMR	164	252
Annual number of new cases/deaths	374	306
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer
*No data available, calculated from the average of neighbouring countries.

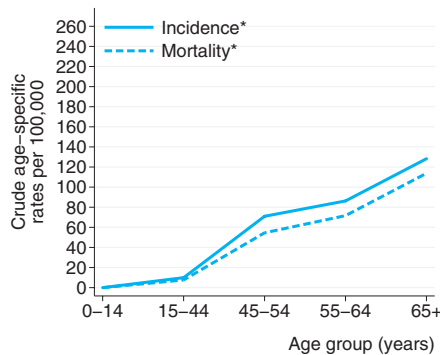


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	10.7
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	4.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	6226	23.0 (21.9-24.0)
Low-grade lesions†	301	59.1 (53.3-64.7)
High-grade lesions†	296	85.1 (80.6-89.0)
Cervical cancer: any type†	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18†	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

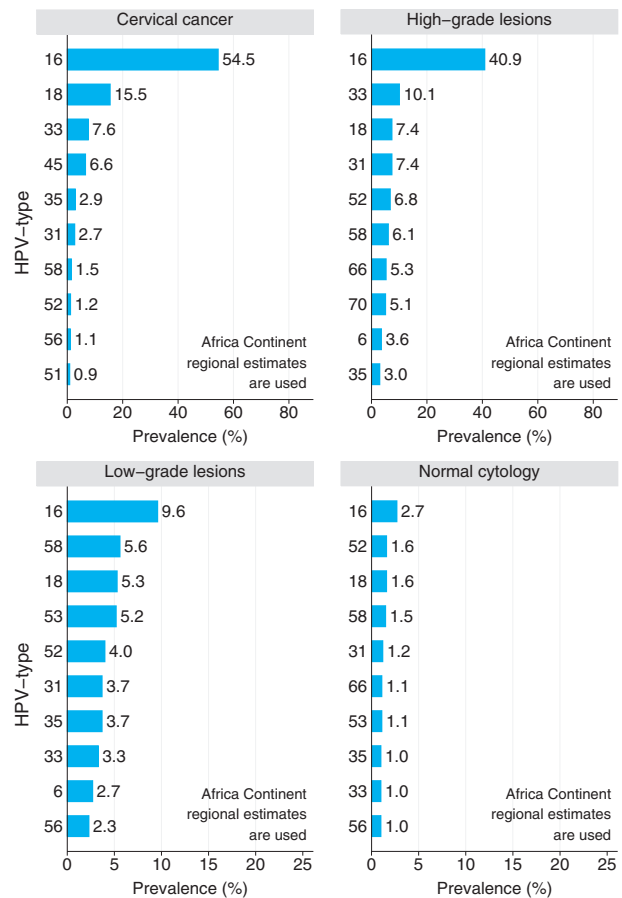
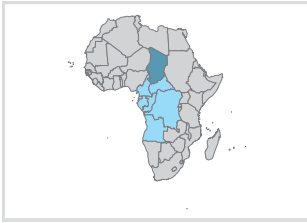


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	40
Percentage of districts with >=80% DTP3 coverage	63

DTP: Diphtheria, Tetanus and Pertussis

CHAD



has a population of 2.62 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 681 women are diagnosed with cervical cancer and 555 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Chad, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Chad. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	16.1	13.1
Age-standardized rate	28	23
Cumulative risk 0-64 years (%)	1.9	1.5
SIR/SMR	157	247
Annual number of new cases/deaths	681	555
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

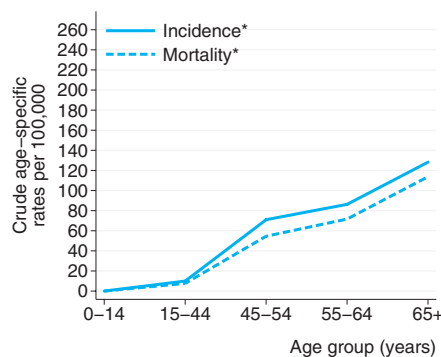


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.5
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	6.6
Oral Contraceptive Use (%)	1.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	6226	23.0 (21.9-24.0)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type‡	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18‡	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

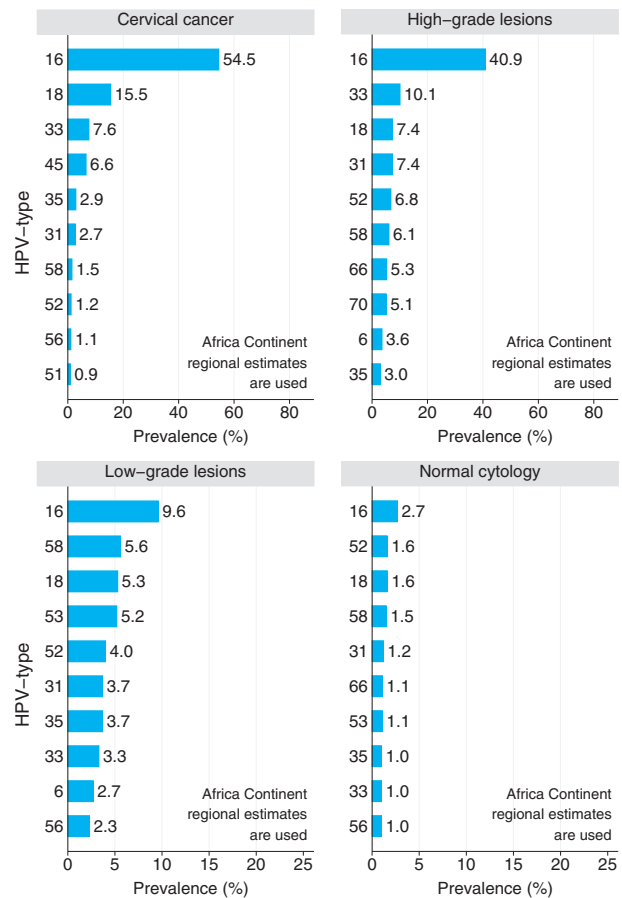


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	20
Percentage of districts with >=80% DTP3 coverage	43

DTP: Diphtheria, Tetanus and Pertussis

CHILE



has a population of 6.24 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2163 women are diagnosed with cervical cancer and 931 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Chile, and the 1st most frequent cancer among women between 15 and 44 years of age. About 11.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 56.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	27.5	11.9
Age-standardized rate	25.8	10.9
Cumulative risk 0-64 years (%)	1.7	0.6
SIR/SMR	163	126
Annual number of new cases/deaths	2163	931
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

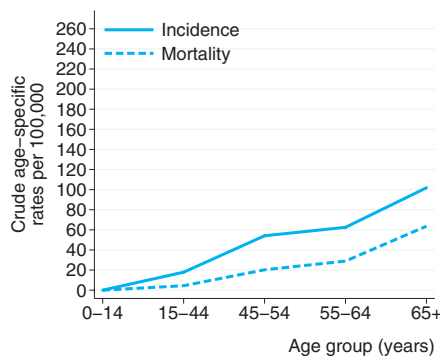


Table 2. Cervical screening coverage

68.3% in the past 3 years among women aged 25-64 years (2000)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	36.8
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	913	11.2 (9.2-13.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type	80	98.8* (93.2-100.0)
Cervical cancer: HPV 16/18	80	56.3 (44.7-67.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

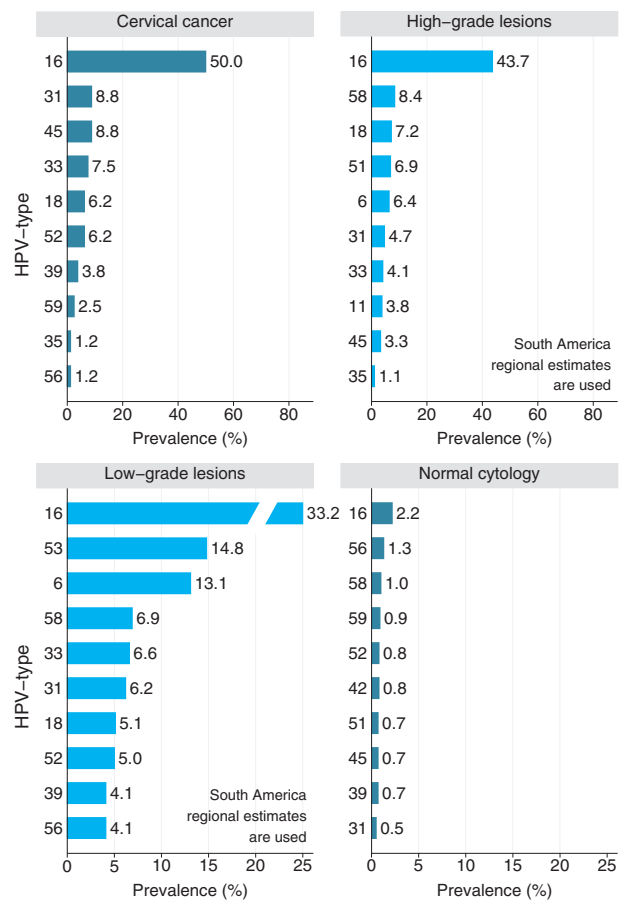


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with $\geq 80\%$ DTP3 coverage	73

DTP: Diphtheria, Tetanus and Pertussis

CHINA



has a population of 506.73 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 45689 women are diagnosed with cervical cancer and 25561 die from the disease. Cervical cancer ranks as the

7th most frequent cancer in women in China, and the 5th most frequent cancer among women between 15 and 44 years of age. About 13.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 69.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Separate HPV estimates for Taiwan are provided at <http://www.who.int/hpvcentre>

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	7.3	4.1
Age-standardized rate	6.8	3.8
Cumulative risk 0-64 years (%)	0.5	0.2
SIR/SMR	42	43
Annual number of new cases/deaths	45689	25561
Ranking of cervical cancer (all ages) †	7th	7th
Ranking of cervical cancer (15-44 years) †	5th	7th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

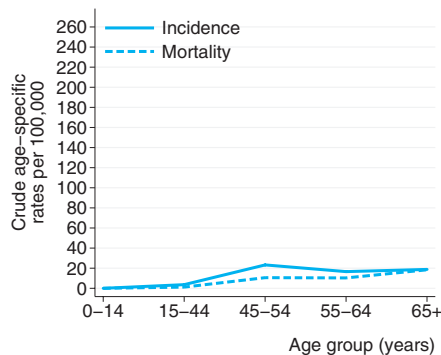


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

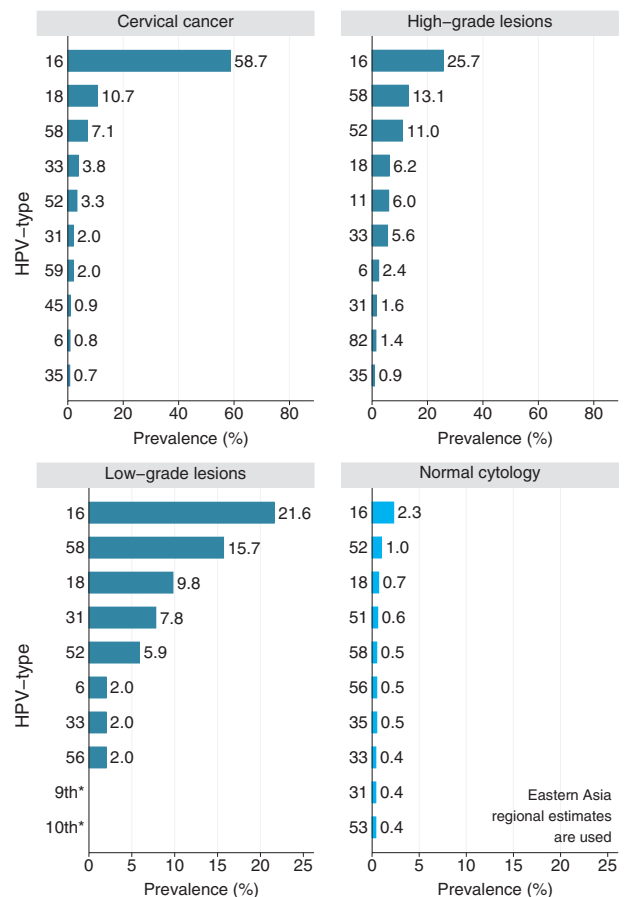
HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	4
Fertility rate (live births per women)	1.4
Oral Contraceptive Use (%)	1.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	2044	13.6 (12.1-15.1)
Low-grade lesions	51	64.7 (50.1-77.6)
High-grade lesions	416	66.6 (61.8-71.1)
Cervical cancer: any type	2698	84.1* (82.7-85.5)
Cervical cancer: HPV 16/18	2698	69.0 (67.2-70.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	99

DTP: Diphtheria, Tetanus and Pertussis

COLOMBIA



has a population of 16.15 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6815 women are diagnosed with cervical cancer and 3296 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Colombia, and the 1st most frequent cancer among women between 15 and 44 years of age. About 14.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 57.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	31	15
Age-standardized rate	36.4	18.2
Cumulative risk 0-64 years (%)	2.4	1.1
SIR/SMR	218	199
Annual number of new cases/deaths	6815	3296
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

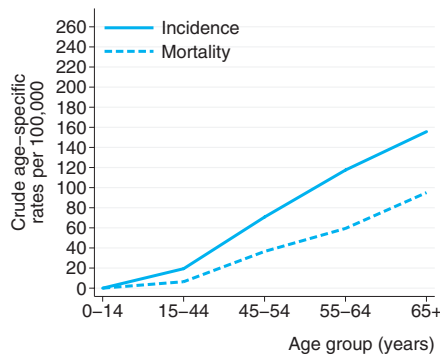


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

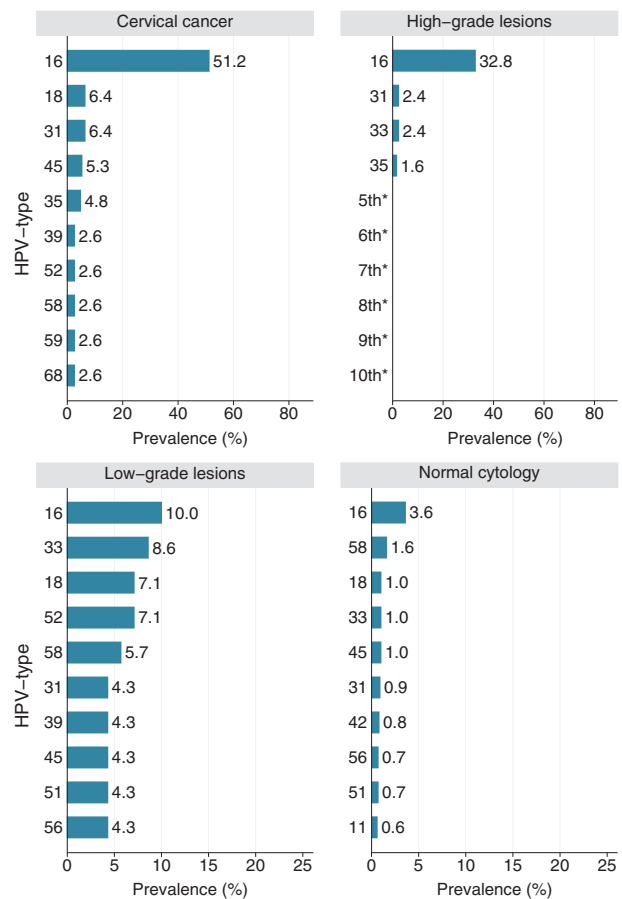
HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	11.3
Fertility rate (live births per women)	2.6
Oral Contraceptive Use (%)	11.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	2138	14.5 (13.0-16.0)
Low-grade lesions	70	55.7 (43.3-67.6)
High-grade lesions	125	63.2 (54.1-71.6)
Cervical cancer: any type	125	80* (71.9-86.6)
Cervical cancer: HPV 16/18	125	57.6 (48.4-66.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	86
Percentage of districts with >=80% DTP3 coverage	52

DTP: Diphtheria, Tetanus and Pertussis

COMOROS



has a population of 232207 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 97 women are diagnosed with cervical cancer and 79 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Comoros, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Comoros. However, in Eastern Africa, the region Comoros belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	26.1	20.9
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	249	392
Annual number of new cases/deaths	97	79
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

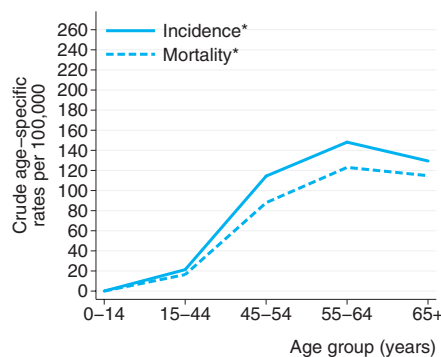


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.1
Oral Contraceptive Use (%)	8.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

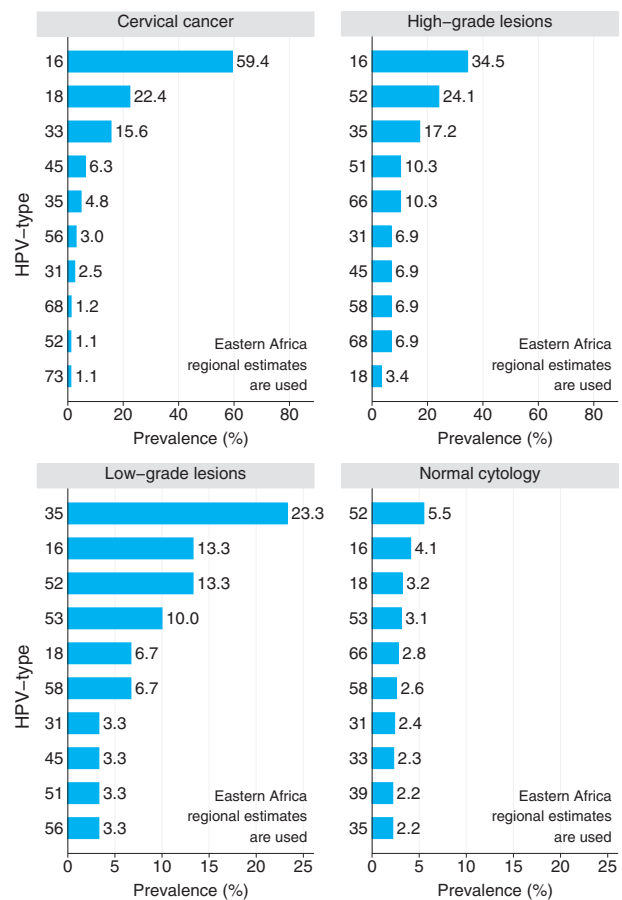


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	69
Percentage of districts with >=80% DTP3 coverage	41

DTP: Diphtheria, Tetanus and Pertussis

CONGO



has a population of 1.08 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 303 women are diagnosed with cervical cancer and 242 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Congo, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Congo. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.5	14.8
Age-standardized rate	30.5	24.6
Cumulative risk 0-64 years (%)	2.5	2
SIR/SMR	179	275
Annual number of new cases/deaths	303	242
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

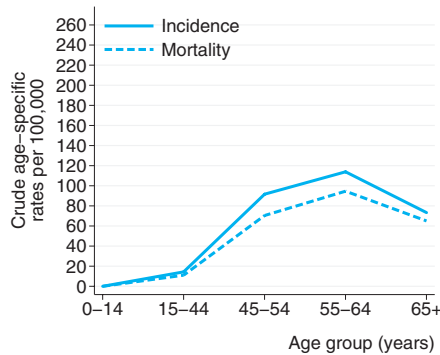


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	5.3
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.9
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	6226	23.0 (21.9-24.0)
Low-grade lesions †	301	59.1 (53.3-64.7)
High-grade lesions †	296	85.1 (80.6-89.0)
Cervical cancer: any type †	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18 †	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

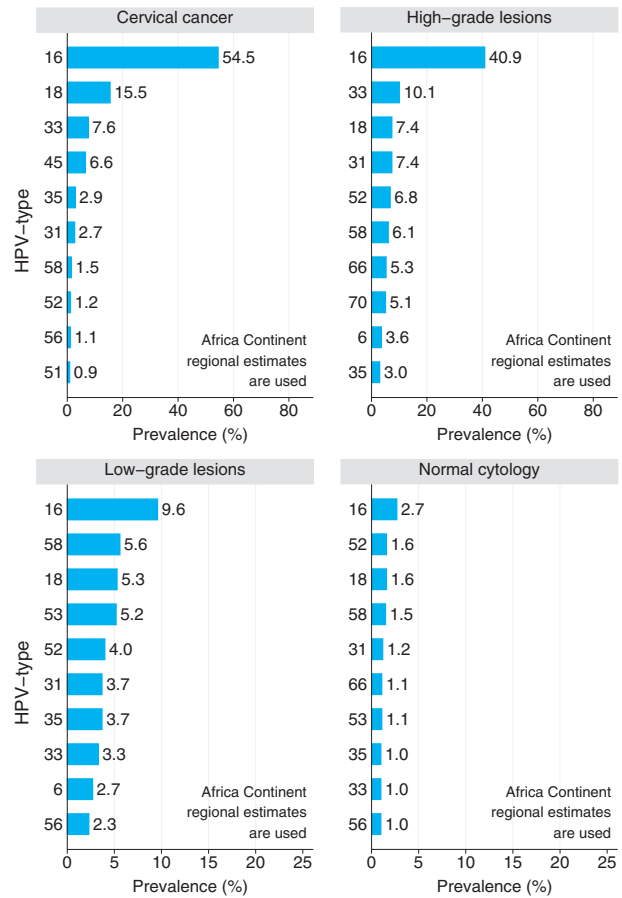


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	79
Percentage of districts with >=80% DTP3 coverage	44

DTP: Diphtheria, Tetanus and Pertussis

COOK ISLANDS



Data is not yet available on the burden of cervical cancer in Cook Islands. However, in Polynesia, the region Cook Islands belongs to, current estimates indicate that every year 72 women are diagnosed with cervical cancer and 38 die from the disease. Cervical cancer

ranks as the 2nd most frequent cancer in women in Polynesia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cook Islands, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

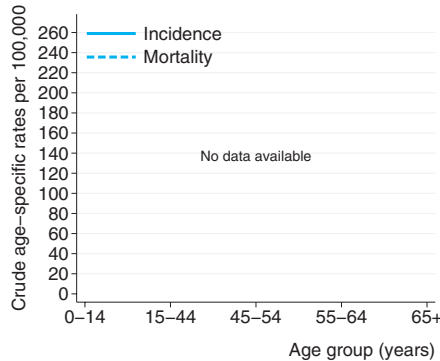


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

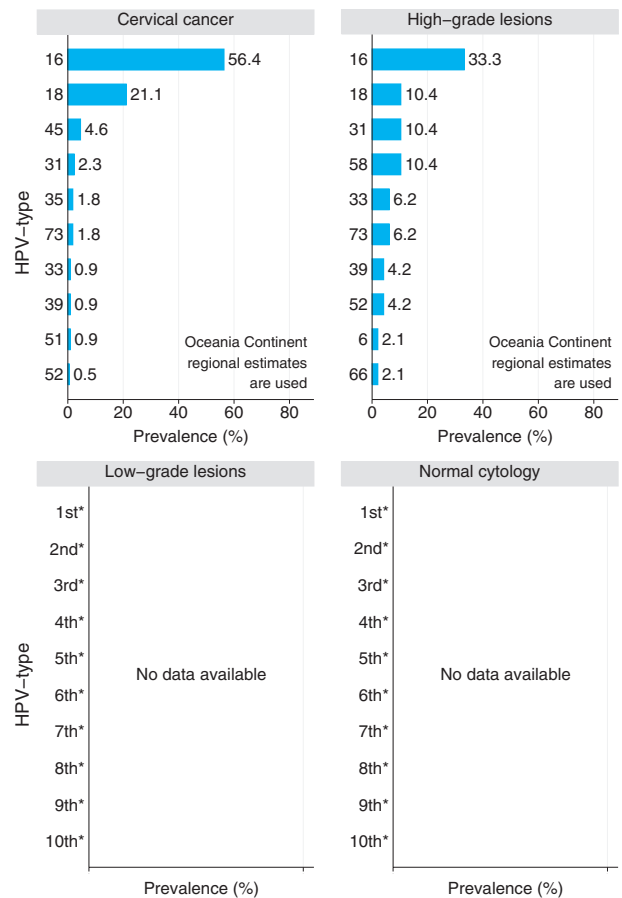
HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	22.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

COSTA RICA



has a population of 1.53 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 392 women are diagnosed with cervical cancer and 210 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Costa Rica, and the 1st most frequent cancer among women between 15 and 44 years of age. About 22.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 62.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	19	10.2
Age-standardized rate	21.5	12
Cumulative risk 0-64 years (%)	1.5	0.7
SIR/SMR	132	133
Annual number of new cases/deaths	392	210
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

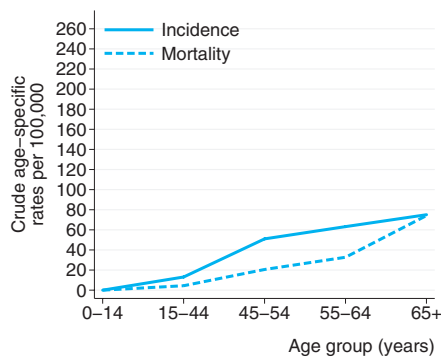


Table 2. Cervical screening coverage

66.9% in the last 12 months among women aged 15-49 years (1993); 87.8% ever had a smear among women aged 18 years and over (1995/96 Guanacaste)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	9.7
Fertility rate (live births per women)	2.4
Oral Contraceptive Use (%)	25.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	7459	22.4 (21.5-23.4)
Low-grade lesions	181	72.9 (65.8-79.3)
High-grade lesions	108	89.8 (82.5-94.8)
Cervical cancer: any type	35	97.1* (85.1-99.9)
Cervical cancer: HPV 16/18	35	62.9 (44.9-78.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

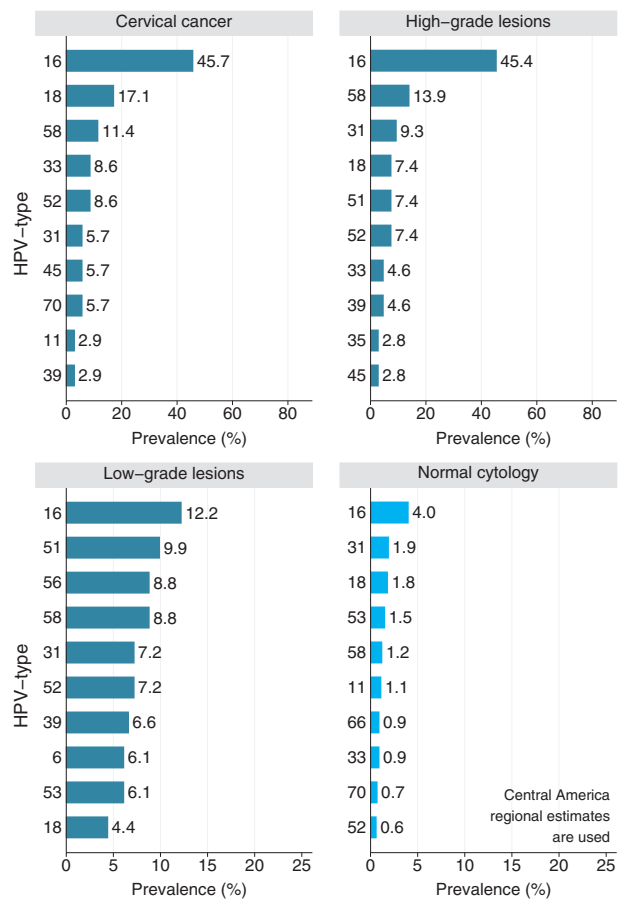


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	91
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

CROATIA



has a population of 2.02 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 431 women are diagnosed with cervical cancer and 209 die from the disease. Cervical cancer ranks as the 7th most

frequent cancer in women in Croatia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Croatia. However, in Southern Europe, the region Croatia belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18	8.7
Age-standardized rate	13.3	5
Cumulative risk 0-64 years (%)	1	0.3
SIR/SMR	78	63
Annual number of new cases/deaths	431	209
Ranking of cervical cancer (all ages) †	7th	7th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

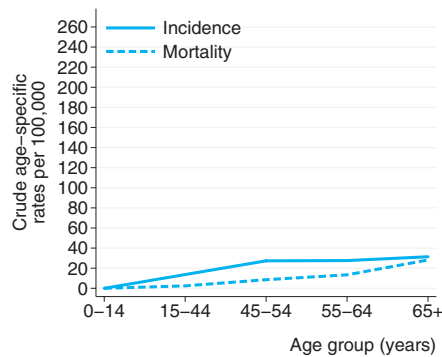


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	26.6
Fertility rate (live births per women)	1.4
Oral Contraceptive Use (%)	-

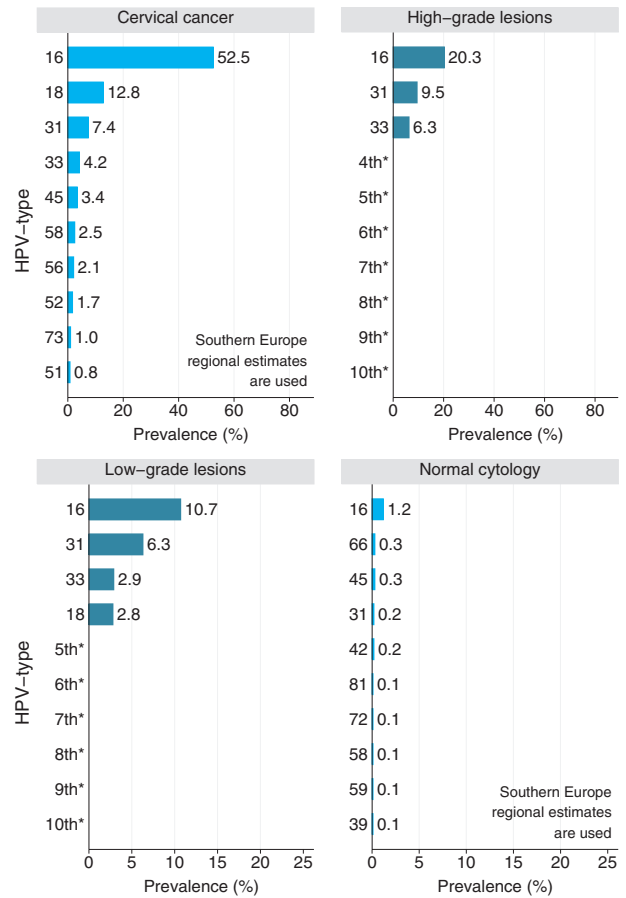
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions	1211	51.6 (48.8-54.5)
High-grade lesions	158	75.3 (67.8-81.8)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

CUBA



has a population of 4.58 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1346 women are diagnosed with cervical cancer and 567 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Cuba, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cuba. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Cuba 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24	10.1
Age-standardized rate	20.2	8.3
Cumulative risk 0-64 years (%)	1.5	0.6
SIR/SMR	124	91
Annual number of new cases/deaths	1346	567
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

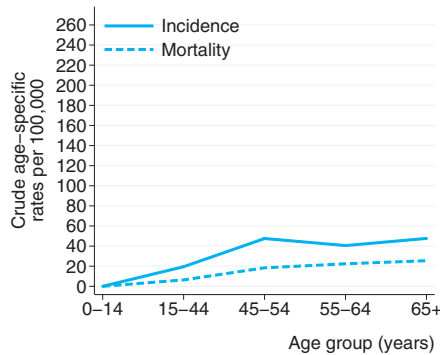


Table 2. Cervical screening coverage

70% (2004)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	26.2
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	3.6

Table 4. Burden of HPV in women with and without cervical disease

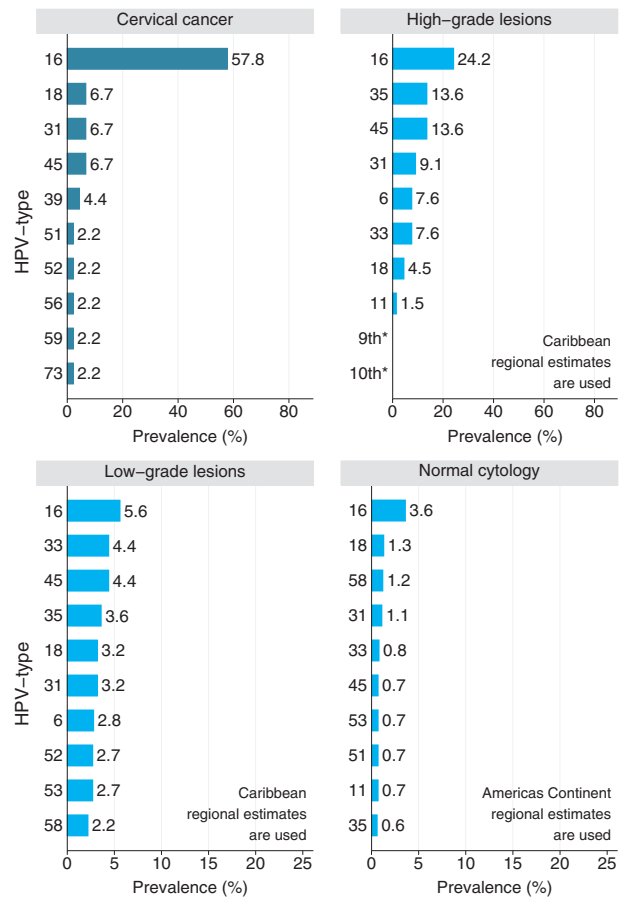
	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	89
Percentage of districts with >=80% DTP3 coverage	86

DTP: Diphtheria, Tetanus and Pertussis

CYPRUS



has a population of 347472 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 53 women are diagnosed with cervical cancer and 25 die from the disease. Cervical cancer ranks as the 4th most frequent

cancer in women in Cyprus, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Cyprus. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.1	6.2
Age-standardized rate	11.6	5.3
Cumulative risk 0-64 years (%)	0.9	0.4
SIR/SMR	64	52
Annual number of new cases/deaths	53	25
Ranking of cervical cancer (all ages) †	4th	7th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

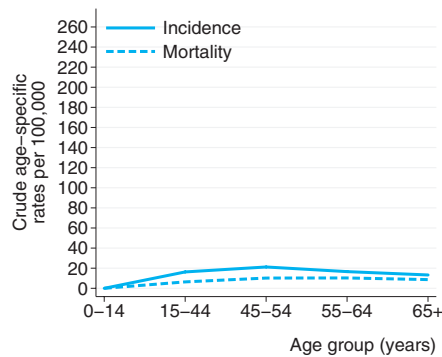


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	7.6
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

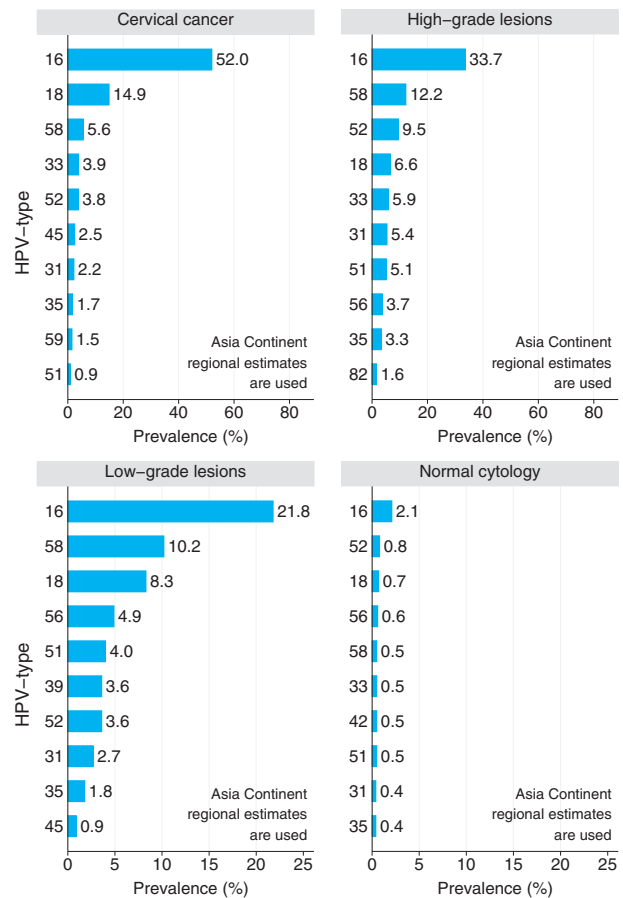


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	83

DTP: Diphtheria, Tetanus and Pertussis

CZECH REPUBLIC



has a population of 4.52 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1160 women are diagnosed with cervical cancer and 476 die from the disease. Cervical cancer ranks as the 6th

most frequent cancer in women in Czech Republic, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Czech Republic. However, in Eastern Europe, the region Czech Republic belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Czech Republic 69.4% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.1	9.1
Age-standardized rate	16.2	5.5
Cumulative risk 0-64 years (%)	1.2	0.4
SIR/SMR	94	64
Annual number of new cases/deaths	1160	476
Ranking of cervical cancer (all ages) †	6th	9th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

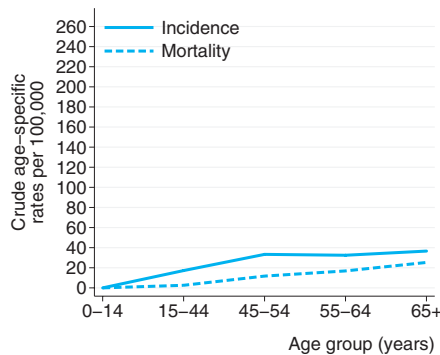


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	20.1
Fertility rate (live births per women)	1.1
Oral Contraceptive Use (%)	23.1

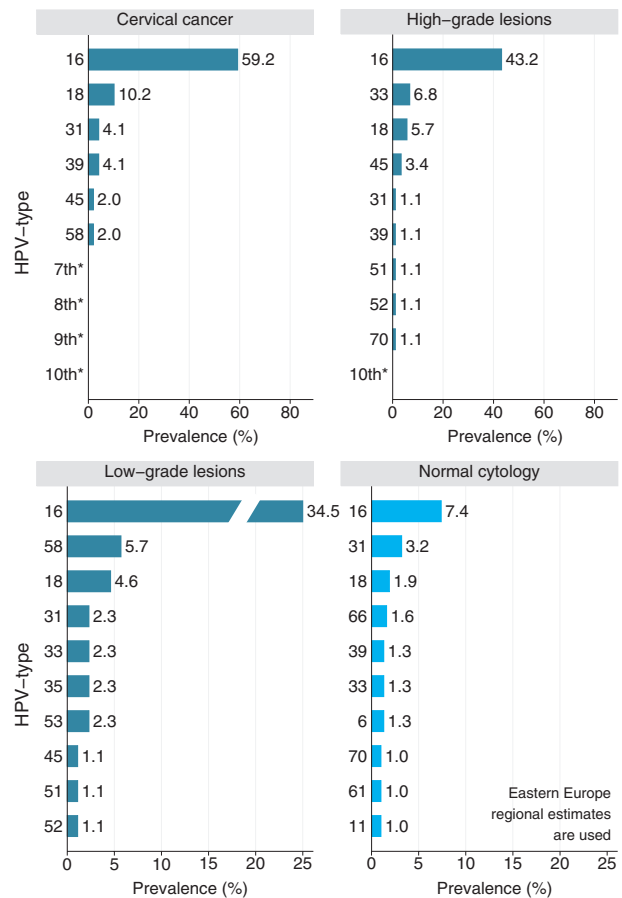
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions	87	52.9 (41.9-63.7)
High-grade lesions	88	58 (47.0-68.4)
Cervical cancer: any type	49	73.5* (58.9-85.1)
Cervical cancer: HPV 16/18	49	69.4 (54.6-81.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



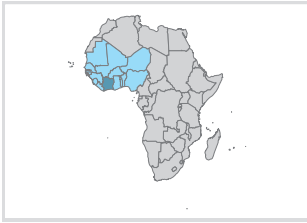
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

CÔTE D'IVOIRE



has a population of 5.13 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1497 women are diagnosed with cervical cancer and 1192 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Côte d'Ivoire, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Côte d'Ivoire. However, in Western Africa, the region Côte d'Ivoire belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.4	14.7
Age-standardized rate	30.1	24.3
Cumulative risk 0-64 years (%)	2.4	1.9
SIR/SMR	173	270
Annual number of new cases/deaths	1497	1192
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

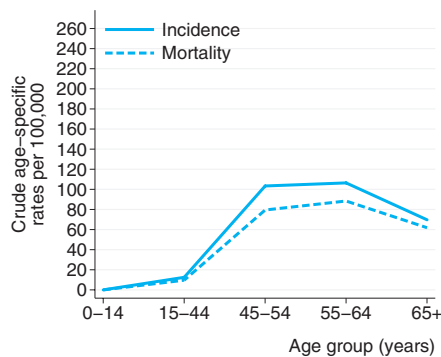


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	7.1
Smoking prevalence in women (%)	1.8
Fertility rate (live births per women)	5.1
Oral Contraceptive Use (%)	3.5

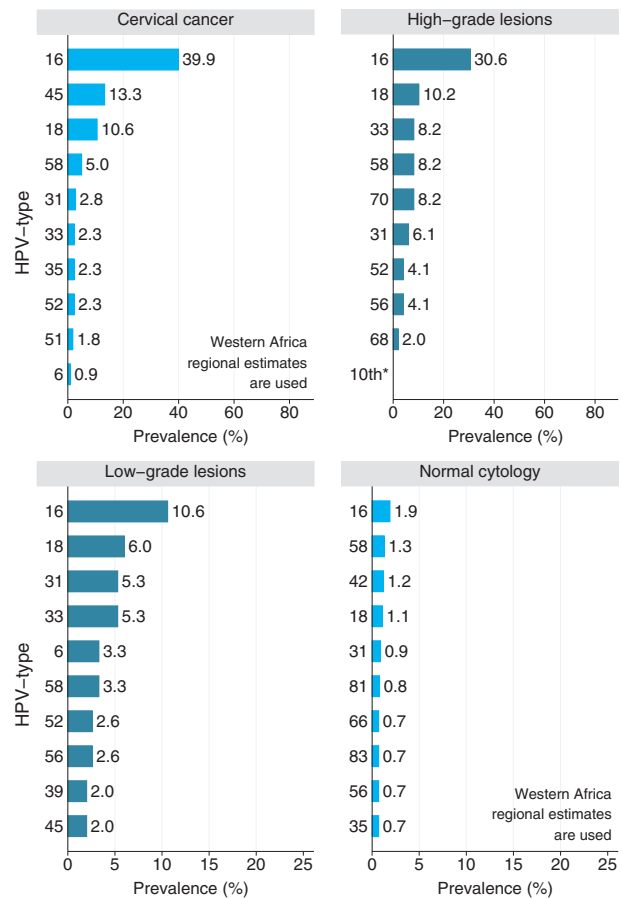
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions	151	68.2 (60.1-75.5)
High-grade lesions	49	77.6 (63.4-88.2)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	77
Percentage of districts with >=80% DTP3 coverage	46

DTP: Diphtheria, Tetanus and Pertussis

DPR KOREA



has a population of 8.50 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2150 women are diagnosed with cervical cancer and 558 die from the disease. Cervical cancer ranks as the 3rd

most frequent cancer in women in DPR Korea, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of DPR Korea. However, in Eastern Asia, the region DPR Korea belongs to, about 10.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 64.5% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.2	5
Age-standardized rate	17.9	4.7
Cumulative risk 0-64 years (%)	1.3	0.3
SIR/SMR	112	52
Annual number of new cases/deaths	2150	558
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
 SIR/SMR: Standardized Incidence/Mortality Ratio.
 *No data available, calculated from the average of neighbouring countries.
 †Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

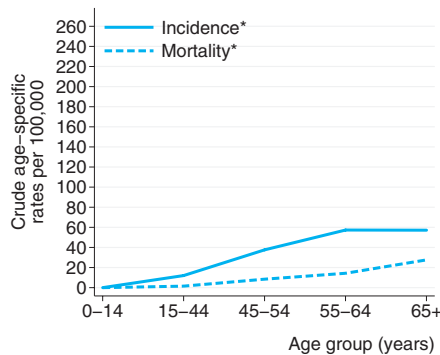


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	2.2
Oral Contraceptive Use (%)	0.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	17767	10.6 (10.1-11.0)
Low-grade lesions†	225	71.1 (64.7-76.9)
High-grade lesions†	1132	81.3 (78.9-83.5)
Cervical cancer: any type†	4176	83.8* (82.7-84.9)
Cervical cancer: HPV 16/18†	4176	64.5 (63.1-66.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
 †Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

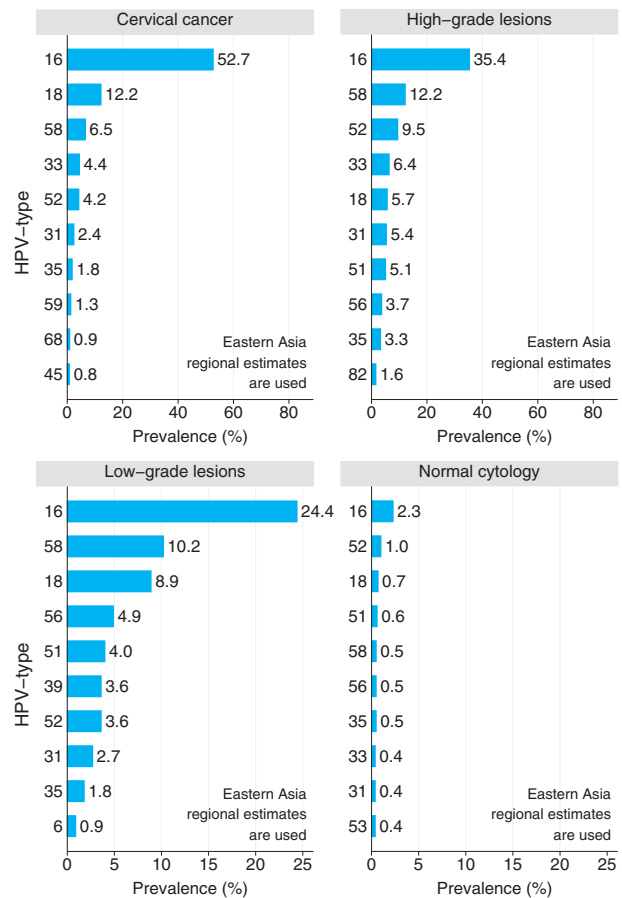
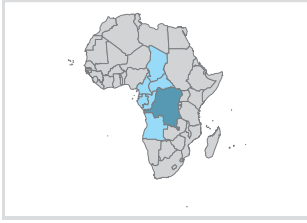


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	89
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

DR CONGO



has a population of 15.43 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 3709 women are diagnosed with cervical cancer and 3058 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in DR Congo, and the 4th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of DR Congo. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.5	11.1
Age-standardized rate	25.1	20.9
Cumulative risk 0-64 years (%)	1.4	1.1
SIR/SMR	138	220
Annual number of new cases/deaths	3709	3058
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	4th	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

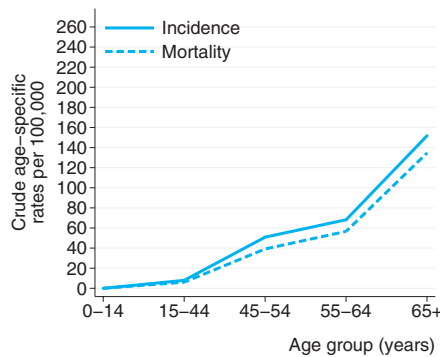


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.2
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	6.7
Oral Contraceptive Use (%)	1.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	6226	23.0 (21.9-24.0)
Low-grade lesions †	301	59.1 (53.3-64.7)
High-grade lesions †	296	85.1 (80.6-89.0)
Cervical cancer: any type †	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18 †	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

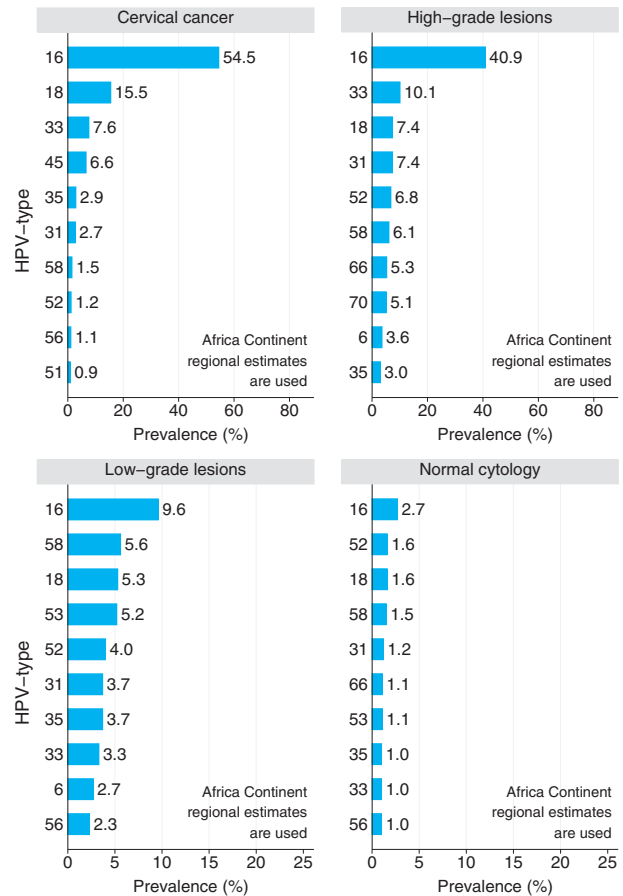


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	77
Percentage of districts with >=80% DTP3 coverage	44

DTP: Diphtheria, Tetanus and Pertussis

DENMARK



has a population of 2.25 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 439 women are diagnosed with cervical cancer and 230 die from the disease. Cervical cancer ranks as the 7th most

frequent cancer in women in Denmark, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 15.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.2% of invasive cervical cancers are attributed to HPVs 16 or 18.

Separate HPV estimates for Greenland are provided at <http://www.who.int/hpvcntr>

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.3	8.6
Age-standardized rate	12.6	5
Cumulative risk 0-64 years (%)	0.9	0.3
SIR/SMR	70	61
Annual number of new cases/deaths	439	230
Ranking of cervical cancer (all ages) †	7th	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

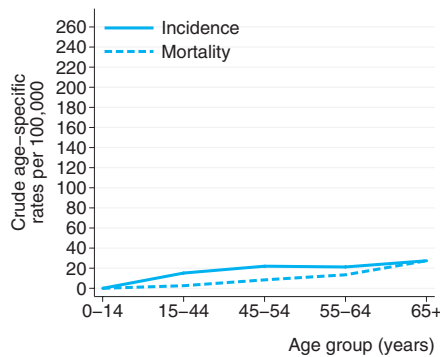


Table 2. Cervical screening coverage

85% Count of Funen, 73% Copenhagen

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	25
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	26.0

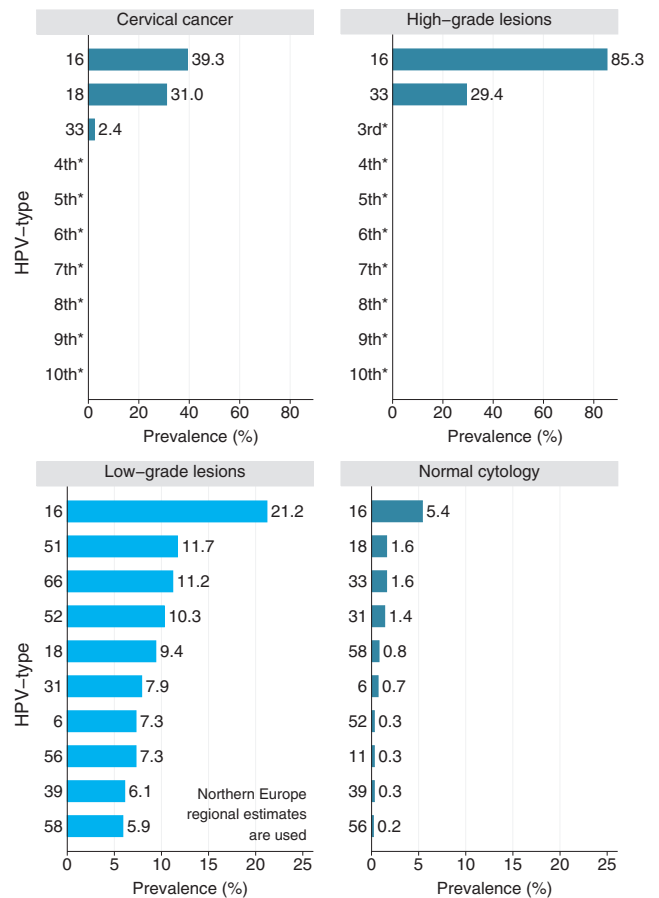
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1728	15.2 (13.5-16.9)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions	34	91.2 (76.3-98.1)
Cervical cancer: any type	84	76.2* (65.7-84.8)
Cervical cancer: HPV 16/18	84	70.2 (59.3-79.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

DJIBOUTI



has a population of 233184 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 113 women are diagnosed with cervical cancer and 90 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Djibouti, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Djibouti. However, in Eastern Africa, the region Djibouti belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	33.3	26.8
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	257	387
Annual number of new cases/deaths	113	90
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

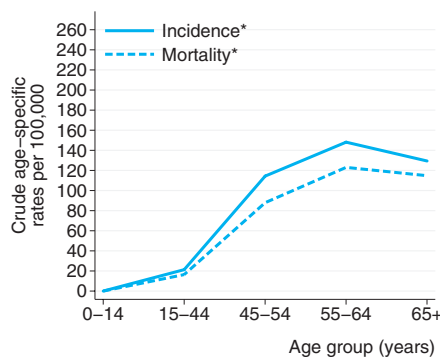


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.1
Smoking prevalence in women (%)	10
Fertility rate (live births per women)	6.0
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

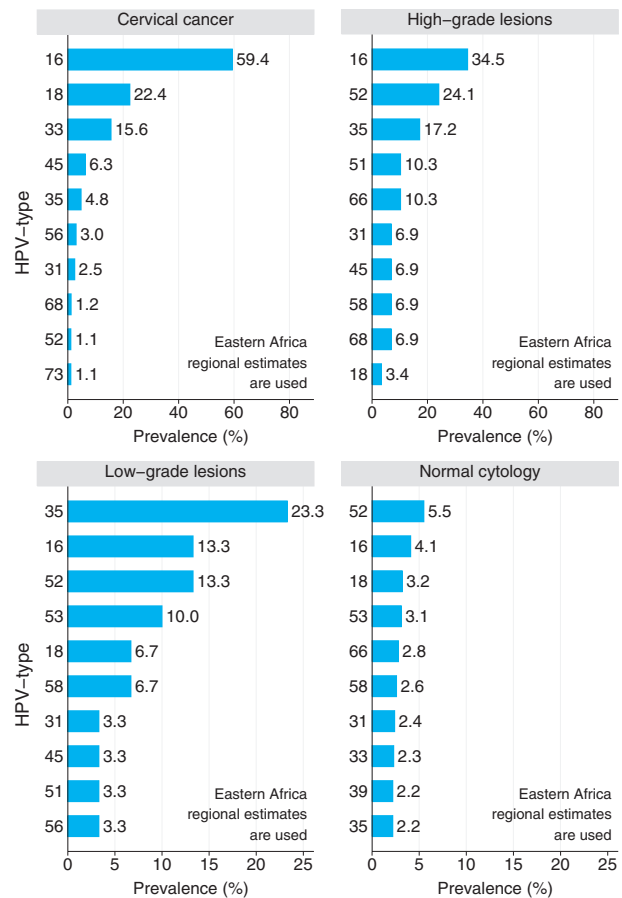


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	72
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

DOMINICA



Data is not yet available on the burden of cervical cancer in Dominica. However, in Caribbean, the region Dominica belongs to, current estimates indicate that every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease. Cervical cancer

ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Dominica. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

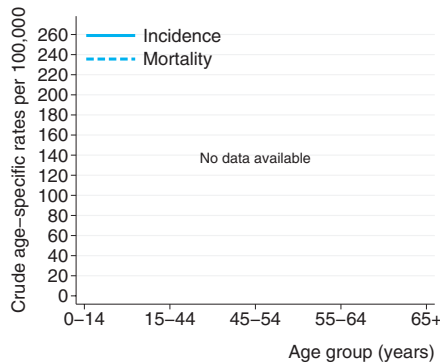


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	16.5

Table 4. Burden of HPV in women with and without cervical disease

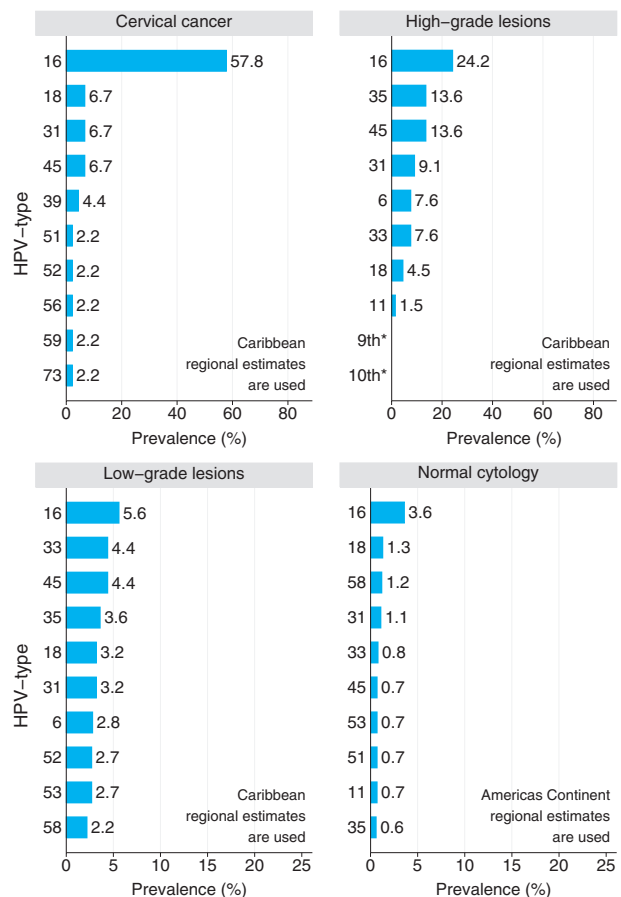
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

DOMINICAN REPUBLIC



has a population of 2.98 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1032 women are diagnosed with cervical cancer and 562 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Dominican Republic, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Dominican Republic. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Dominican Republic belongs to, about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24.3	13.3
Age-standardized rate	30.8	17.3
Cumulative risk 0-64 years (%)	2.1	1
SIR/SMR	178	184
Annual number of new cases/deaths	1032	562
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

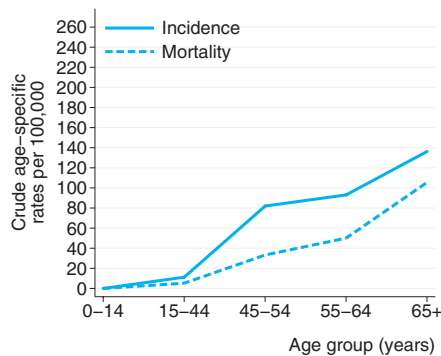


Table 2. Cervical screening coverage

44.8% in the last 12 months among women aged 15-49 years (1996)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.1
Smoking prevalence in women (%)	10.9
Fertility rate (live births per women)	2.9
Oral Contraceptive Use (%)	13.5

Table 4. Burden of HPV in women with and without cervical disease

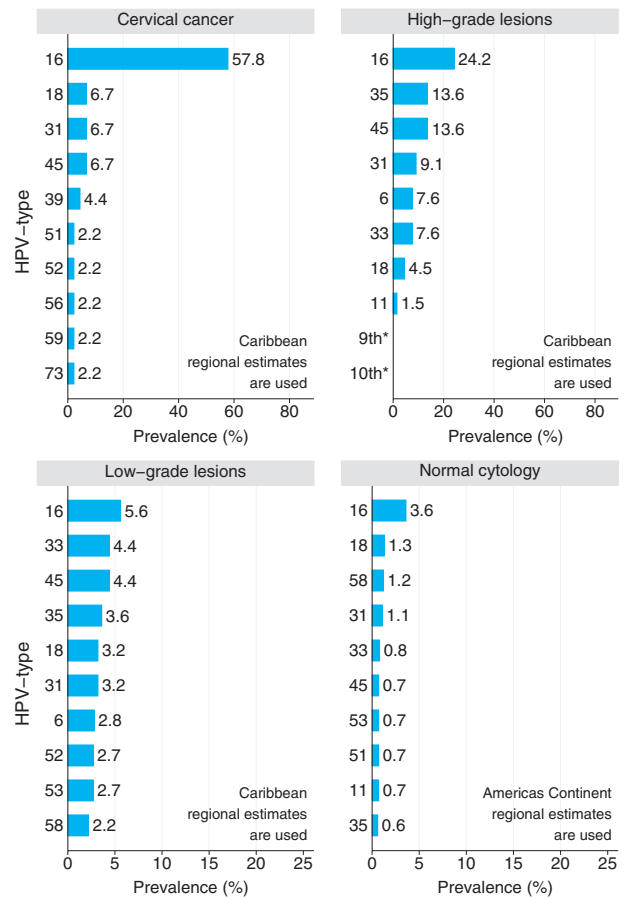
	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	40399	15.6 (15.2-15.9)
Low-grade lesions †	248	60.9 (54.5-67.0)
High-grade lesions †	66	80.3 (68.7-89.1)
Cervical cancer: any type †	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18 †	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	81
Percentage of districts with >=80% DTP3 coverage	44

DTP: Diphtheria, Tetanus and Pertussis

ECUADOR



has a population of 4.49 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1978 women are diagnosed with cervical cancer and 1064 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Ecuador, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Ecuador. However, in South America, the region Ecuador belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.4	16.3
Age-standardized rate	38.7	21
Cumulative risk 0-64 years (%)	2.4	1.2
SIR/SMR	224	227
Annual number of new cases/deaths	1978	1064
Ranking of cervical cancer (all ages) †	1st	2nd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

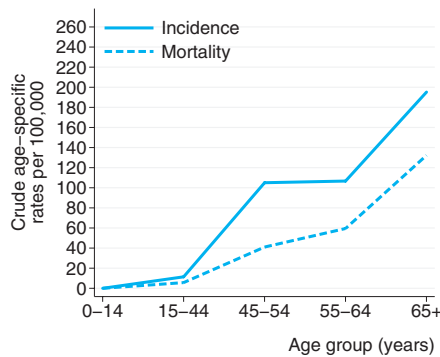


Table 2. Cervical screening coverage

72.2% in the last 12 months among women aged 15-49 years (1994)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	17.4
Fertility rate (live births per women)	3.3
Oral Contraceptive Use (%)	11.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type†	1041	91.1* (89.2-92.7)
Cervical cancer: HPV 16/18†	1041	67.3 (64.4-70.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

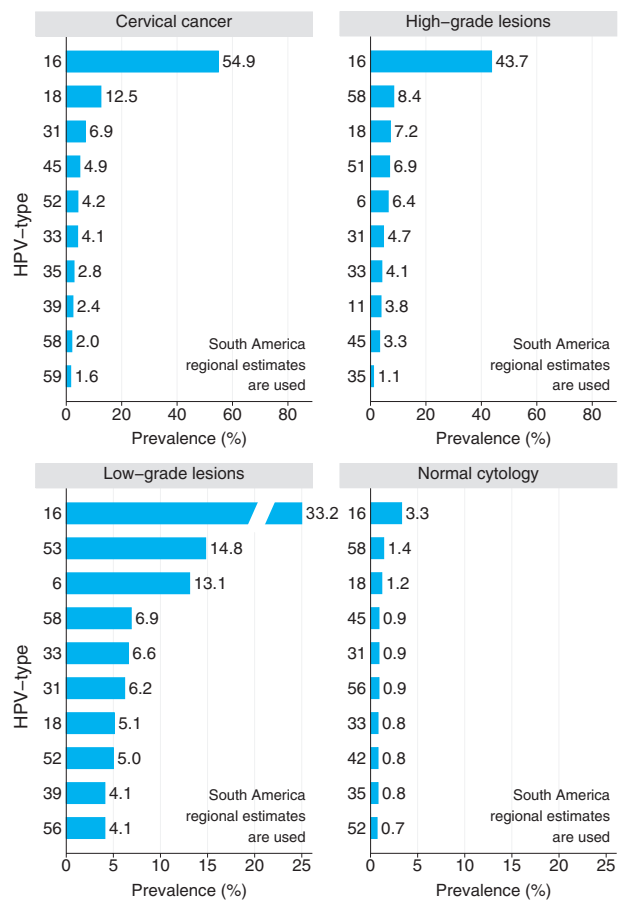
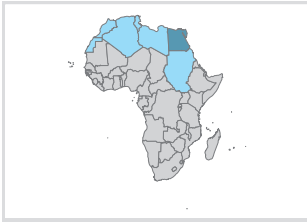


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	77

DTP: Diphtheria, Tetanus and Pertussis

EGYPT



has a population of 24.75 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2713 women are diagnosed with cervical cancer and 2178 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Egypt, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Egypt. However, in Northern Africa, the region Egypt belongs to, about 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 72.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	7.8	6.3
Age-standardized rate	9.7	7.9
Cumulative risk 0-64 years (%)	0.8	0.6
SIR/SMR	58	88
Annual number of new cases/deaths	2713	2178
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

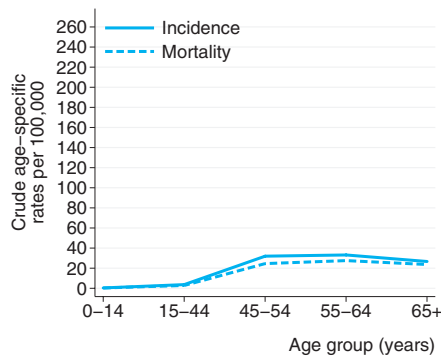


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	18
Fertility rate (live births per women)	3.6
Oral Contraceptive Use (%)	9.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type†	335	95.5* (92.7-97.5)
Cervical cancer: HPV 16/18†	335	72.5 (67.4-77.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

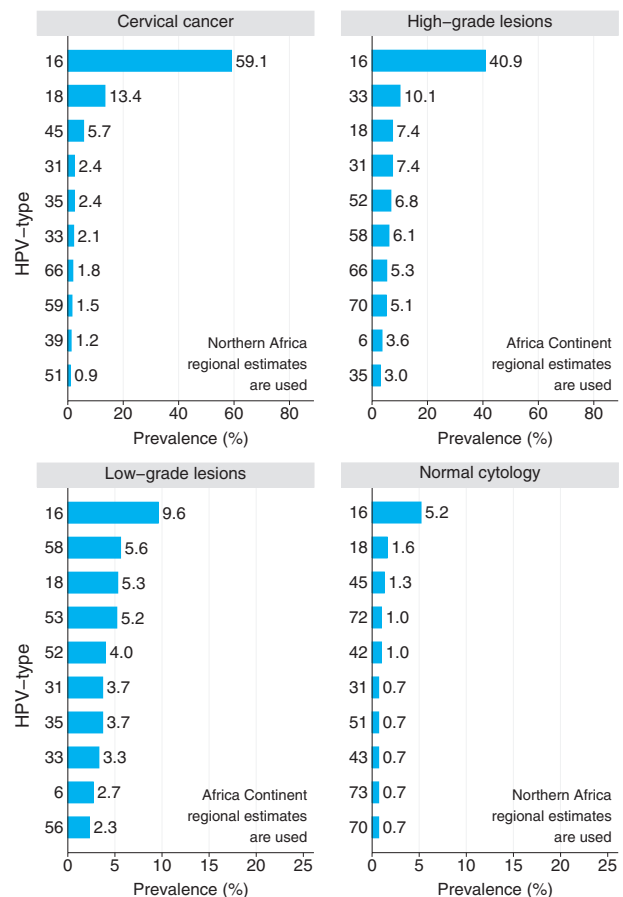


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with ≥80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

EL SALVADOR



has a population of 2.35 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1213 women are diagnosed with cervical cancer and 609 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in El Salvador, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of El Salvador. However, in Central America, the region El Salvador belongs to, about 20.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 58.4% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	36.6	18.4
Age-standardized rate	45.6	23.5
Cumulative risk 0-64 years (%)	3.3	1.5
SIR/SMR	277	260
Annual number of new cases/deaths	1213	609
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

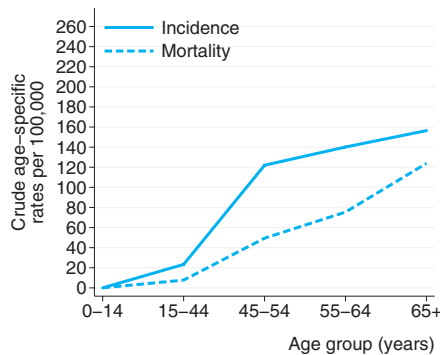


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	14.8
Fertility rate (live births per women)	3.6
Oral Contraceptive Use (%)	5.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	10232	20.5 (19.7-21.3)
Low-grade lesions†	390	55.1 (50.0-60.1)
High-grade lesions†	280	86.8 (82.2-90.5)
Cervical cancer: any type†	341	90.3* (86.7-93.2)
Cervical cancer: HPV 16/18†	341	58.4 (52.9-63.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Central America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

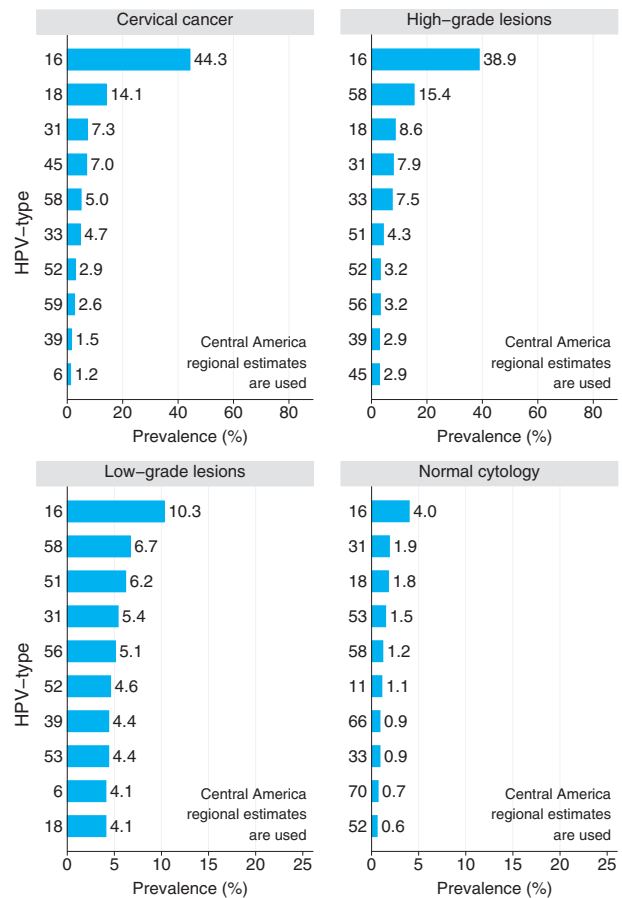


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	52

DTP: Diphtheria, Tetanus and Pertussis

EQUATORIAL GUINEA



has a population of 142517 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 45 women are diagnosed with cervical cancer and 37 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Equatorial Guinea, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Equatorial Guinea. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.5	15.1
Age-standardized rate	28	23
Cumulative risk 0-64 years (%)	1.9	1.5
SIR/SMR	162	250
Annual number of new cases/deaths	45	37
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

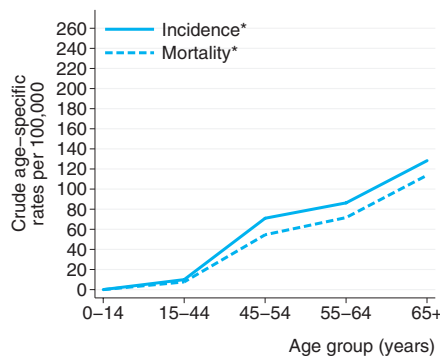


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.2
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	6226	23.0 (21.9-24.0)
Low-grade lesions ‡	301	59.1 (53.3-64.7)
High-grade lesions ‡	296	85.1 (80.6-89.0)
Cervical cancer: any type ‡	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18 ‡	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

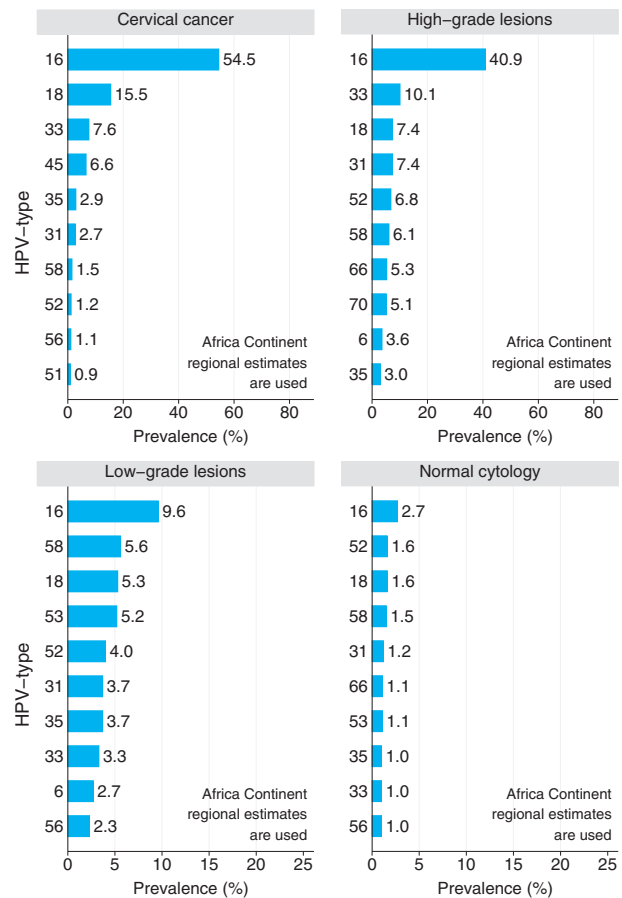
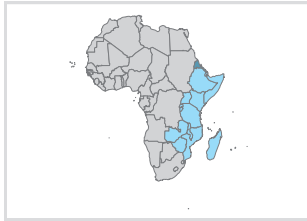


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	33
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ERITREA



has a population of 1.26 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 548 women are diagnosed with cervical cancer and 438 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Eritrea, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Eritrea. However, in Eastern Africa, the region Eritrea belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	27.3	21.9
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	252	390
Annual number of new cases/deaths	548	438
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

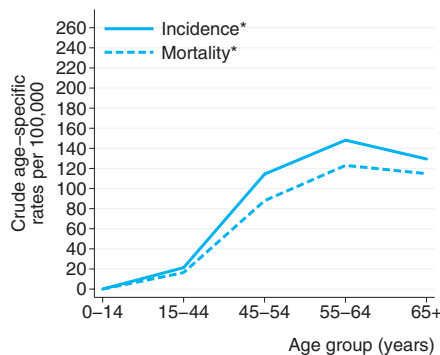


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.4
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	1.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

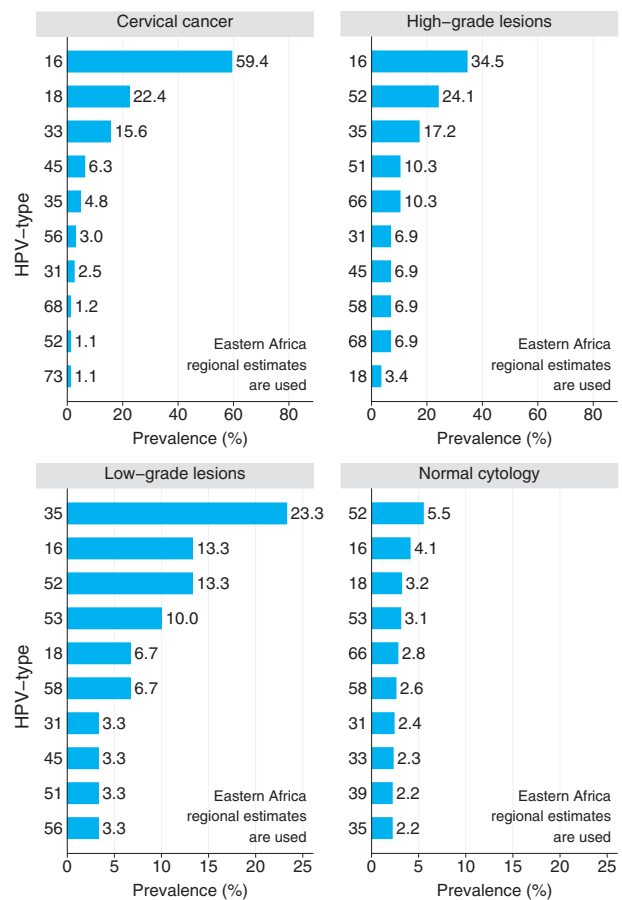


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	17

DTP: Diphtheria, Tetanus and Pertussis

ESTONIA



has a population of 619591 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 156 women are diagnosed with cervical cancer and 74 die from the disease. Cervical cancer ranks as the 6th most frequent

cancer in women in Estonia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Estonia. However, in Northern Europe, the region Estonia belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 76.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	21.4	10.3
Age-standardized rate	15.5	6.6
Cumulative risk 0-64 years (%)	1.2	0.5
SIR/SMR	90	72
Annual number of new cases/deaths	156	74
Ranking of cervical cancer (all ages) †	6th	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

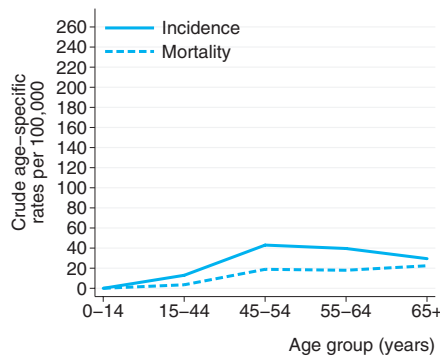


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.3
Smoking prevalence in women (%)	17.9
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	3.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions†	987	85.8 (83.5-87.9)
Cervical cancer: any type†	2152	86.2* (84.7-87.7)
Cervical cancer: HPV 16/18†	2152	76.5 (74.6-78.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

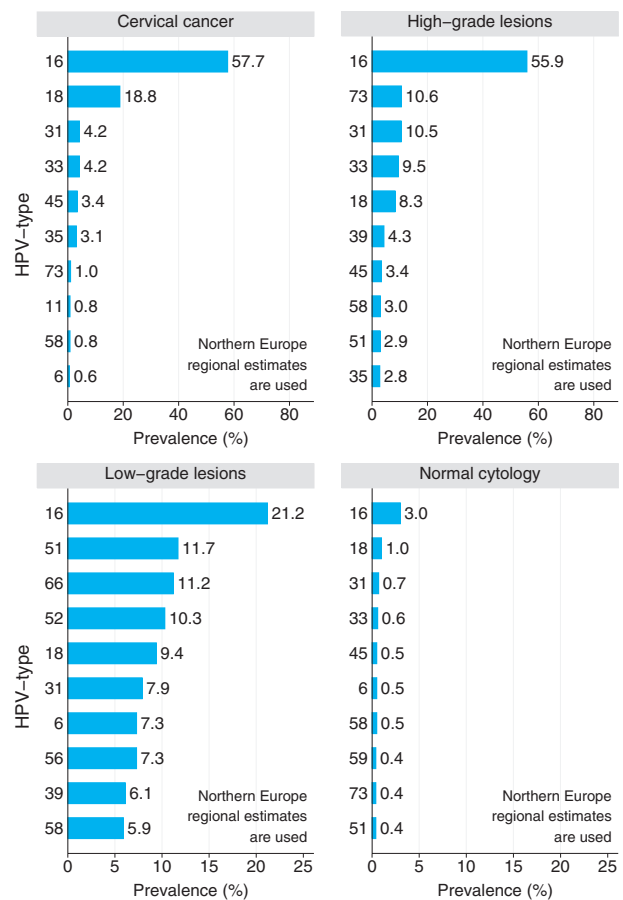
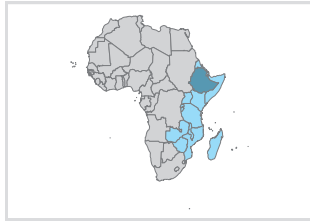


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

ETHIOPIA



has a population of 21.76 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 7619 women are diagnosed with cervical cancer and 6081 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Ethiopia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Ethiopia. However, in Eastern Africa, the region Ethiopia belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Ethiopia 90.2% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	23	18.3
Age-standardized rate	35.9	29
Cumulative risk 0-64 years (%)	2.8	2.2
SIR/SMR	218	336
Annual number of new cases/deaths	7619	6081
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

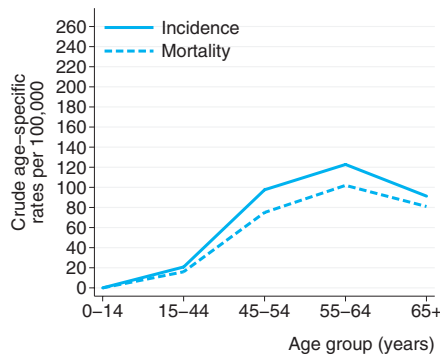


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

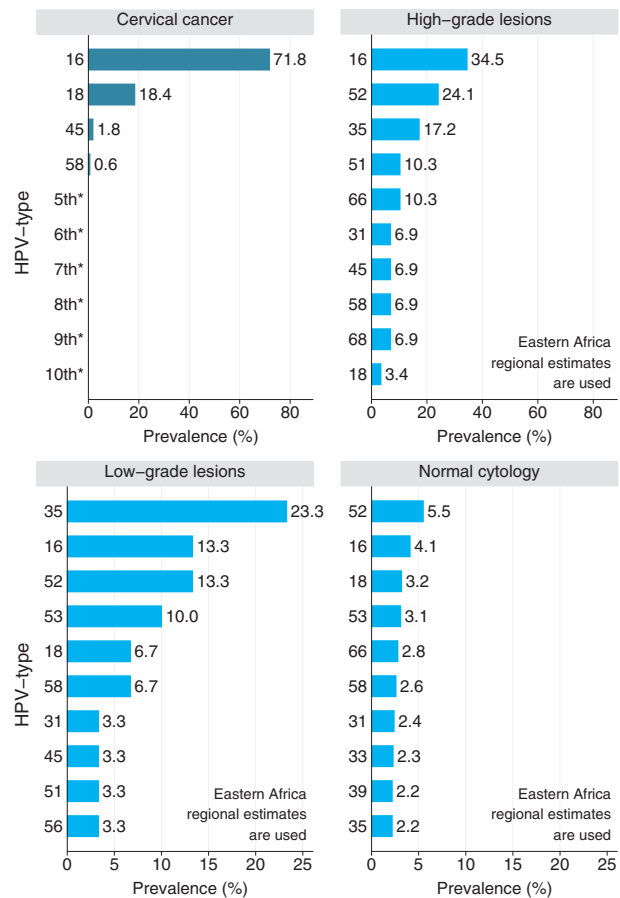
HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	0.3
Fertility rate (live births per women)	5.9
Oral Contraceptive Use (%)	2.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type	163	96.9* (93.0-99.0)
Cervical cancer: HPV 16/18	163	90.2 (84.5-94.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	72
Percentage of districts with >=80% DTP3 coverage	34

DTP: Diphtheria, Tetanus and Pertussis

FIJI



has a population of 286680 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 113 women are diagnosed with cervical cancer and 61 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Fiji, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Fiji, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	27.6	15.1
Age-standardized rate	33.4	18.7
Cumulative risk 0-64 years (%)	2.5	1.4
SIR/SMR	199	209
Annual number of new cases/deaths	113	61
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

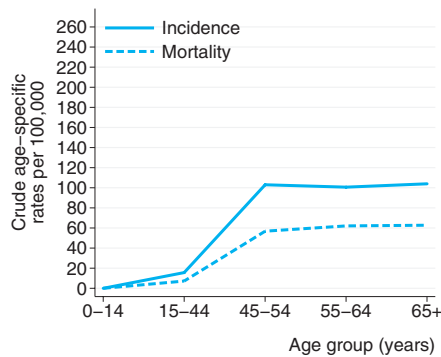


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	3.9
Fertility rate (live births per women)	3.4
Oral Contraceptive Use (%)	-

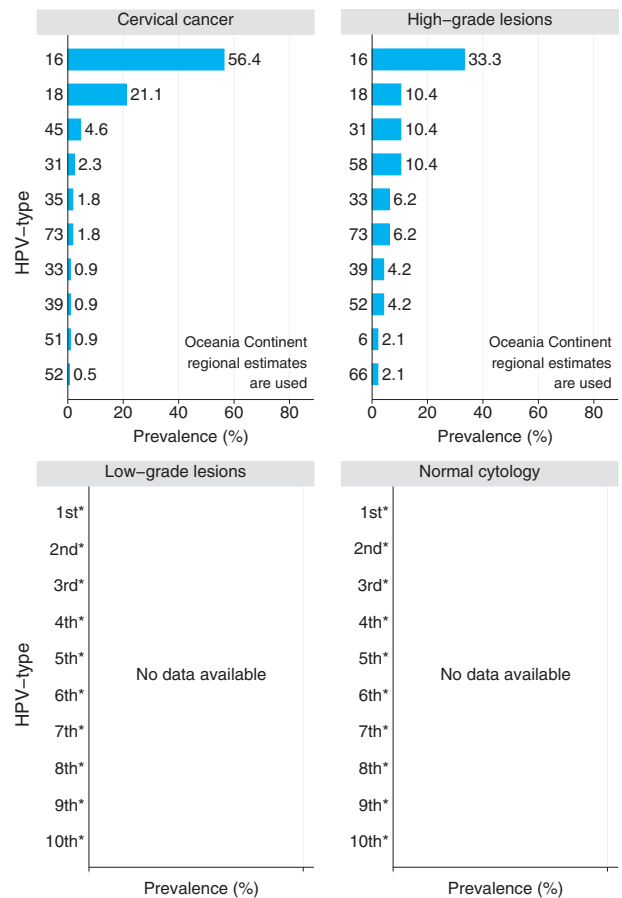
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	81
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

FINLAND



has a population of 2.23 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 164 women are diagnosed with cervical cancer and 81 die from the disease. Cervical cancer ranks as the 15th most

frequent cancer in women in Finland, and the 4th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Finland. However, in Northern Europe, the region Finland belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Finland 88.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	6.2	3
Age-standardized rate	4.3	1.8
Cumulative risk 0-64 years (%)	0.3	0.1
SIR/SMR	26	21
Annual number of new cases/deaths	164	81
Ranking of cervical cancer (all ages) †	15th	15th
Ranking of cervical cancer (15-44 years) †	4th	5th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

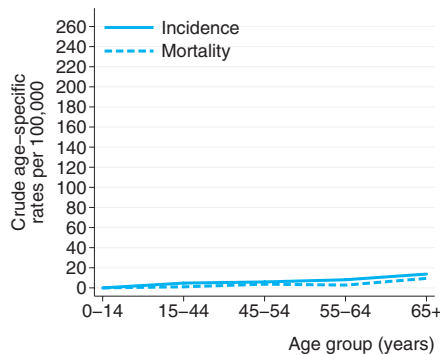


Table 2. Cervical screening coverage

70% in organized screening and 93% among women in the target population (2003)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	19.3
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	11.3

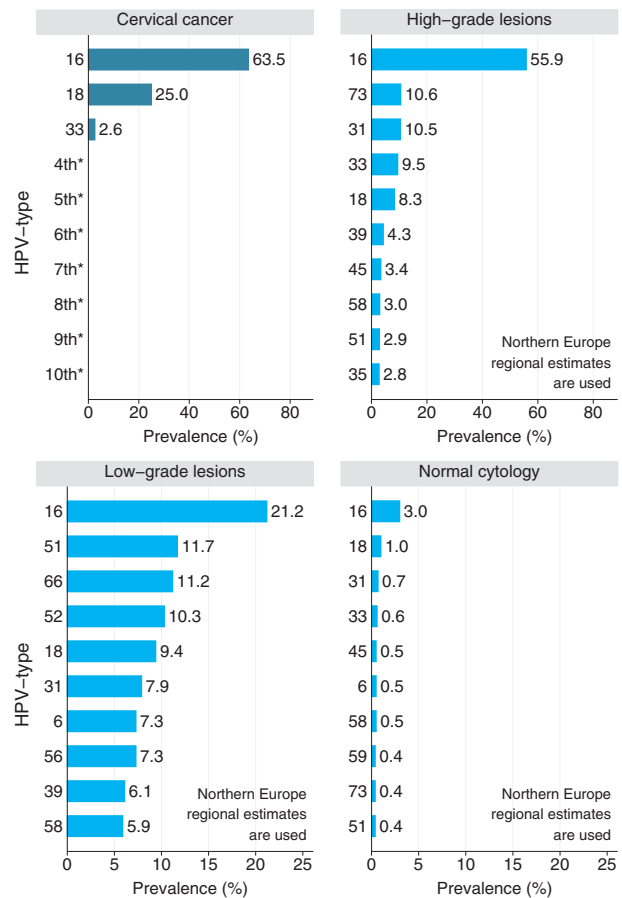
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions†	987	85.8 (83.5-87.9)
Cervical cancer: any type	460	88* (84.7-90.9)
Cervical cancer: HPV 16/18	460	88.5 (85.2-91.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

FRANCE



has a population of 25.67 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4149 women are diagnosed with cervical cancer and 1647 die from the disease. Cervical cancer ranks as the 7th

most frequent cancer in women in France, and the 3rd most frequent cancer among women between 15 and 44 years of age. About 12.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.6	5.4
Age-standardized rate	9.8	3.1
Cumulative risk 0-64 years (%)	0.7	0.2
SIR/SMR	60	39
Annual number of new cases/deaths	4149	1647
Ranking of cervical cancer (all ages) †	7th	10th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

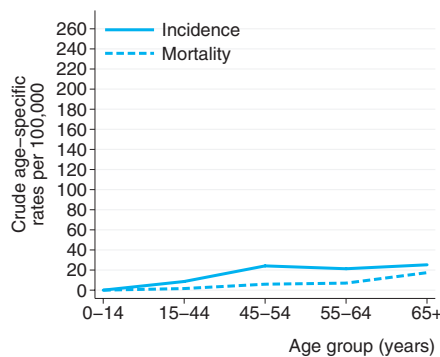


Table 2. Cervical screening coverage

54% in the last 3 years among women aged 20-69 years (1998-2000); 60% were screened in the last 3 years among women aged 25-65 years (2000)

Table 3. Factors contributing to cervical cancer

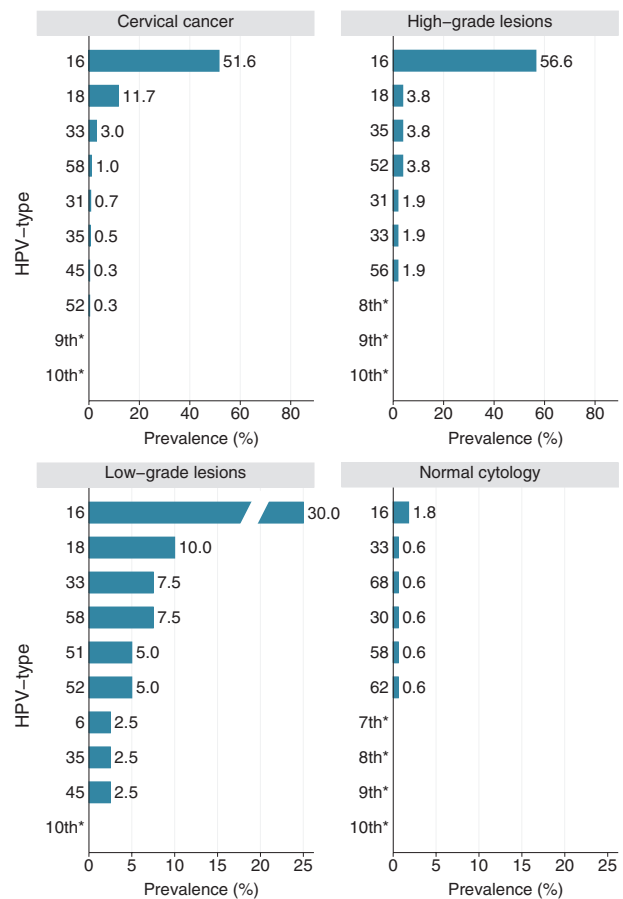
HIV rate (%) in adults (15-49 years)	0.4
Smoking prevalence in women (%)	21.2
Fertility rate (live births per women)	1.8
Oral Contraceptive Use (%)	35.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	9070	12.1 (11.5-12.8)
Low-grade lesions	40	60 (43.3-75.1)
High-grade lesions	53	92.5 (81.8-97.9)
Cervical cancer: any type	403	83.1* (79.1-86.7)
Cervical cancer: HPV 16/18	403	63.3 (58.4-68.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

GABON



has a population of 419948 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 164 women are diagnosed with cervical cancer and 135 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Gabon, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Gabon. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	25.1	20.5
Age-standardized rate	30.6	24.9
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	188	277
Annual number of new cases/deaths	164	135
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

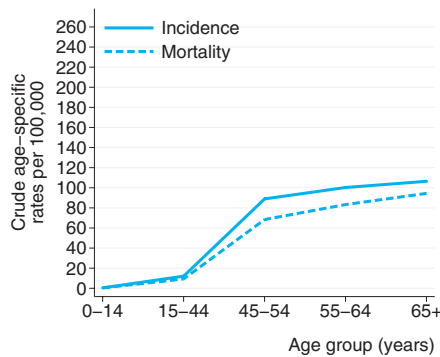


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	7.9
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.3
Oral Contraceptive Use (%)	4.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	6226	23.0 (21.9-24.0)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type‡	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18‡	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

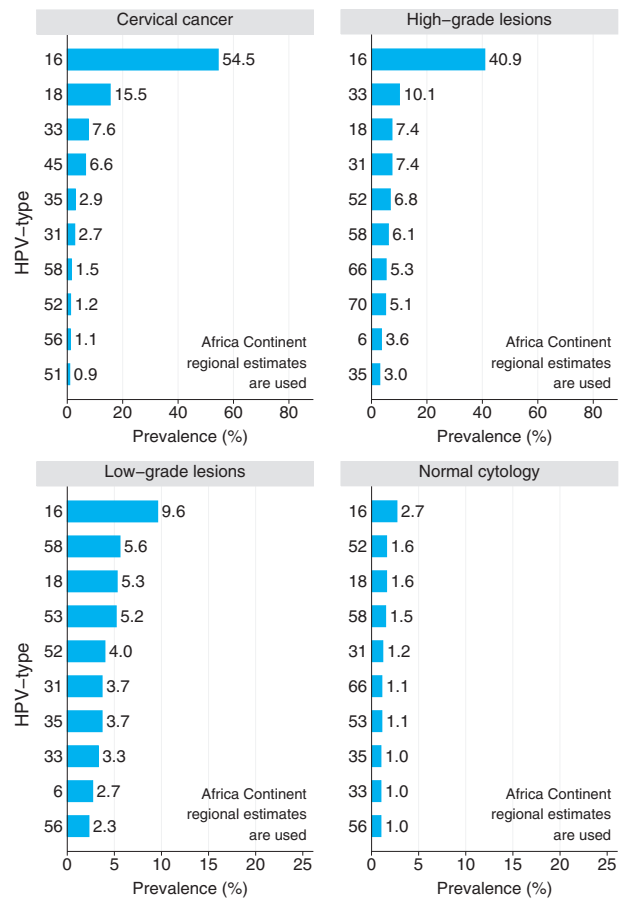
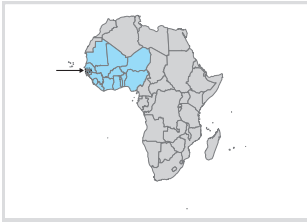


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	38
Percentage of districts with >=80% DTP3 coverage	18

DTP: Diphtheria, Tetanus and Pertussis

GAMBIA



has a population of 462538 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 157 women are diagnosed with cervical cancer and 124 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Gambia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Gambia. However, in Western Africa, the region Gambia belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.7	17.9
Age-standardized rate	28.8	23
Cumulative risk 0-64 years (%)	2.3	1.8
SIR/SMR	190	288
Annual number of new cases/deaths	157	124
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

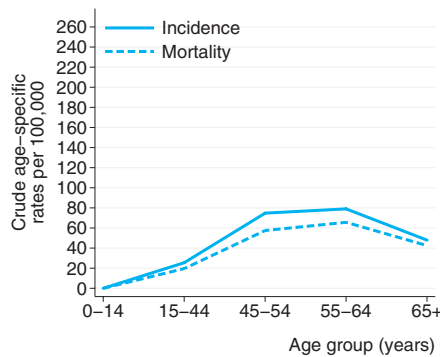


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.4
Smoking prevalence in women (%)	4.4
Fertility rate (live births per women)	5.9
Oral Contraceptive Use (%)	3.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

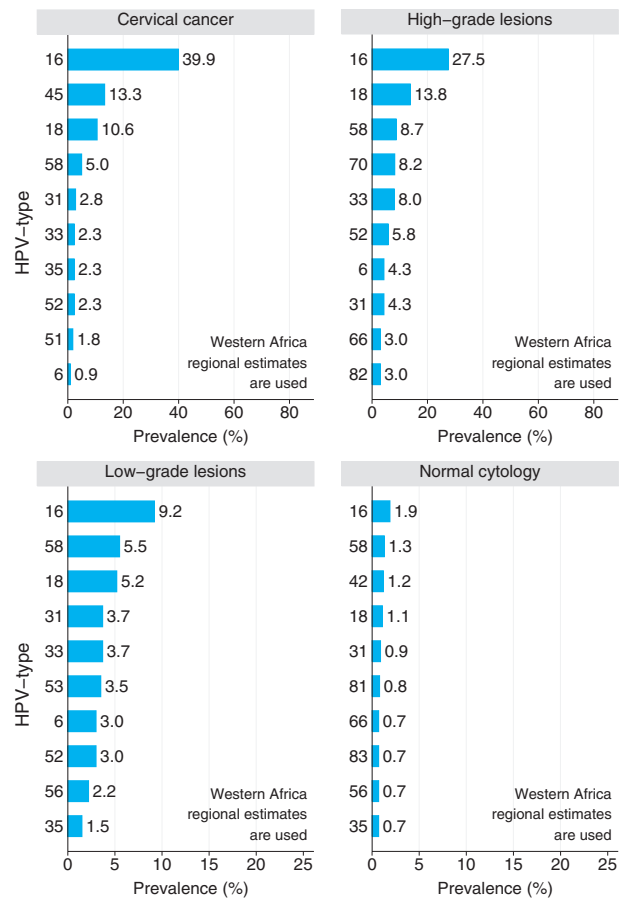


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

GEORGIA



has a population of 1.95 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 580 women are diagnosed with cervical cancer and 225 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Georgia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Georgia. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	21.4	8.3
Age-standardized rate	17.5	5.9
Cumulative risk 0-64 years (%)	1.3	0.4
SIR/SMR	100	65
Annual number of new cases/deaths	580	225
Ranking of cervical cancer (all ages) †	2nd	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

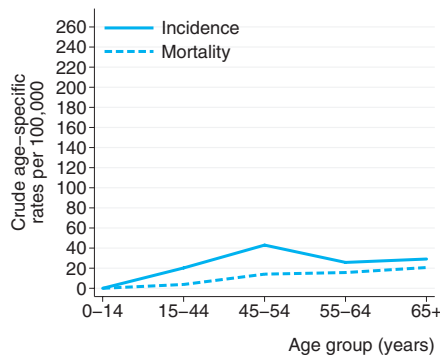


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	6.3
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	1.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

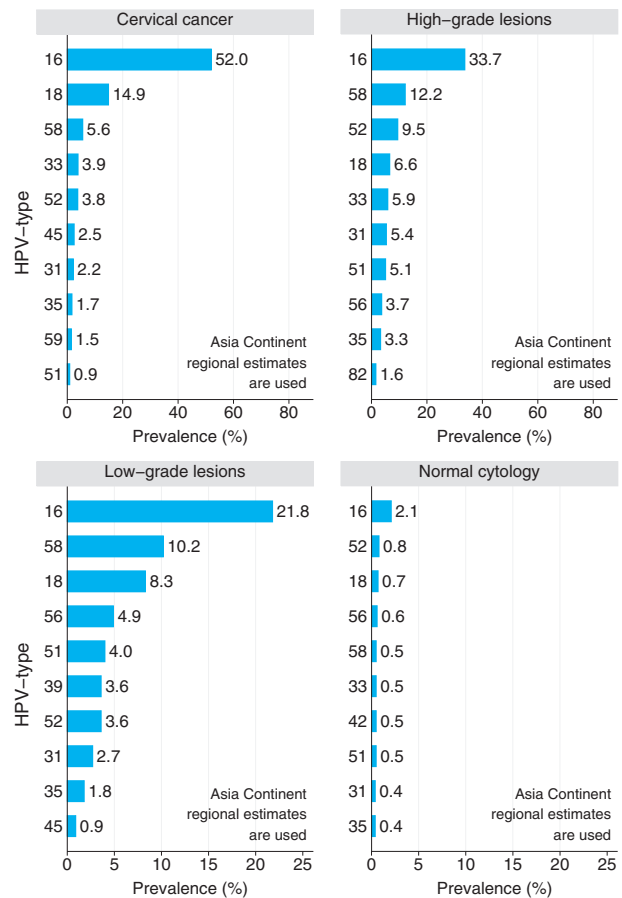


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with >=80% DTP3 coverage	85

DTP: Diphtheria, Tetanus and Pertussis

GERMANY



has a population of 36.55 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6133 women are diagnosed with cervical cancer and 2967 die from the disease. Cervical cancer ranks as the 8th

most frequent cancer in women in Germany, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 6.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 76.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.7	7.1
Age-standardized rate	10.8	3.8
Cumulative risk 0-64 years (%)	0.8	0.2
SIR/SMR	60	48
Annual number of new cases/deaths	6133	2967
Ranking of cervical cancer (all ages) †	8th	8th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

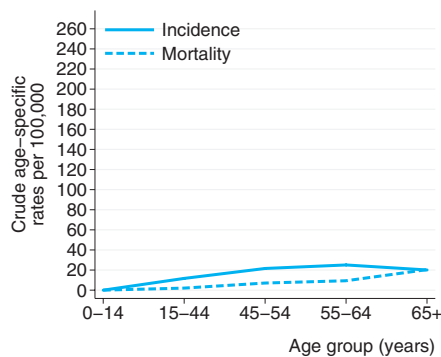


Table 2. Cervical screening coverage

42-47% among women aged 25-54 years (1997)

Table 3. Factors contributing to cervical cancer

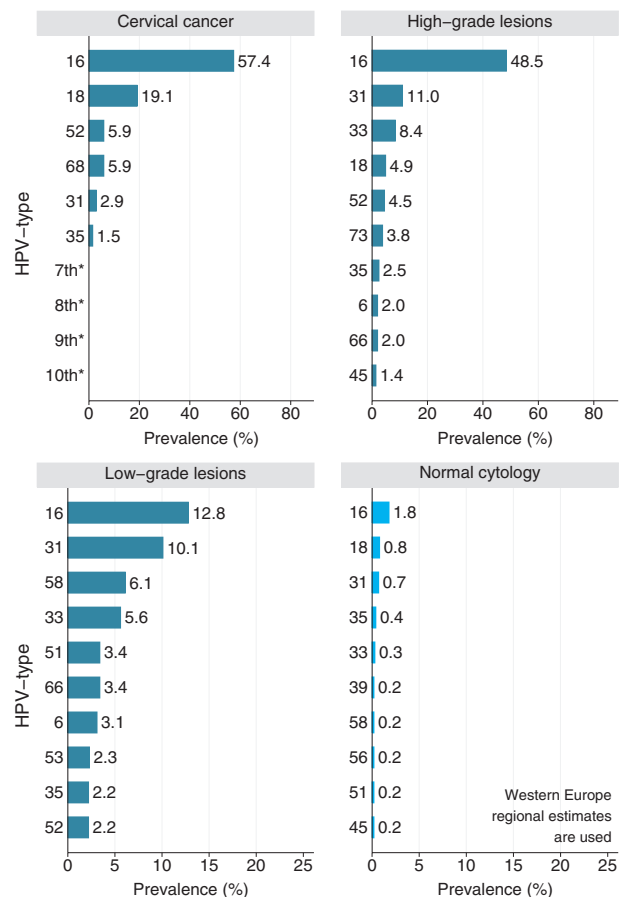
HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	28
Fertility rate (live births per women)	1.4
Oral Contraceptive Use (%)	58.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	12436	6.3 (5.9-6.8)
Low-grade lesions	179	64.8 (57.3-71.8)
High-grade lesions	526	89.2 (86.2-91.7)
Cervical cancer: any type	68	83.8* (72.9-91.6)
Cervical cancer: HPV 16/18	68	76.5 (64.6-85.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



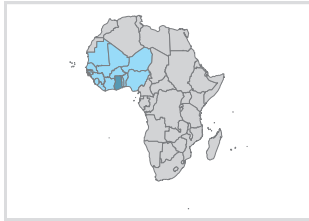
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	90
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

GHANA



has a population of 6.70 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1958 women are diagnosed with cervical cancer and 1572 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Ghana, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Ghana. However, in Western Africa, the region Ghana belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.4	15.5
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	171	265
Annual number of new cases/deaths	1958	1572
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

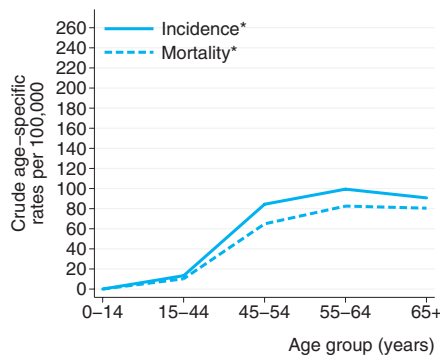


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.3
Smoking prevalence in women (%)	0.7
Fertility rate (live births per women)	4.5
Oral Contraceptive Use (%)	5.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

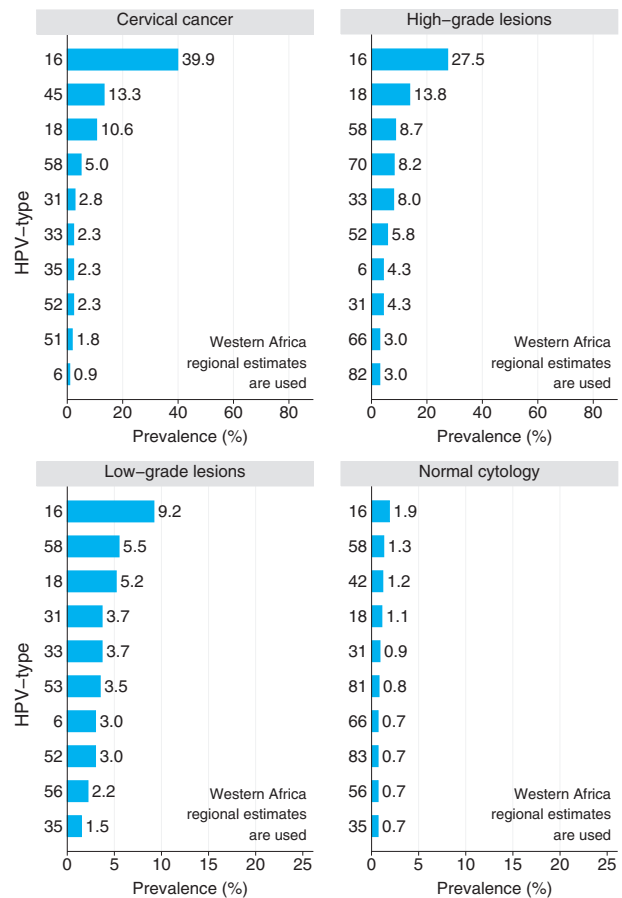


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	84
Percentage of districts with >=80% DTP3 coverage	78

DTP: Diphtheria, Tetanus and Pertussis

GREECE



has a population of 4.85 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 578 women are diagnosed with cervical cancer and 239 die from the disease. Cervical cancer ranks as the 9th most

frequent cancer in women in Greece, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 3.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 57.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.7	4.4
Age-standardized rate	7.7	2.5
Cumulative risk 0-64 years (%)	0.6	0.2
SIR/SMR	45	31
Annual number of new cases/deaths	578	239
Ranking of cervical cancer (all ages) †	9th	10th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

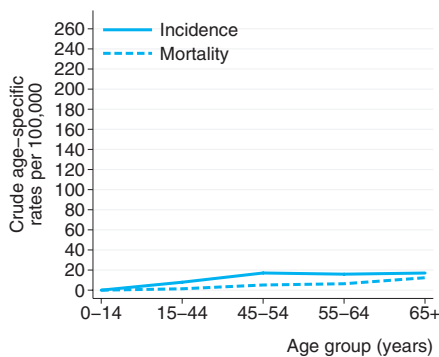


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

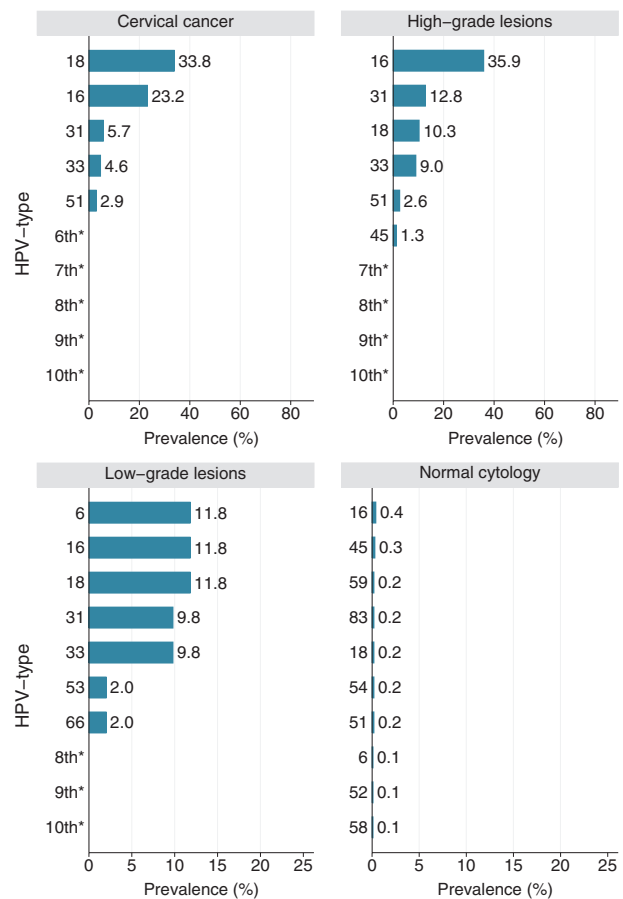
HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	29
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	2010	3.6 (2.9-4.5)
Low-grade lesions	51	90.2 (78.6-96.7)
High-grade lesions	78	88.5 (79.2-94.6)
Cervical cancer: any type	151	72.2* (64.3-79.2)
Cervical cancer: HPV 16/18	151	57.0 (48.7-65.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	88
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

GRENADA



Data is not yet available on the burden of cervical cancer in Grenada. However, in Caribbean, the region Grenada belongs to, current estimates indicate that every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease. Cervical cancer

ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Grenada. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

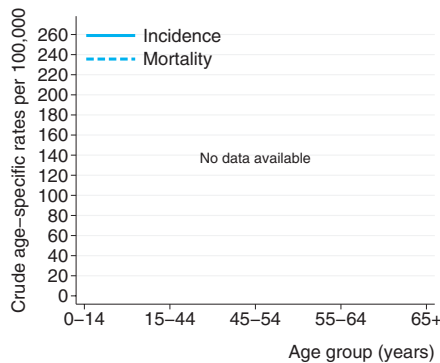


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	15.2

Table 4. Burden of HPV in women with and without cervical disease

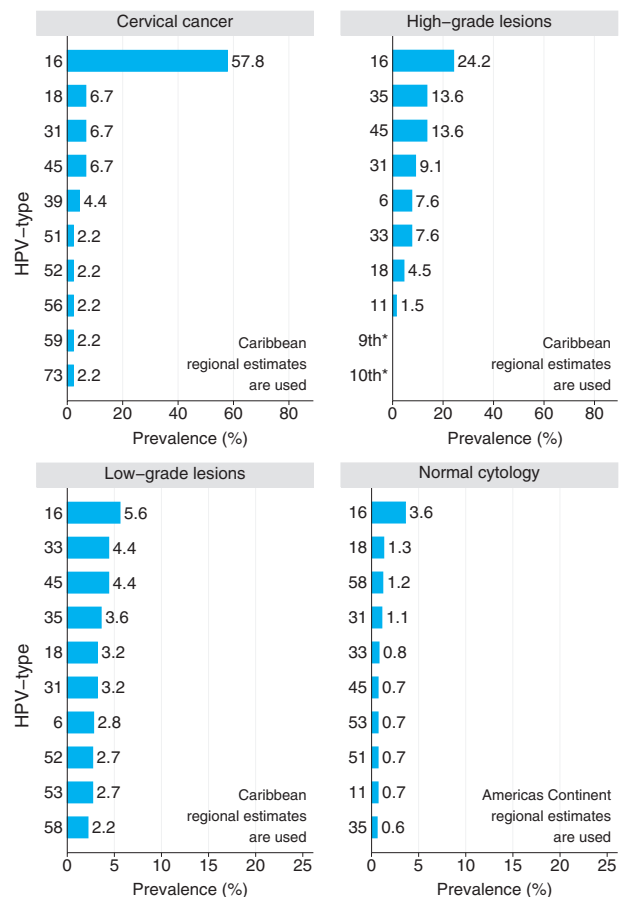
	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	40399	15.6 (15.2-15.9)
Low-grade lesions †	248	60.9 (54.5-67.0)
High-grade lesions †	66	80.3 (68.7-89.1)
Cervical cancer: any type †	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18 †	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	91
Percentage of districts with >=80% DTP3 coverage	114

DTP: Diphtheria, Tetanus and Pertussis

GUATEMALA



has a population of 3.77 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1153 women are diagnosed with cervical cancer and 628 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Guatemala, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Guatemala. However, in Central America, the region Guatemala belongs to, about 20.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 58.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.4	10.6
Age-standardized rate	30.6	17.2
Cumulative risk 0-64 years (%)	2.1	1.2
SIR/SMR	181	190
Annual number of new cases/deaths	1153	628
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
 SIR/SMR: Standardized Incidence/Mortality Ratio.
 *No data available, calculated from the average of neighbouring countries.
 †Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

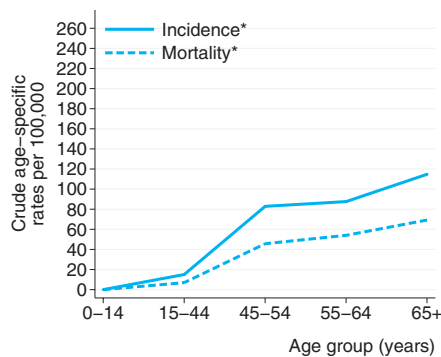


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	2
Fertility rate (live births per women)	5.1
Oral Contraceptive Use (%)	3.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	10232	20.5 (19.7-21.3)
Low-grade lesions†	390	55.1 (50.0-60.1)
High-grade lesions†	280	86.8 (82.2-90.5)
Cervical cancer: any type†	341	90.3* (86.7-93.2)
Cervical cancer: HPV 16/18†	341	58.4 (52.9-63.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Central America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

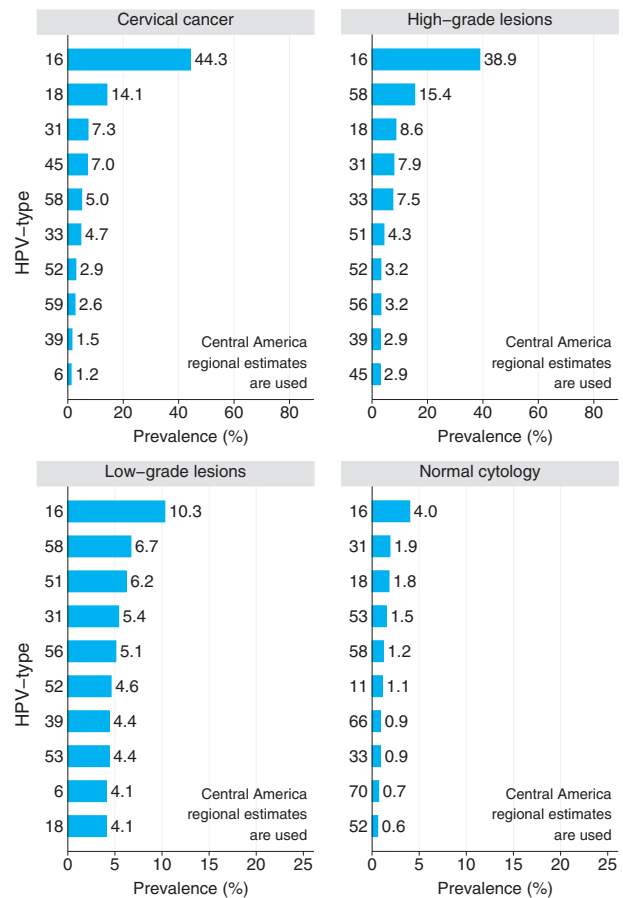
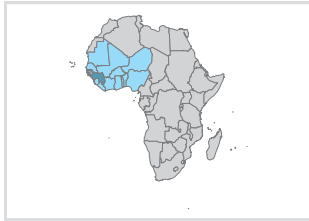


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	80
Percentage of districts with >=80% DTP3 coverage	89

DTP: Diphtheria, Tetanus and Pertussis

GUINEA



has a population of 2.59 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1444 women are diagnosed with cervical cancer and 1138 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Guinea, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Guinea. However, in Western Africa, the region Guinea belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Guinea 44.4% of invasive cervical cancers are attributed to HPV_s 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	34.6	27.3
Age-standardized rate	50.9	40.5
Cumulative risk 0-64 years (%)	3.9	3.1
SIR/SMR	328	505
Annual number of new cases/deaths	1444	1138
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

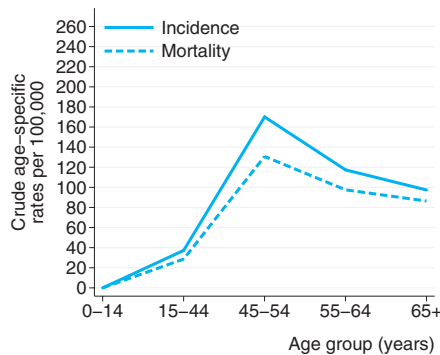


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.5
Smoking prevalence in women (%)	47.3
Fertility rate (live births per women)	5.8
Oral Contraceptive Use (%)	2.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type	18	100* (81.5-100.0)
Cervical cancer: HPV 16/18	18	44.4 (21.5-69.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

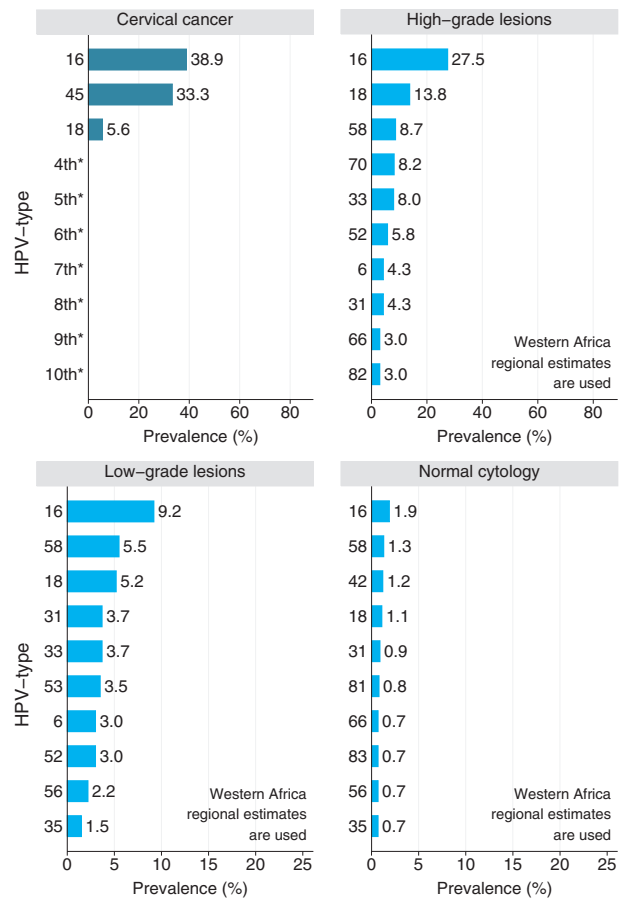
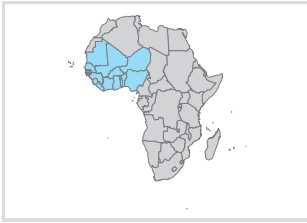


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	71
Percentage of districts with >=80% DTP3 coverage	68

DTP: Diphtheria, Tetanus and Pertussis

GUINEA-BISSAU



has a population of 426064 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 124 women are diagnosed with cervical cancer and 99 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Guinea-Bissau, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Guinea-Bissau. However, in Western Africa, the region Guinea-Bissau belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.4	15.7
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	173	265
Annual number of new cases/deaths	124	99
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
 SIR/SMR: Standardized Incidence/Mortality Ratio.
 *No data available, calculated from the average of neighbouring countries.
 †Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

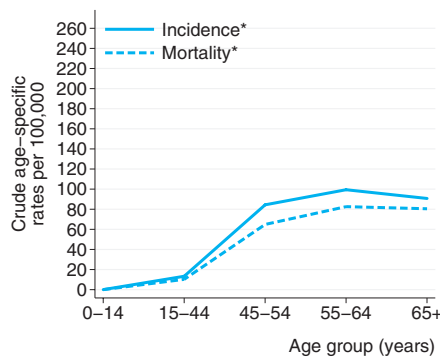


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.8
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	0.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
 †Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

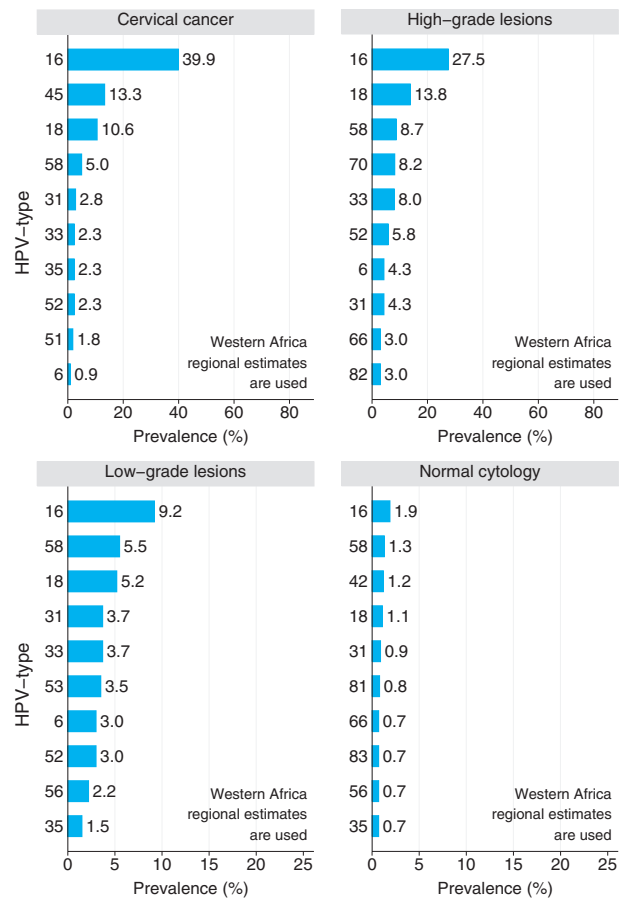


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	77
Percentage of districts with >=80% DTP3 coverage	45

DTP: Diphtheria, Tetanus and Pertussis

GUYANA



has a population of 277254 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 160 women are diagnosed with cervical cancer and 71 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Guyana, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Guyana. However, in South America, the region Guyana belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.3% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	40.7	18.2
Age-standardized rate	47.3	22.2
Cumulative risk 0-64 years (%)	3.5	1.5
SIR/SMR	288	245
Annual number of new cases/deaths	160	71
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

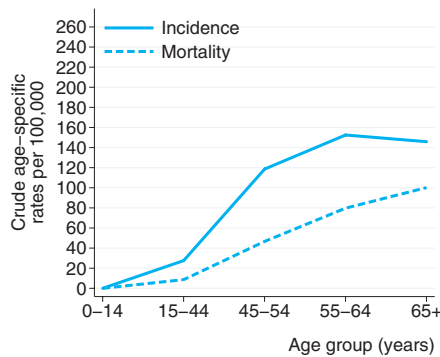


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.4
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	11.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type†	1041	91.1* (89.2-92.7)
Cervical cancer: HPV 16/18†	1041	67.3 (64.4-70.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

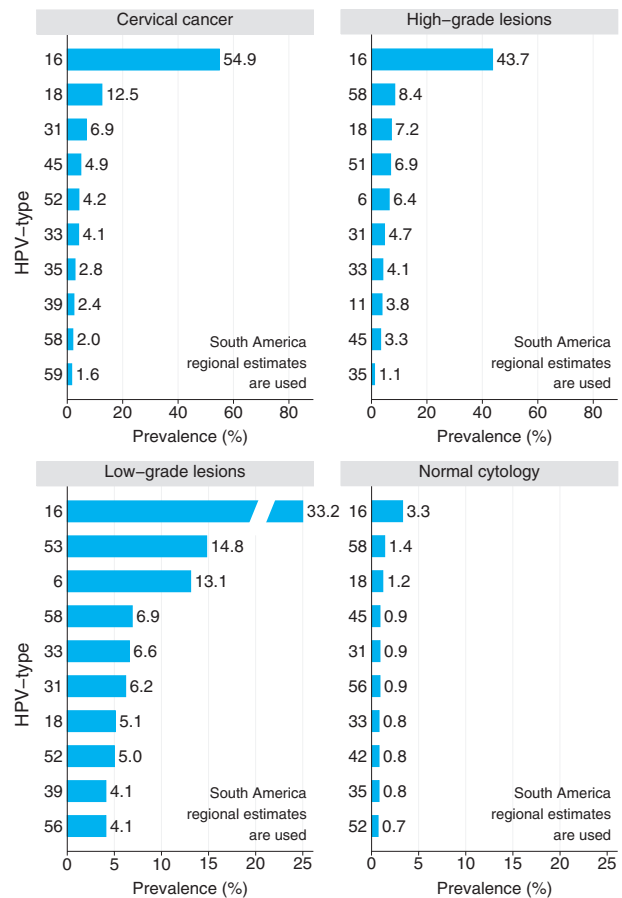


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	92

DTP: Diphtheria, Tetanus and Pertussis

HAITI



has a population of 2.75 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2774 women are diagnosed with cervical cancer and 1484 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Haiti, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Haiti. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Haiti belongs to, about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	64.7	34.6
Age-standardized rate	87.3	48.1
Cumulative risk 0-64 years (%)	6.1	3.4
SIR/SMR	540	554
Annual number of new cases/deaths	2774	1484
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

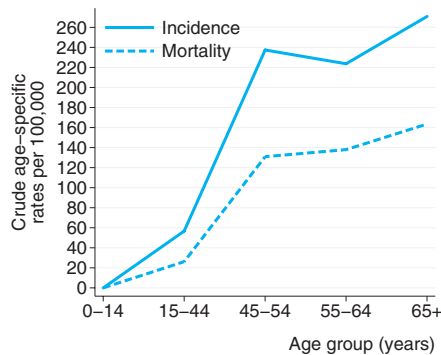


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.8
Smoking prevalence in women (%)	6.1
Fertility rate (live births per women)	4.7
Oral Contraceptive Use (%)	2.3

Table 4. Burden of HPV in women with and without cervical disease

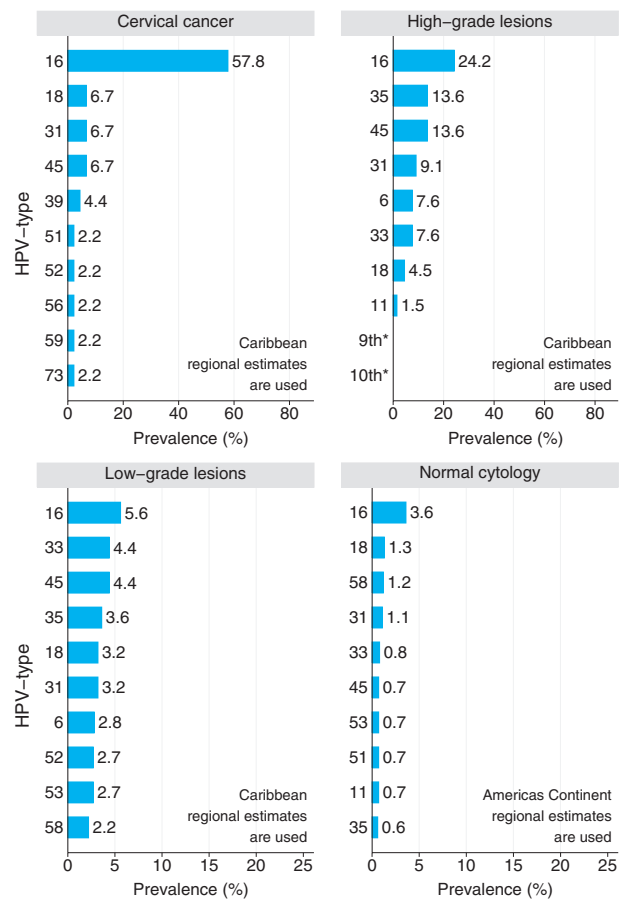
	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	40399	15.6 (15.2-15.9)
Low-grade lesions †	248	60.9 (54.5-67.0)
High-grade lesions †	66	80.3 (68.7-89.1)
Cervical cancer: any type †	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18 †	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	53
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

HONDURAS



has a population of 2.19 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 664 women are diagnosed with cervical cancer and 361 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Honduras, and the 1st most frequent cancer among women between 15 and 44 years of age. About 38.8% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 53.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	19.9	10.8
Age-standardized rate	30.6	17.2
Cumulative risk 0-64 years (%)	2.1	1.2
SIR/SMR	180	190
Annual number of new cases/deaths	664	361
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

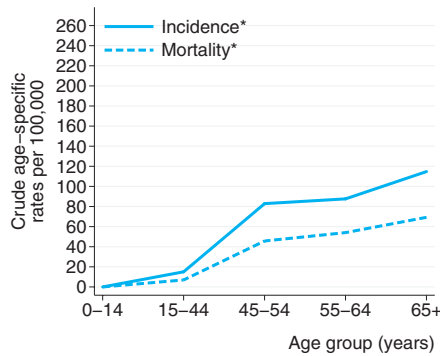


Table 2. Cervical screening coverage

55.4% in the last 12 month among women aged 15-49 years (1996)

Table 3. Factors contributing to cervical cancer

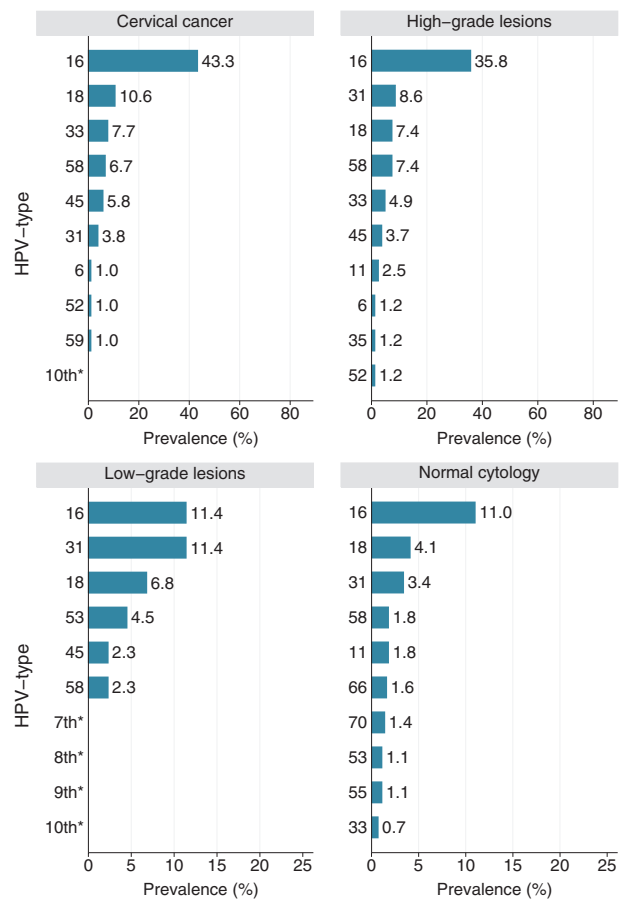
HIV rate (%) in adults (15-49 years)	1.5
Smoking prevalence in women (%)	11
Fertility rate (live births per women)	5.0
Oral Contraceptive Use (%)	10.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	438	38.8 (34.2-43.6)
Low-grade lesions	44	47.7 (32.5-63.3)
High-grade lesions	81	79 (68.5-87.3)
Cervical cancer: any type	104	79.8* (70.8-87.0)
Cervical cancer: HPV 16/18	104	53.8 (43.8-63.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with >=80% DTP3 coverage	78

DTP: Diphtheria, Tetanus and Pertussis

HUNGARY



has a population of 4.51 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1042 women are diagnosed with cervical cancer and 551 die from the disease. Cervical cancer ranks as the 5th most

frequent cancer in women in Hungary, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Hungary. However, in Eastern Europe, the region Hungary belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Hungary 95.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.2	10.7
Age-standardized rate	15.7	6.7
Cumulative risk 0-64 years (%)	1.2	0.4
SIR/SMR	85	74
Annual number of new cases/deaths	1042	551
Ranking of cervical cancer (all ages) †	5th	7th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

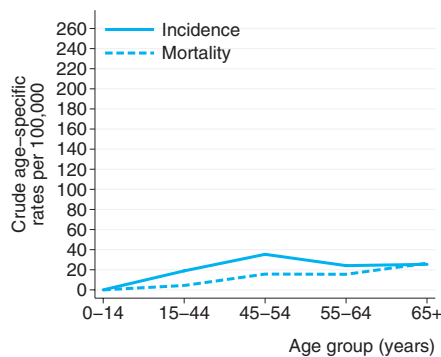


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	27.8
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	37.7

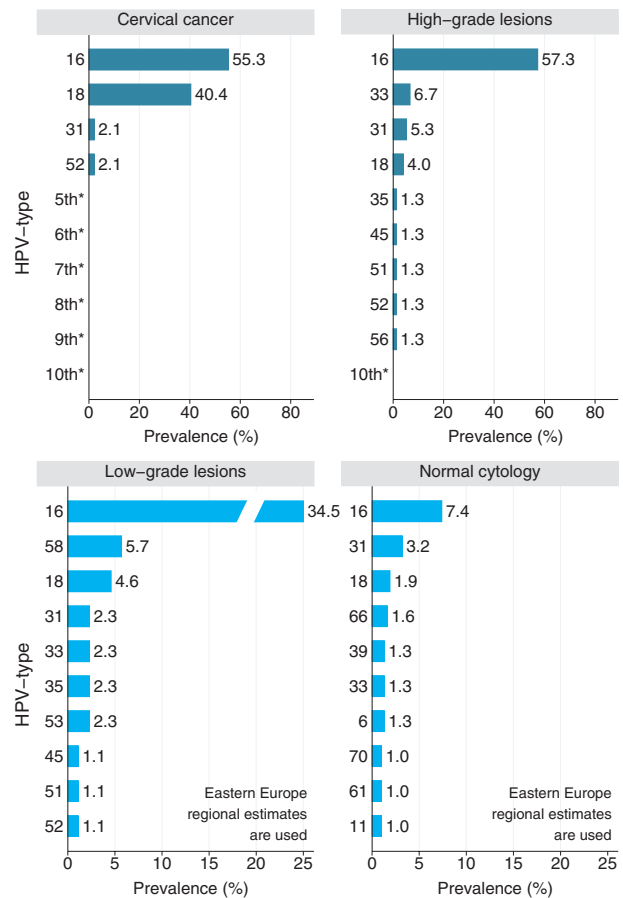
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions	75	96 (88.8-99.2)
Cervical cancer: any type	47	97.9* (88.7-99.9)
Cervical cancer: HPV 16/18	47	95.7 (85.5-99.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



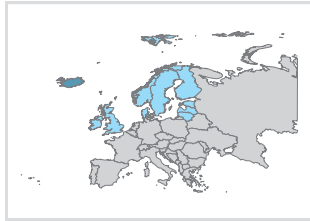
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

ICELAND



has a population of 115877 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 13 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the 10th most frequent

cancer in women in Iceland, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Iceland. However, in Northern Europe, the region Iceland belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 76.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	9.4	6.2
Age-standardized rate	8.3	4.7
Cumulative risk 0-64 years (%)	0.6	0.3
SIR/SMR	48	55
Annual number of new cases/deaths	13	10
Ranking of cervical cancer (all ages) †	10th	8th
Ranking of cervical cancer (15-44 years) †	3rd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

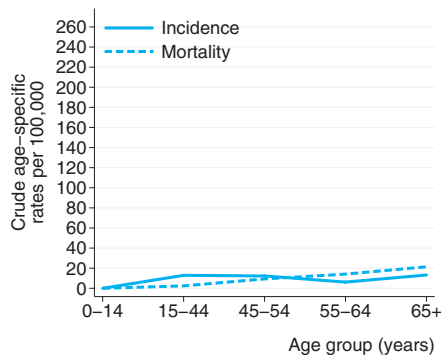


Table 2. Cervical screening coverage

83% (1990-1992)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	19.6
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions†	987	85.8 (83.5-87.9)
Cervical cancer: any type†	2152	86.2* (84.7-87.7)
Cervical cancer: HPV 16/18†	2152	76.5 (74.6-78.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

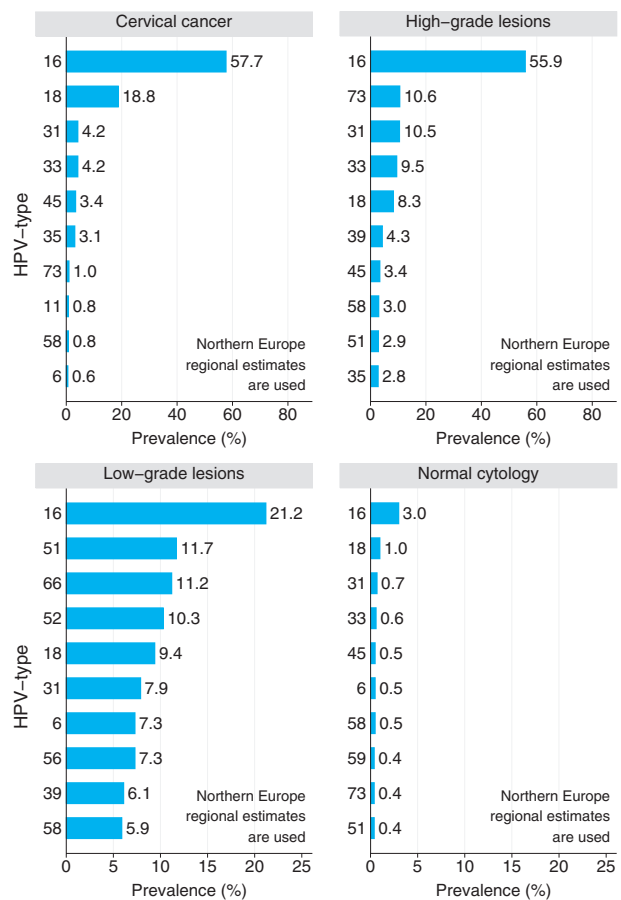


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

INDIA



has a population of 365.71 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 132082 women are diagnosed with cervical cancer and 74118 die from the disease. Cervical cancer ranks as the

1st most frequent cancer in women in India, and the 1st most frequent cancer among women between 15 and 44 years of age. About 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 76.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	26.2	14.7
Age-standardized rate	30.7	17.8
Cumulative risk 0-64 years (%)	2.5	1.4
SIR/SMR	185	193
Annual number of new cases/deaths	132082	74118
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

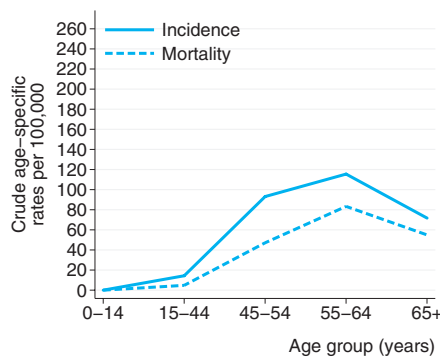


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	16.8
Fertility rate (live births per women)	3.3
Oral Contraceptive Use (%)	2.1

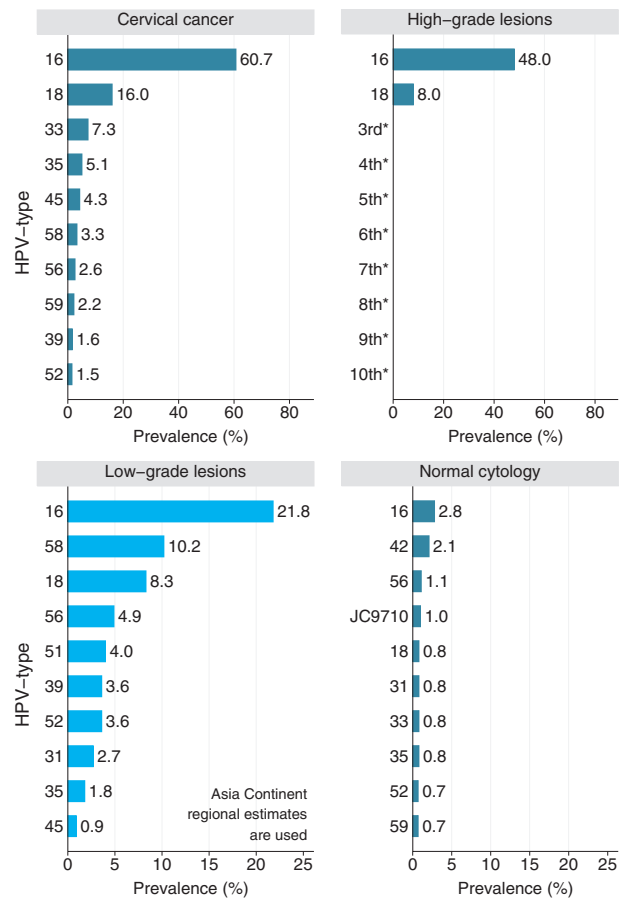
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions	25	64 (42.5-82.0)
Cervical cancer: any type	275	93.1* (89.4-95.8)
Cervical cancer: HPV 16/18	275	76.7 (71.3-81.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	55
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

INDONESIA



has a population of 80.57 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 15050 women are diagnosed with cervical cancer and 7566 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Indonesia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Indonesia. However, in South-Eastern Asia, the region Indonesia belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Indonesia 81.0% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.9	7
Age-standardized rate	15.7	8.1
Cumulative risk 0-64 years (%)	1.3	0.6
SIR/SMR	95	89
Annual number of new cases/deaths	15050	7566
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

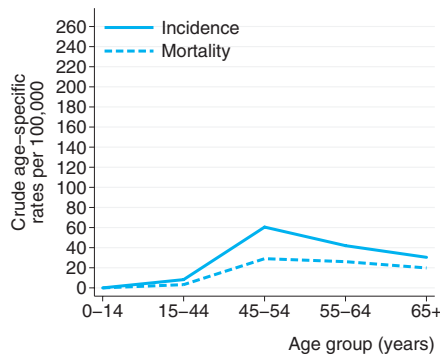


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	2.9
Fertility rate (live births per women)	2.8
Oral Contraceptive Use (%)	13.2

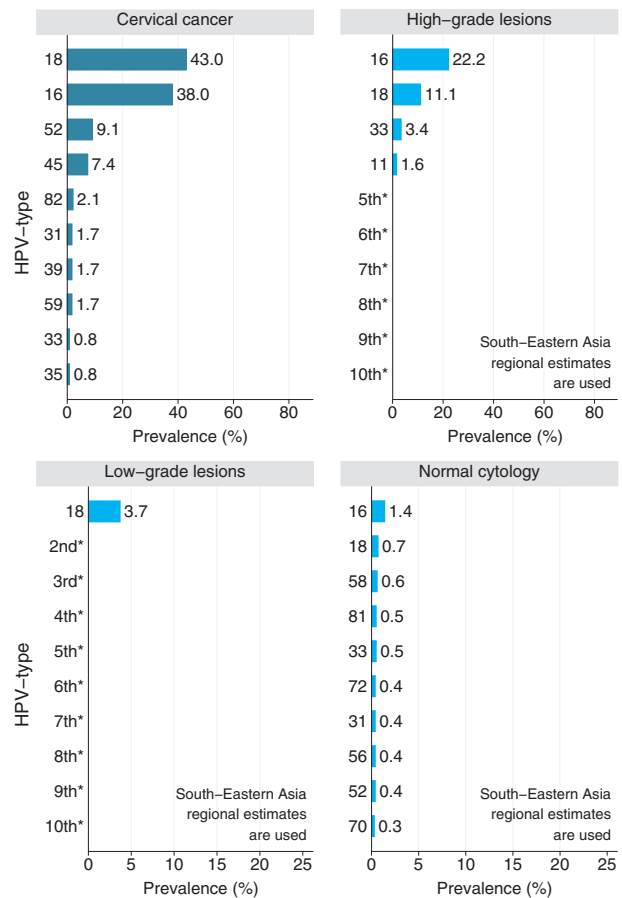
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type	121	97.5* (92.9-99.5)
Cervical cancer: HPV 16/18	121	81.0 (72.9-87.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	70
Percentage of districts with >=80% DTP3 coverage	69

DTP: Diphtheria, Tetanus and Pertussis

IRAN



has a population of 24.54 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1118 women are diagnosed with cervical cancer and 581 die from the disease. Cervical cancer ranks as the 5th

most frequent cancer in women in Iran, and the 5th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Iran. However, in Southern Asia, the region Iran belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Iran 71.2% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	3.2	1.6
Age-standardized rate	4.4	2.4
Cumulative risk 0-64 years (%)	0.3	0.2
SIR/SMR	25	26
Annual number of new cases/deaths	1118	581
Ranking of cervical cancer (all ages) †	5th	7th
Ranking of cervical cancer (15-44 years) †	5th	8th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

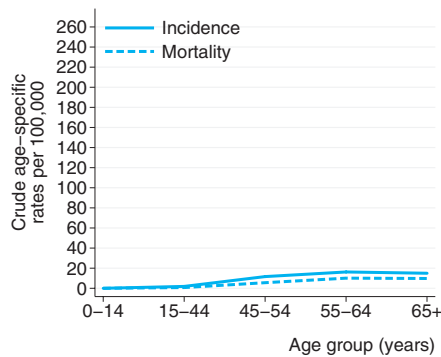


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	2.1
Fertility rate (live births per women)	2.2
Oral Contraceptive Use (%)	20.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type	111	82.9* (74.6-89.4)
Cervical cancer: HPV 16/18	111	71.2 (61.8-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

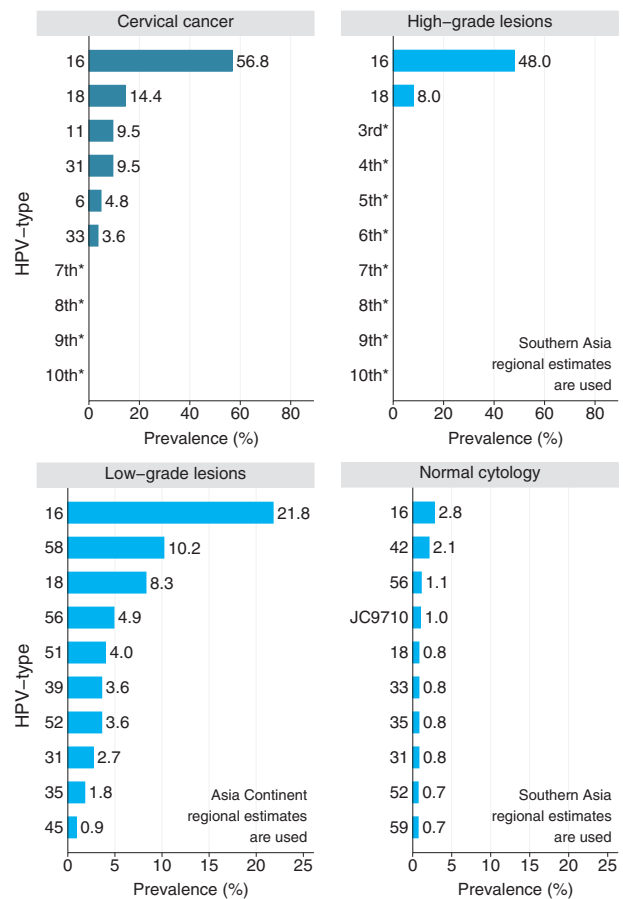


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

IRAQ



has a population of 8.42 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 252 women are diagnosed with cervical cancer and 129 die from the disease. Cervical cancer ranks as the 12th most

frequent cancer in women in Iraq, and the 6th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Iraq. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	2.1	1.1
Age-standardized rate	3.3	1.8
Cumulative risk 0-64 years (%)	0.3	0.1
SIR/SMR	19	19
Annual number of new cases/deaths	252	129
Ranking of cervical cancer (all ages) †	12th	12th
Ranking of cervical cancer (15-44 years) †	6th	8th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

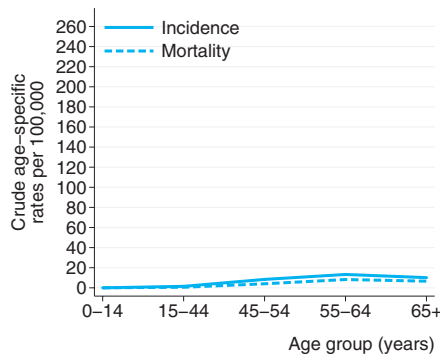


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	5
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	4.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

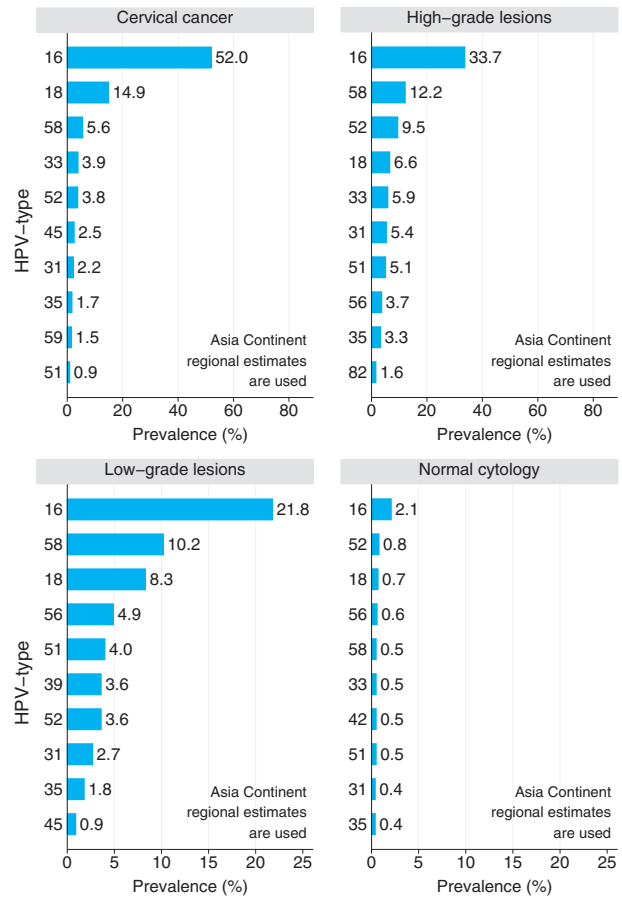


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	60
Percentage of districts with >=80% DTP3 coverage	48

DTP: Diphtheria, Tetanus and Pertussis

IRELAND



has a population of 1.68 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 164 women are diagnosed with cervical cancer and 88 die from the disease. Cervical cancer ranks as the 10th most

frequent cancer in women in Ireland, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Ireland. However, in Northern Europe, the region Ireland belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Ireland 82.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	8.4	4.5
Age-standardized rate	7.2	3.5
Cumulative risk 0-64 years (%)	0.6	0.2
SIR/SMR	42	39
Annual number of new cases/deaths	164	88
Ranking of cervical cancer (all ages) †	10th	10th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

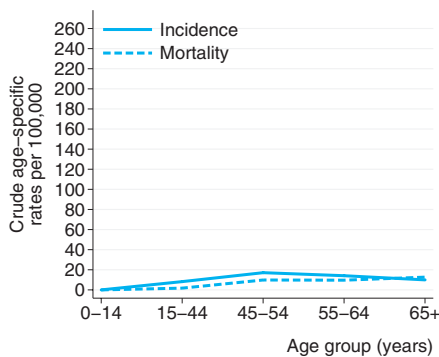


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

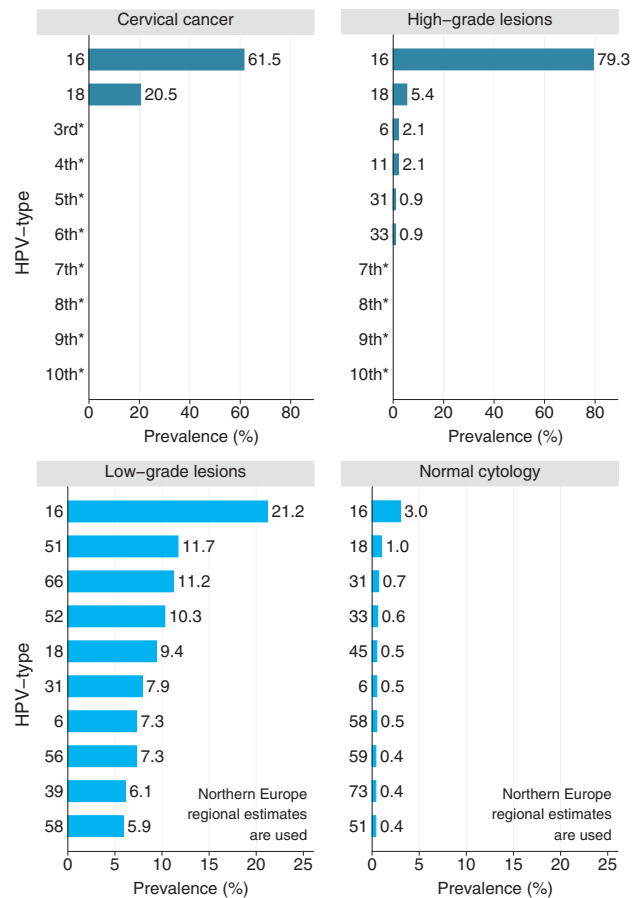
HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	26
Fertility rate (live births per women)	2.0
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions	111	90.1 (83.0-94.9)
Cervical cancer: any type	39	87.2* (72.6-95.7)
Cervical cancer: HPV 16/18	39	82.1 (66.5-92.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	91
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

ISRAEL



has a population of 2.49 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 160 women are diagnosed with cervical cancer and 82 die from the disease. Cervical cancer ranks as the 14th most

frequent cancer in women in Israel, and the 6th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Israel. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	5.1	2.6
Age-standardized rate	4.5	2.3
Cumulative risk 0-64 years (%)	0.3	0.2
SIR/SMR	28	25
Annual number of new cases/deaths	160	82
Ranking of cervical cancer (all ages) †	14th	12th
Ranking of cervical cancer (15-44 years) †	6th	6th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

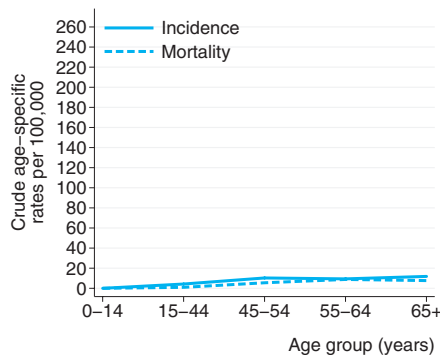


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	17.8
Fertility rate (live births per women)	3.0
Oral Contraceptive Use (%)	13.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

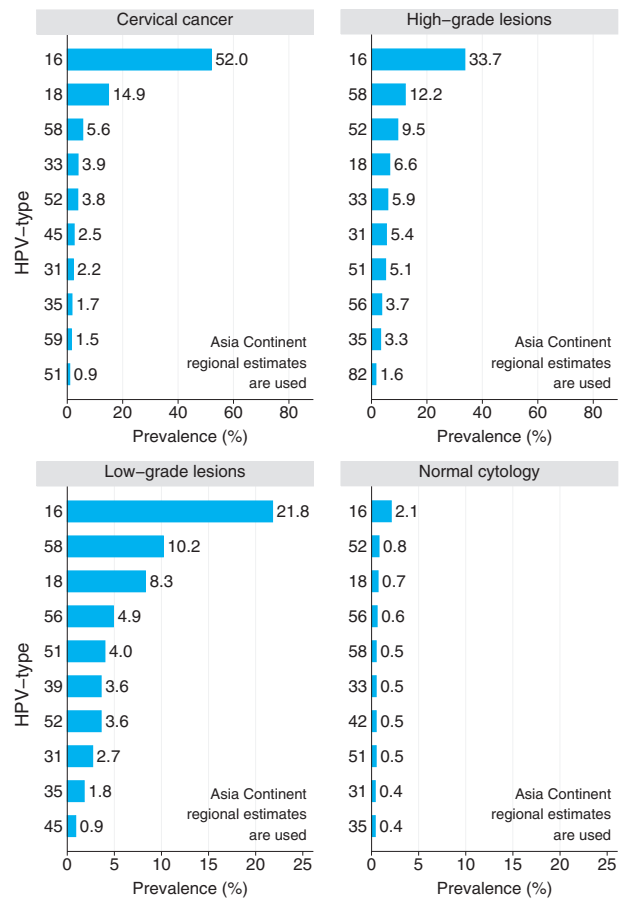


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

ITALY



has a population of 25.94 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 3418 women are diagnosed with cervical cancer and 1186 die from the disease. Cervical cancer ranks as the 10th

most frequent cancer in women in Italy, and the 3rd most frequent cancer among women between 15 and 44 years of age. About 10.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	11.6	4
Age-standardized rate	8.1	2.2
Cumulative risk 0-64 years (%)	0.6	0.1
SIR/SMR	47	27
Annual number of new cases/deaths	3418	1186
Ranking of cervical cancer (all ages) †	10th	13th
Ranking of cervical cancer (15-44 years) †	3rd	5th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

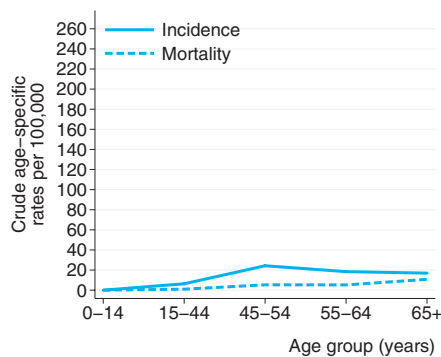


Table 2. Cervical screening coverage

50% reported usual frequency of 3 years (1999-2000); 70% had a Pap smear in the last 3 years among women aged 25-64 years (2000)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	17.2
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	13.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1698	10.3 (8.9-11.9)
Low-grade lesions	1713	72.4 (70.3-74.6)
High-grade lesions	125	85.6 (78.2-91.2)
Cervical cancer: any type	279	92.1* (88.3-95.0)
Cervical cancer: HPV 16/18	279	71.7 (66.0-76.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

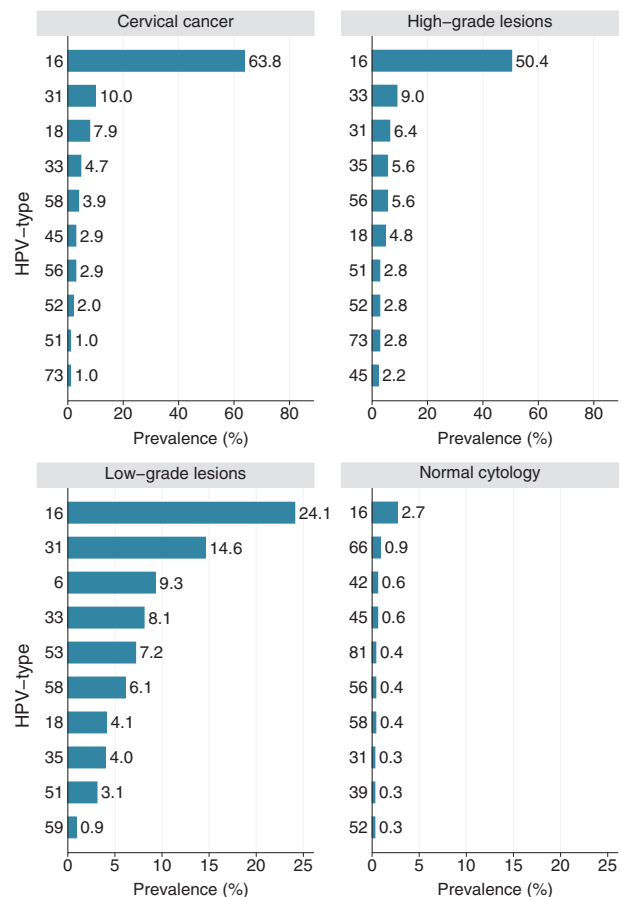


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

JAMAICA



has a population of 936303 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 383 women are diagnosed with cervical cancer and 151 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Jamaica, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Jamaica. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Jamaica belongs to, about 64.4% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	28.8	11.3
Age-standardized rate	31.2	12.2
Cumulative risk 0-64 years (%)	2.3	0.8
SIR/SMR	197	141
Annual number of new cases/deaths	383	151
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

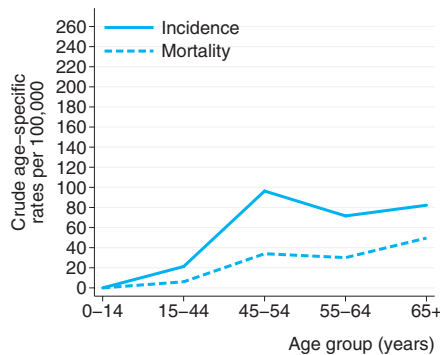


Table 2. Cervical screening coverage

15.3% in the last 12 months among women aged 15-49 years (1997)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.5
Smoking prevalence in women (%)	11.6
Fertility rate (live births per women)	2.9
Oral Contraceptive Use (%)	21.2

Table 4. Burden of HPV in women with and without cervical disease

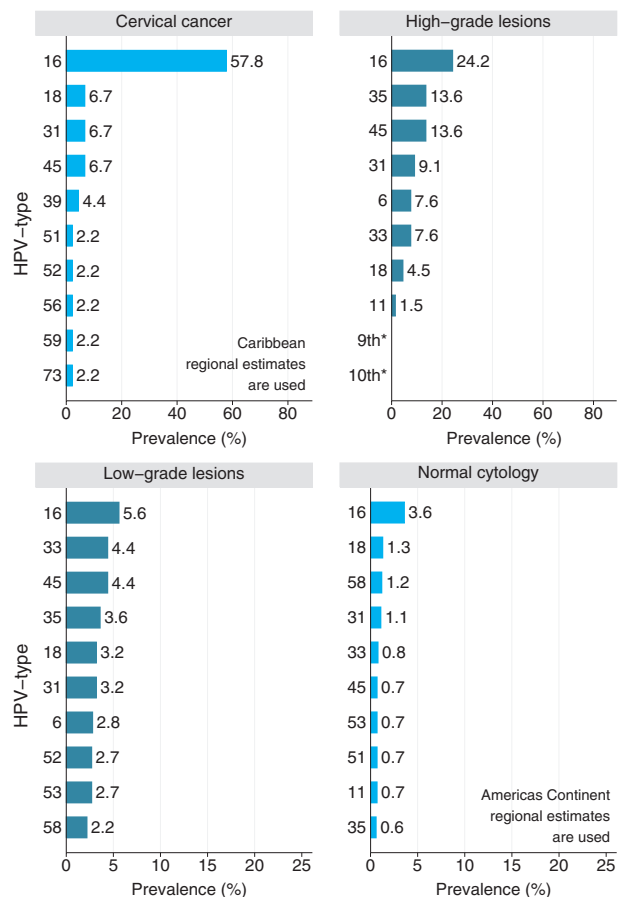
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions	248	60.9 (54.5-67.0)
High-grade lesions	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	69

DTP: Diphtheria, Tetanus and Pertussis

JAPAN



has a population of 56.77 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 7772 women are diagnosed with cervical cancer and 3573 die from the disease. Cervical cancer ranks as the 7th

most frequent cancer in women in Japan, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 7.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 52.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	12	5.5
Age-standardized rate	8	2.8
Cumulative risk 0-64 years (%)	0.5	0.2
SIR/SMR	47	35
Annual number of new cases/deaths	7772	3573
Ranking of cervical cancer (all ages) †	7th	8th
Ranking of cervical cancer (15-44 years) †	2nd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

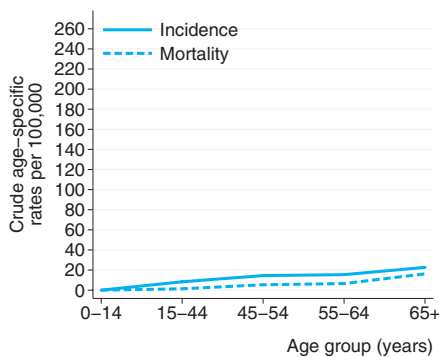


Table 2. Cervical screening coverage

24%

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	14.5
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	2.30

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	12599	7.5 (7.0-7.9)
Low-grade lesions†	225	71.1 (64.7-76.9)
High-grade lesions	338	91.4 (87.9-94.2)
Cervical cancer: any type	1142	81.6* (79.2-83.8)
Cervical cancer: HPV 16/18	1142	52.1 (49.2-55.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

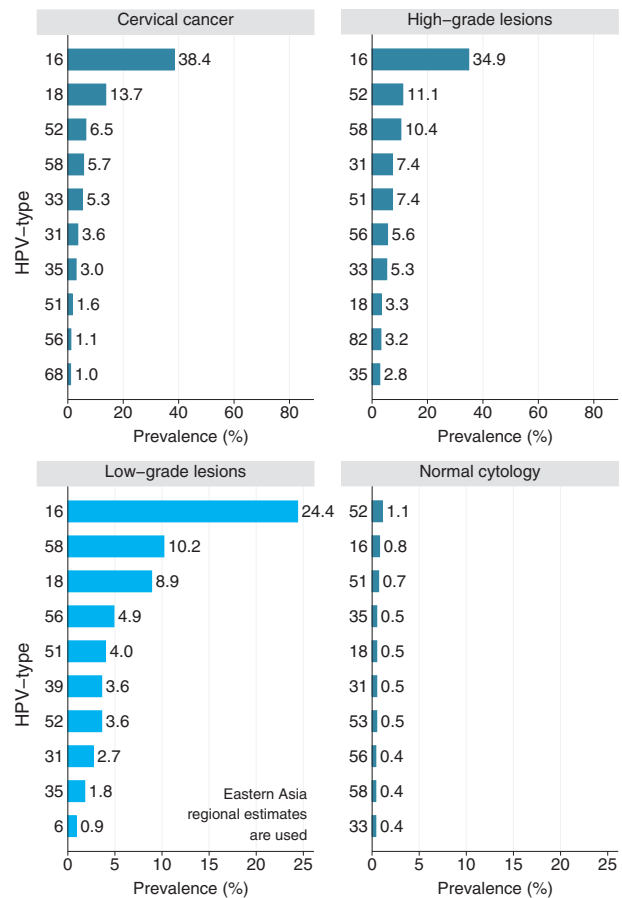


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

JORDAN



has a population of 1.71 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 60 women are diagnosed with cervical cancer and 32 die from the disease. Cervical cancer ranks as the 9th most

frequent cancer in women in Jordan, and the 9th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Jordan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	2.4	1.3
Age-standardized rate	4.2	2.3
Cumulative risk 0-64 years (%)	0.3	0.2
SIR/SMR	23	24
Annual number of new cases/deaths	60	32
Ranking of cervical cancer (all ages) †	9th	8th
Ranking of cervical cancer (15-44 years) †	9th	9th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

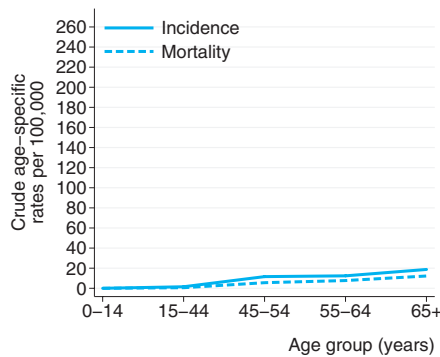


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	8.3
Fertility rate (live births per women)	3.7
Oral Contraceptive Use (%)	7.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

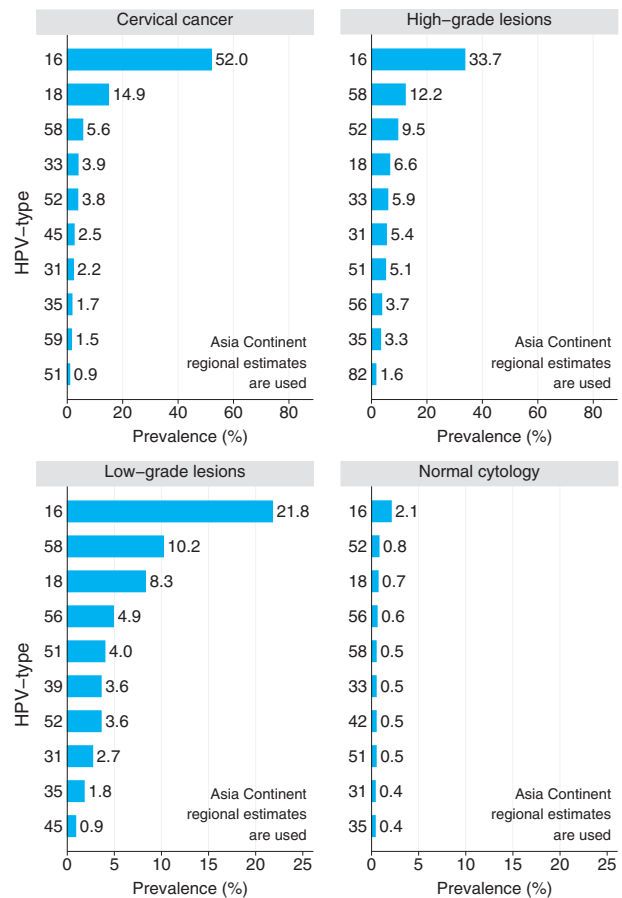


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

KAZAKHSTAN



has a population of 6.04 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1955 women are diagnosed with cervical cancer and 729 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Kazakhstan, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Kazakhstan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	23.8	8.9
Age-standardized rate	21.6	7.9
Cumulative risk 0-64 years (%)	1.5	0.5
SIR/SMR	136	91
Annual number of new cases/deaths	1955	729
Ranking of cervical cancer (all ages) †	2nd	5th
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

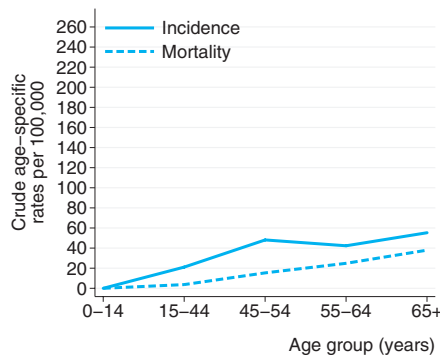


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	9.3
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	2.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

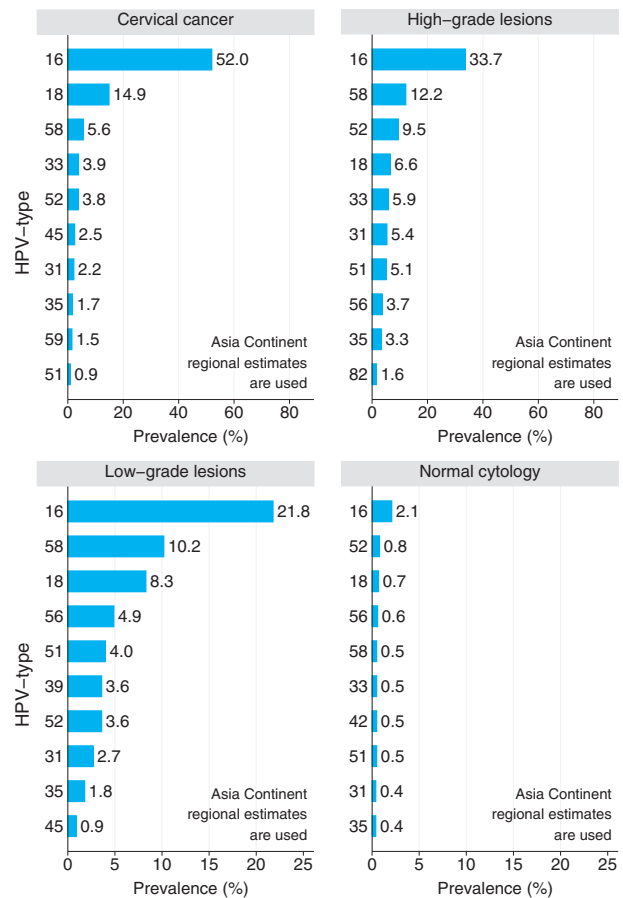


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

KENYA



has a population of 9.82 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2635 women are diagnosed with cervical cancer and 2111 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Kenya, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 38.8% of women in the general population are estimated to harbour cervical HPV infection at a given time. Data on specific HPV-16 and 18 prevalence for Kenya among women with invasive cervical cancer is not yet available, but in Eastern Africa 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.5	13.2
Age-standardized rate	28.7	23.4
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	163	261
Annual number of new cases/deaths	2635	2111
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

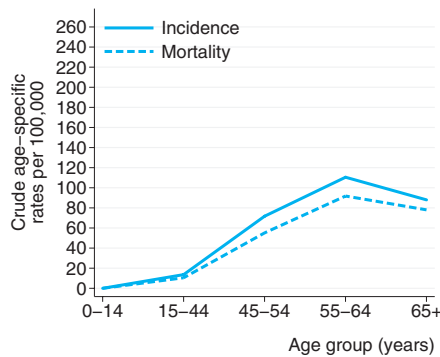


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	6.1
Smoking prevalence in women (%)	1
Fertility rate (live births per women)	4.7
Oral Contraceptive Use (%)	7.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	369	38.8 (33.8-43.9)
Low-grade lesions	30	60 (40.6-77.3)
High-grade lesions	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

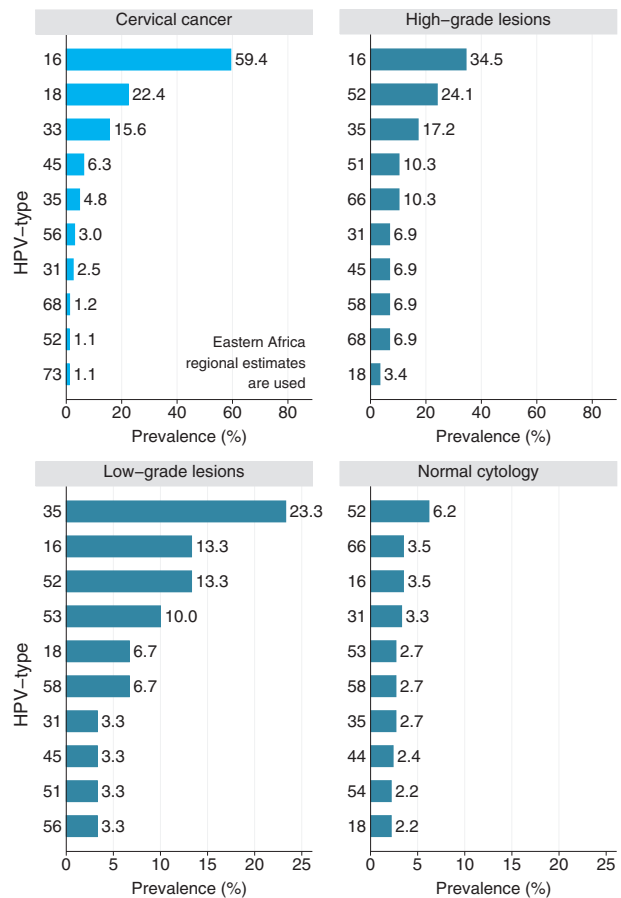


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	80
Percentage of districts with >=80% DTP3 coverage	64

DTP: Diphtheria, Tetanus and Pertussis

KIRIBATI



Data is not yet available on the burden of cervical cancer in Kiribati. However, in Micronesia, the region Kiribati belongs to, current estimates indicate that every year 19 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the

4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Kiribati, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

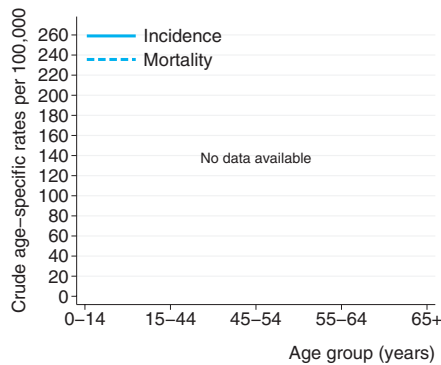


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	32.3
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

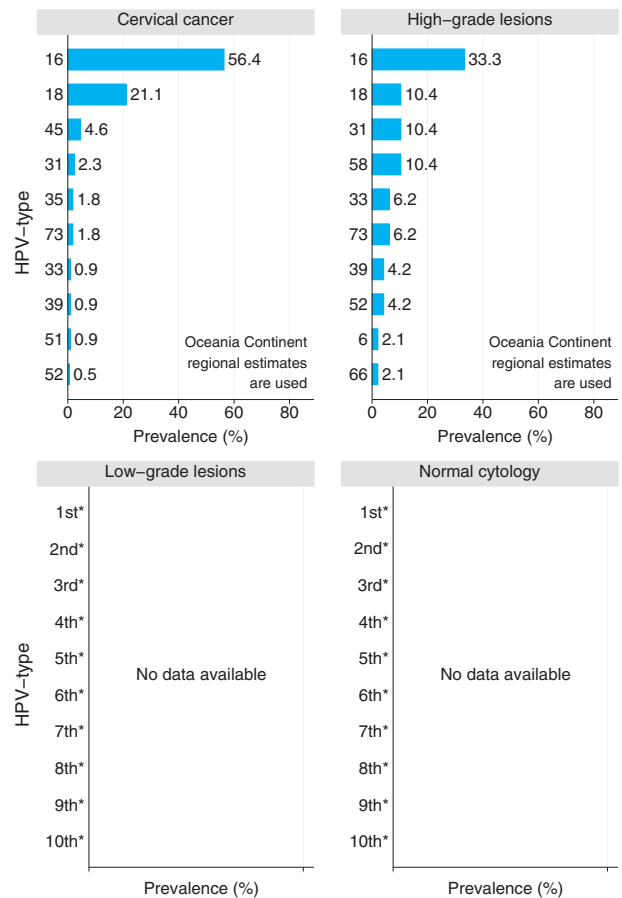
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	86
Percentage of districts with >=80% DTP3 coverage	33

DTP: Diphtheria, Tetanus and Pertussis

KUWAIT



has a population of 754513 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 34 women are diagnosed with cervical cancer and 17 die from the disease. Cervical cancer ranks as the 4th most frequent

cancer in women in Kuwait, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Kuwait. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	4	2
Age-standardized rate	6.1	3.4
Cumulative risk 0-64 years (%)	0.4	0.2
SIR/SMR	32	33
Annual number of new cases/deaths	34	17
Ranking of cervical cancer (all ages) †	4th	7th
Ranking of cervical cancer (15-44 years) †	3rd	4th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

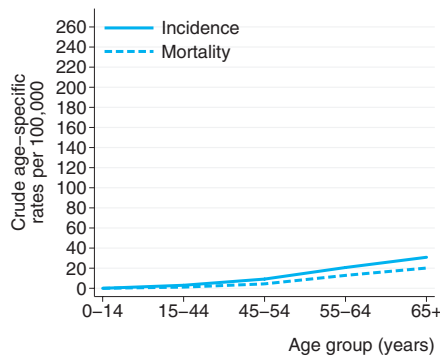


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	1.9
Fertility rate (live births per women)	4.3
Oral Contraceptive Use (%)	28.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

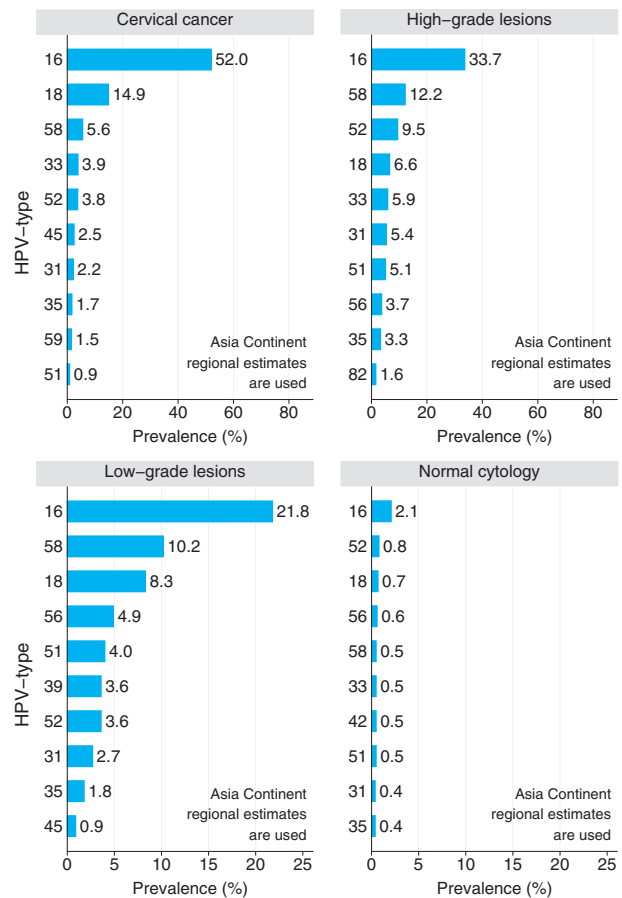


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

KYRGYZSTAN



has a population of 1.86 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 522 women are diagnosed with cervical cancer and 186 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Kyrgyzstan, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Kyrgyzstan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.4	7.3
Age-standardized rate	21.6	7.9
Cumulative risk 0-64 years (%)	1.5	0.5
SIR/SMR	143	93
Annual number of new cases/deaths	522	186
Ranking of cervical cancer (all ages) †	1st	3rd
Ranking of cervical cancer (15-44 years) †	1st	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

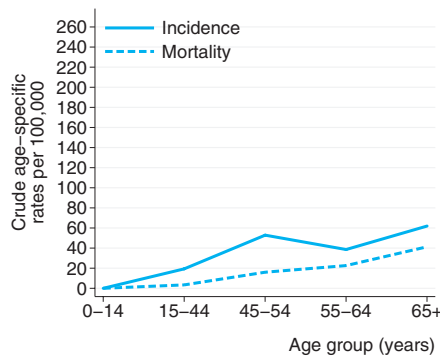


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	4.5
Fertility rate (live births per women)	2.4
Oral Contraceptive Use (%)	1.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

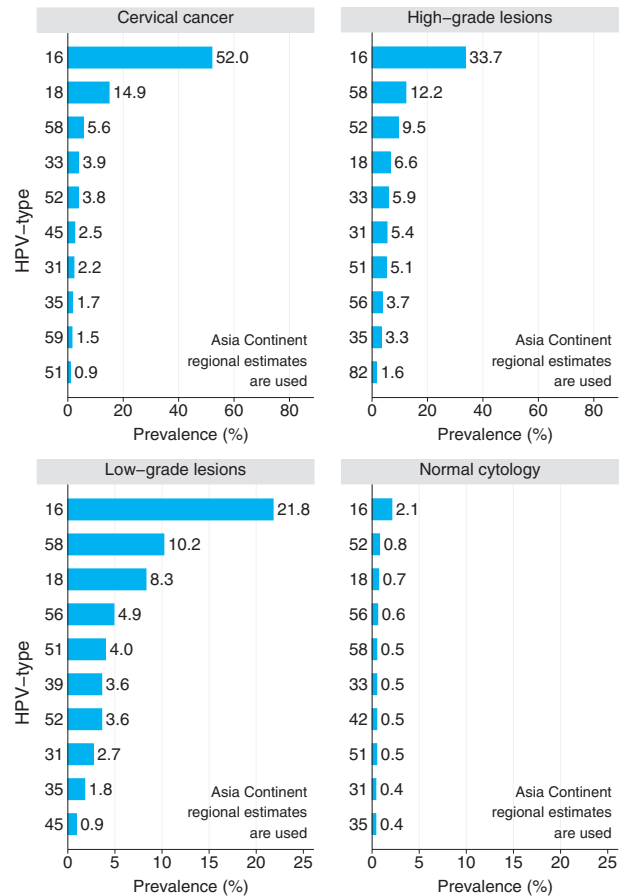


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

LAOS



has a population of 1.77 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 317 women are diagnosed with cervical cancer and 159 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Laos, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Laos. However, in South-Eastern Asia, the region Laos belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	11.5	5.7
Age-standardized rate	16.8	8.8
Cumulative risk 0-64 years (%)	1.3	0.7
SIR/SMR	102	98
Annual number of new cases/deaths	317	159
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

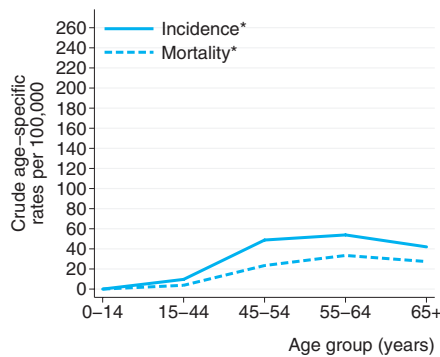


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	12.5
Fertility rate (live births per women)	4.9
Oral Contraceptive Use (%)	12.9

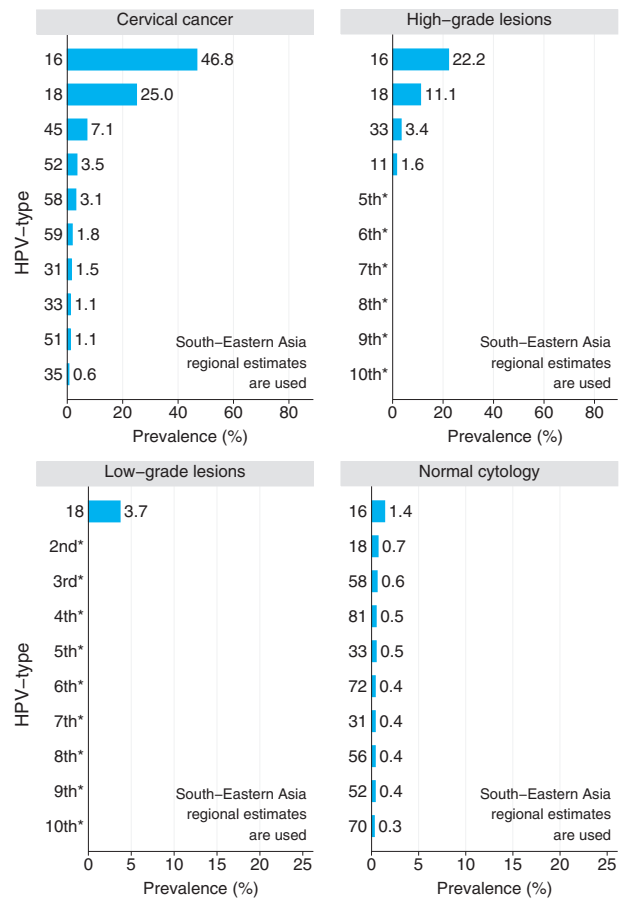
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	57
Percentage of districts with >=80% DTP3 coverage	63

DTP: Diphtheria, Tetanus and Pertussis

LATVIA



has a population of 1.09 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 291 women are diagnosed with cervical cancer and 165 die from the disease. Cervical cancer ranks as the 5th most

frequent cancer in women in Latvia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Latvia. However, in Northern Europe, the region Latvia belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Latvia 69.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.6	12.8
Age-standardized rate	12.9	7.4
Cumulative risk 0-64 years (%)	0.9	0.5
SIR/SMR	94	87
Annual number of new cases/deaths	291	165
Ranking of cervical cancer (all ages) †	5th	7th
Ranking of cervical cancer (15-44 years) †	3rd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

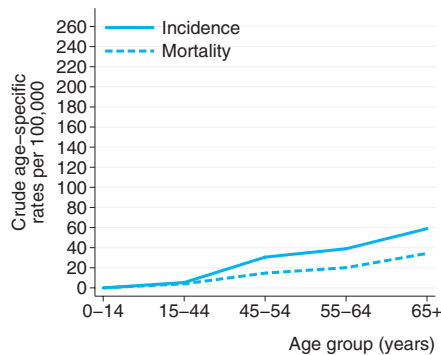


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.8
Smoking prevalence in women (%)	19.2
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	8.0

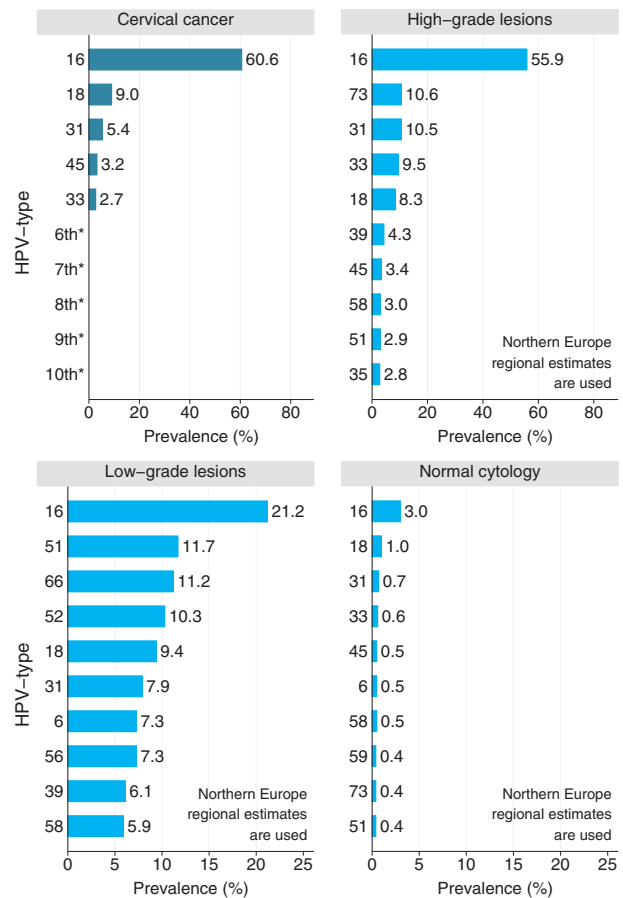
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions†	987	85.8 (83.5-87.9)
Cervical cancer: any type	221	82.8* (77.2-87.5)
Cervical cancer: HPV 16/18	221	69.7 (63.2-75.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

LEBANON



has a population of 1.32 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 262 women are diagnosed with cervical cancer and 131 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Lebanon, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Lebanon. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.3	7.2
Age-standardized rate	15.4	8
Cumulative risk 0-64 years (%)	1.1	0.5
SIR/SMR	98	91
Annual number of new cases/deaths	262	131
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

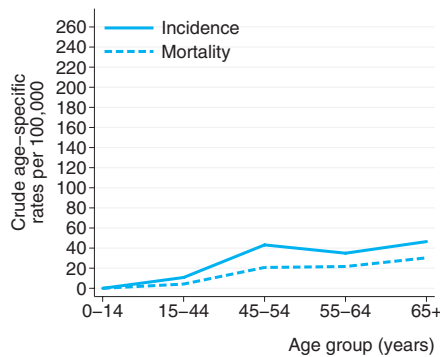


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	30.6
Fertility rate (live births per women)	2.5
Oral Contraceptive Use (%)	10.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

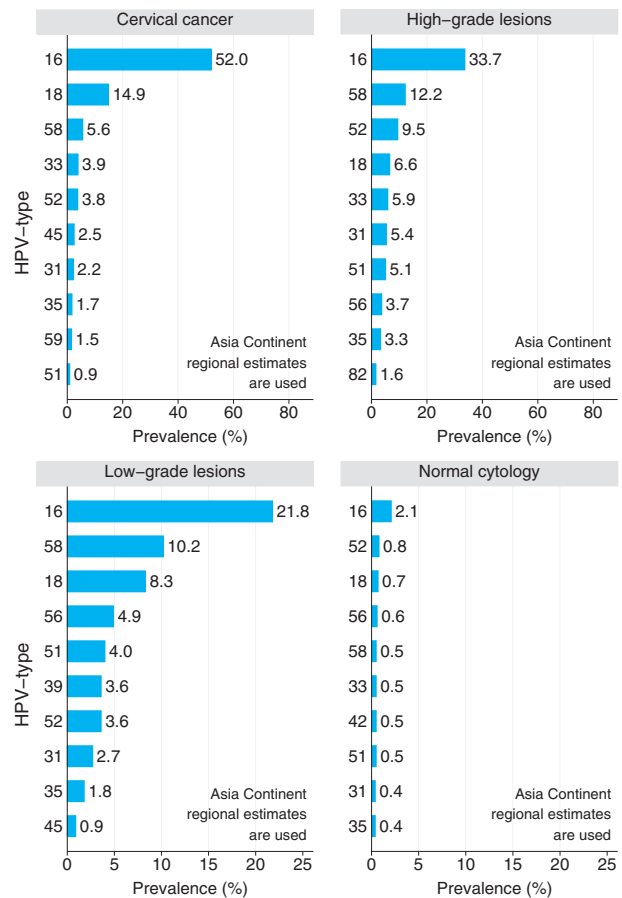


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

LESOTHO



has a population of 614981 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 479 women are diagnosed with cervical cancer and 391 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Lesotho, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Lesotho. However, in Southern Africa, the region Lesotho belongs to, about 15.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	46.2	37.6
Age-standardized rate	61.6	50.3
Cumulative risk 0-64 years (%)	4.4	3.6
SIR/SMR	363	552
Annual number of new cases/deaths	479	391
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

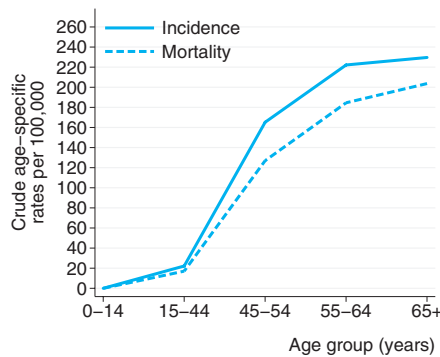


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	23.2
Smoking prevalence in women (%)	1
Fertility rate (live births per women)	4.8
Oral Contraceptive Use (%)	9.4

Table 4. Burden of HPV in women with and without cervical disease

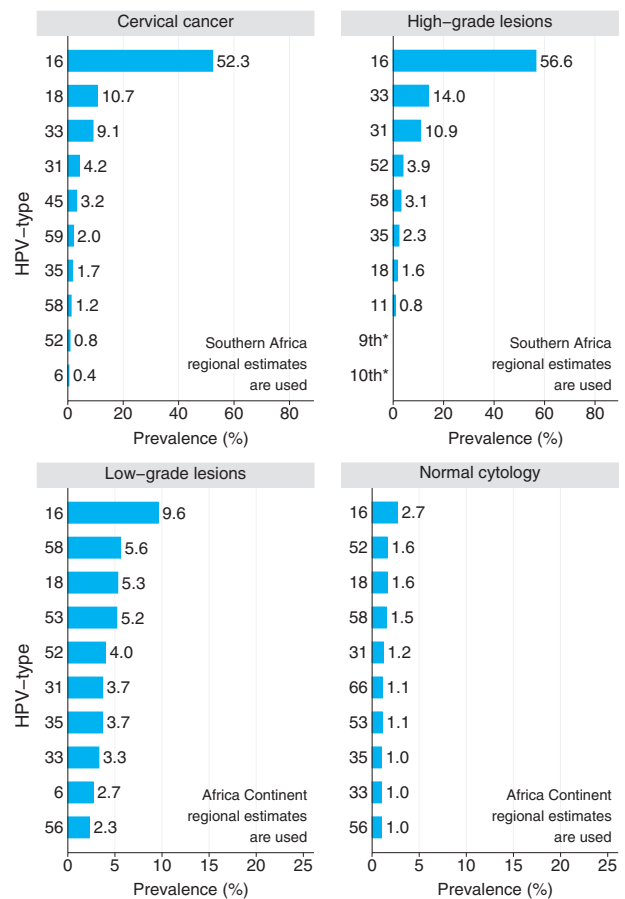
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	1269	15.5 (13.6-17.6)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions†	129	88.4 (81.5-93.3)
Cervical cancer: any type†	308	93.8* (90.5-96.2)
Cervical cancer: HPV 16/18‡	308	63.0 (57.3-68.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



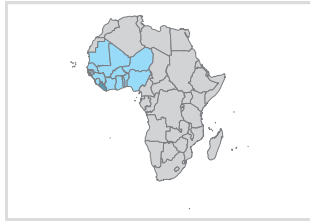
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	83
Percentage of districts with >=80% DTP3 coverage	95

DTP: Diphtheria, Tetanus and Pertussis

LIBERIA



has a population of 875118 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 320 women are diagnosed with cervical cancer and 256 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Liberia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Liberia. However, in Western Africa, the region Liberia belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20	15.9
Age-standardized rate	35	28.1
Cumulative risk 0-64 years (%)	2.7	2.2
SIR/SMR	207	325
Annual number of new cases/deaths	320	256
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

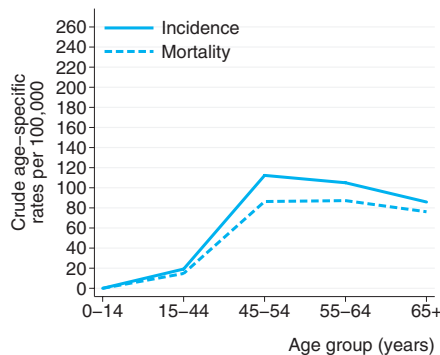


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	3.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

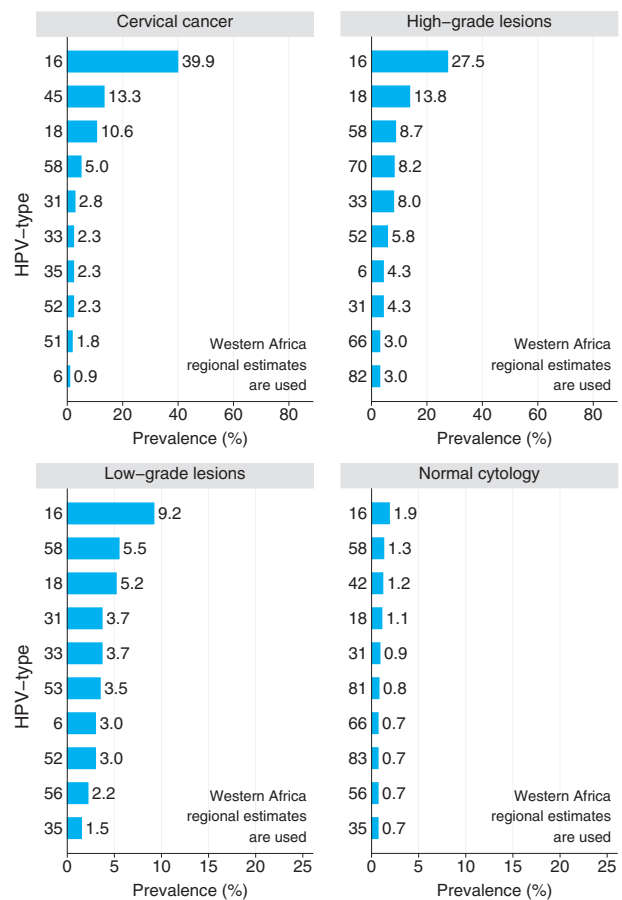
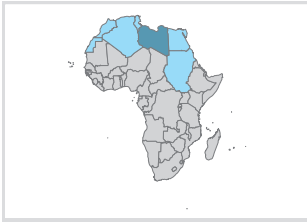


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	88
Percentage of districts with >=80% DTP3 coverage	67

DTP: Diphtheria, Tetanus and Pertussis

LIBYA



has a population of 1.97 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 218 women are diagnosed with cervical cancer and 175 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Libya, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Libya. However, in Northern Africa, the region Libya belongs to, about 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 72.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	8.2	6.6
Age-standardized rate	11.9	9.6
Cumulative risk 0-64 years (%)	0.9	0.7
SIR/SMR	67	105
Annual number of new cases/deaths	218	175
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

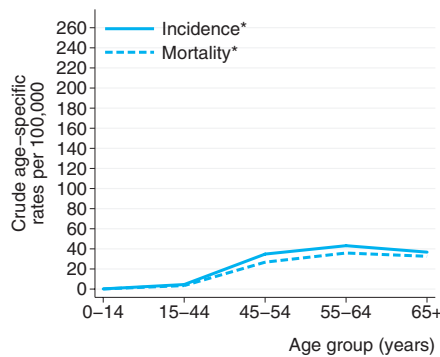


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.1
Oral Contraceptive Use (%)	9.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type†	335	95.5* (92.7-97.5)
Cervical cancer: HPV 16/18†	335	72.5 (67.4-77.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

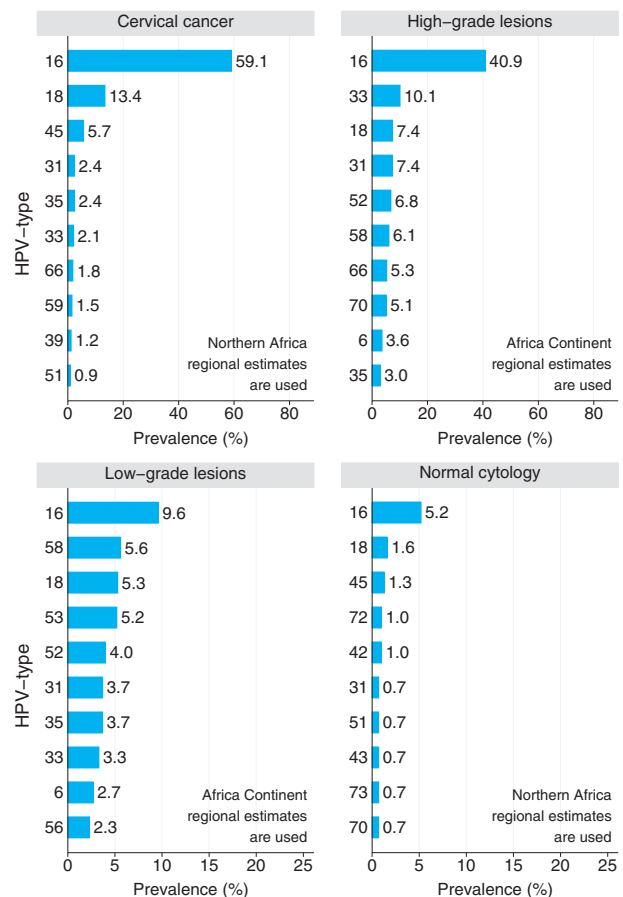


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

LITHUANIA



has a population of 1.55 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 446 women are diagnosed with cervical cancer and 256 die from the disease. Cervical cancer ranks as the 5th most

frequent cancer in women in Lithuania, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Lithuania. However, in Northern Europe, the region Lithuania belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Lithuania 63.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	23	13.2
Age-standardized rate	17.5	9
Cumulative risk 0-64 years (%)	1.3	0.6
SIR/SMR	103	98
Annual number of new cases/deaths	446	256
Ranking of cervical cancer (all ages) †	5th	5th
Ranking of cervical cancer (15-44 years) †	2nd	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

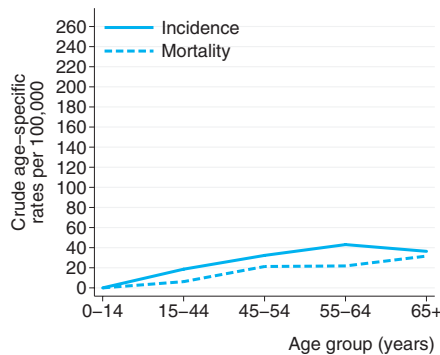


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	12.8
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	3.2

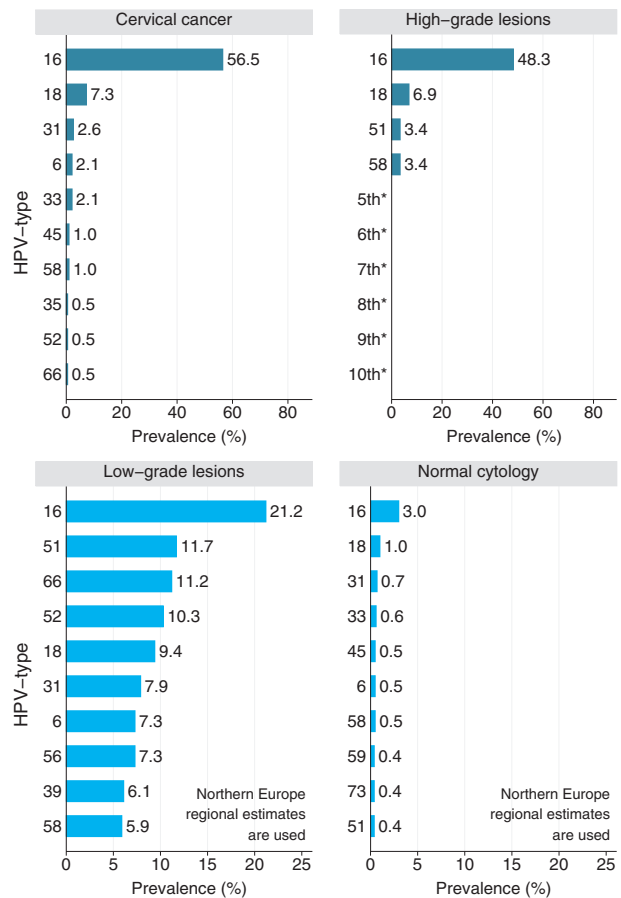
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions	29	79.3 (60.3-92.0)
Cervical cancer: any type	191	92.7* (88.0-95.9)
Cervical cancer: HPV 16/18	191	63.9 (56.6-70.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

LUXEMBOURG



has a population of 193167 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 24 women are diagnosed with cervical cancer and 13 die from the disease. Cervical cancer ranks as the 11th most frequent

cancer in women in Luxembourg, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Luxembourg. However, in Western Europe, the region Luxembourg belongs to, about 6.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 73.6% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.7	6.2
Age-standardized rate	8.7	3.9
Cumulative risk 0-64 years (%)	0.7	0.3
SIR/SMR	48	46
Annual number of new cases/deaths	24	13
Ranking of cervical cancer (all ages) †	11th	10th
Ranking of cervical cancer (15-44 years) †	3rd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

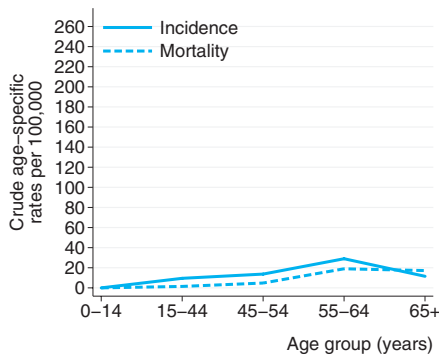


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	27
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	48701	6.1 (5.9-6.4)
Low-grade lesions†	312	68.6 (63.1-73.7)
High-grade lesions†	1664	93.3 (92.0-94.5)
Cervical cancer: any type†	998	86.8* (84.5-88.8)
Cervical cancer: HPV 16/18†	998	73.6 (70.8-76.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

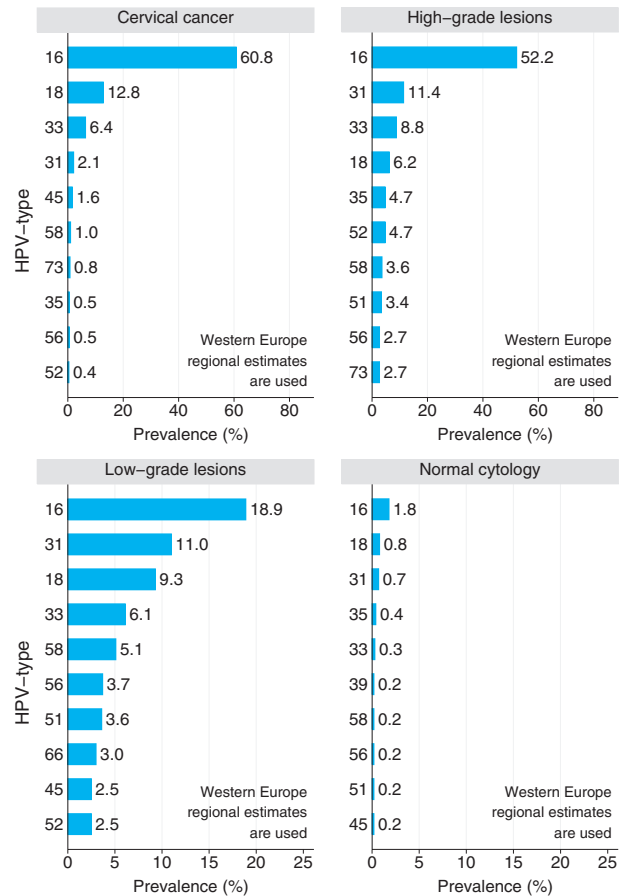


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

MACEDONIA, TFYR



has a population of 827317 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 167 women are diagnosed with cervical cancer and 99 die from the disease. Cervical cancer ranks as the 4th most

frequent cancer in women in Macedonia, TFYR, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Macedonia, TFYR. However, in Southern Europe, the region Macedonia, TFYR belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.4	9.7
Age-standardized rate	13.9	7.6
Cumulative risk 0-64 years (%)	1	0.5
SIR/SMR	82	84
Annual number of new cases/deaths	167	99
Ranking of cervical cancer (all ages) †	4th	5th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

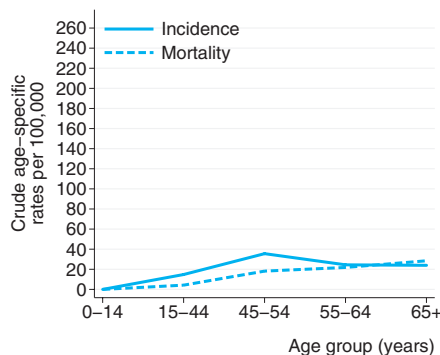


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	32
Fertility rate (live births per women)	1.9
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

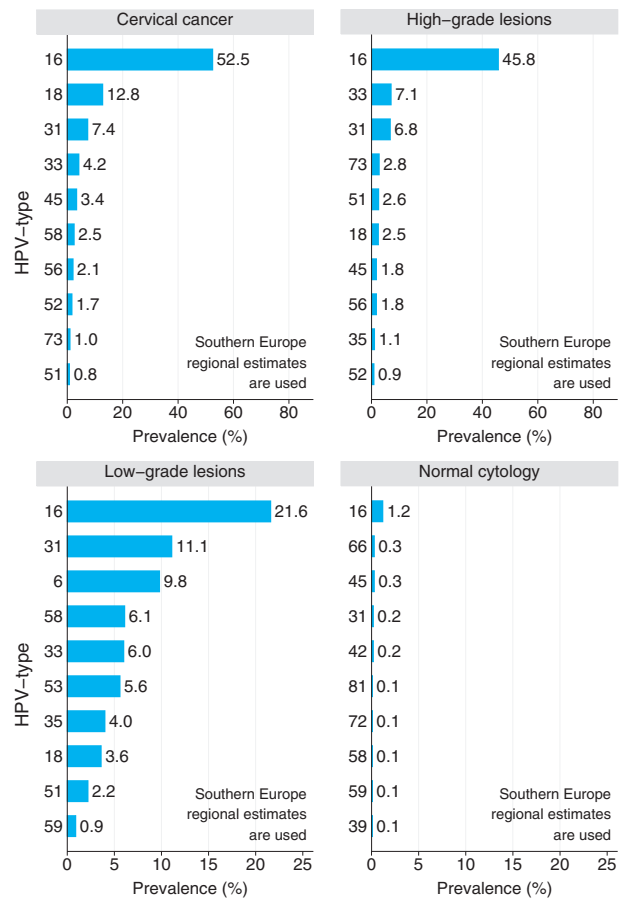


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

MADAGASCAR



has a population of 5.27 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2238 women are diagnosed with cervical cancer and 1795 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Madagascar, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Madagascar. However, in Eastern Africa, the region Madagascar belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	26.4	21.1
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	251	391
Annual number of new cases/deaths	2238	1795
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

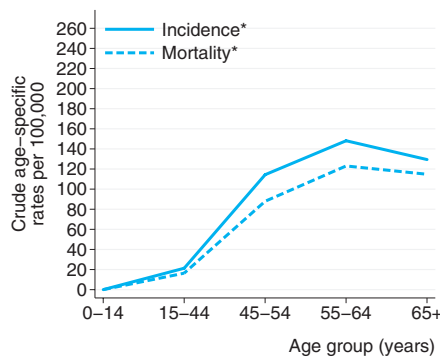


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	6.1
Oral Contraceptive Use (%)	3.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

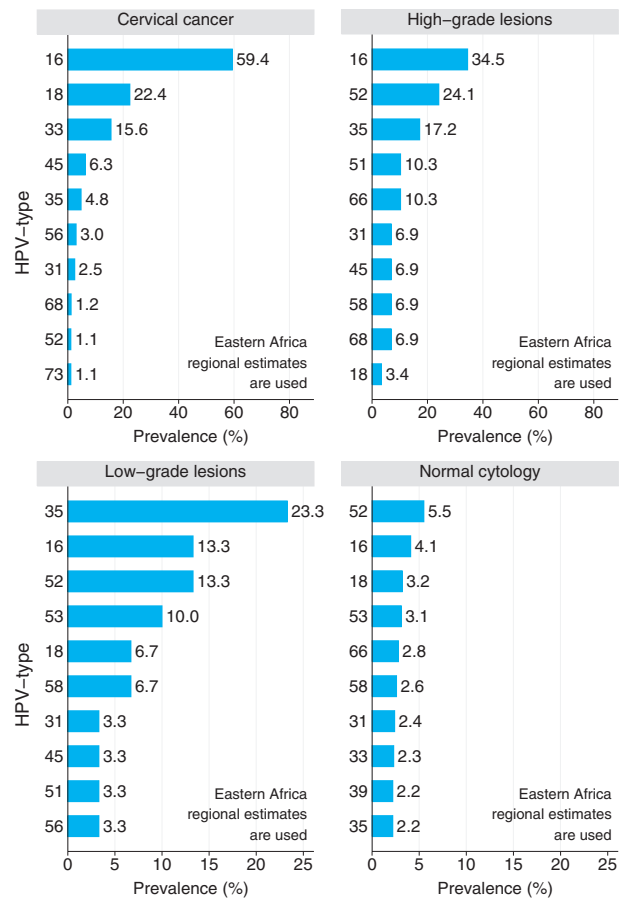


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	61
Percentage of districts with >=80% DTP3 coverage	72

DTP: Diphtheria, Tetanus and Pertussis

MALAWI



has a population of 3.46 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1766 women are diagnosed with cervical cancer and 1405 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Malawi, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Malawi. However, in Eastern Africa, the region Malawi belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	29.8	23.7
Age-standardized rate	46.6	37.4
Cumulative risk 0-64 years (%)	3.7	3
SIR/SMR	286	439
Annual number of new cases/deaths	1766	1405
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

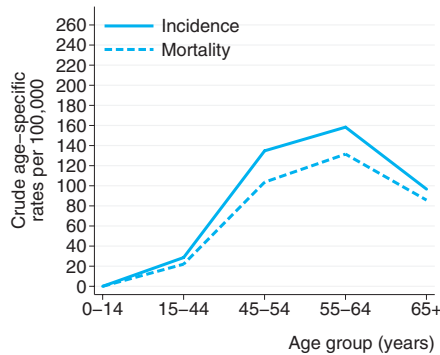


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	14.1
Smoking prevalence in women (%)	4.8
Fertility rate (live births per women)	6.4
Oral Contraceptive Use (%)	2.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

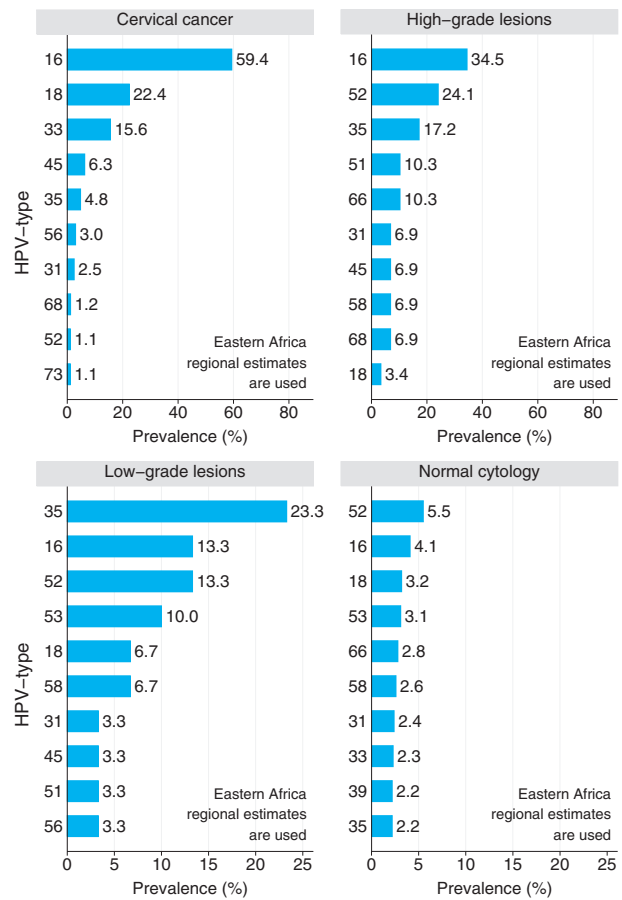


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	85

DTP: Diphtheria, Tetanus and Pertussis

MALAYSIA



has a population of 8.49 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1492 women are diagnosed with cervical cancer and 766 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Malaysia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Malaysia. However, in South-Eastern Asia, the region Malaysia belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.1	6.8
Age-standardized rate	15.7	8.4
Cumulative risk 0-64 years (%)	1.2	0.6
SIR/SMR	95	92
Annual number of new cases/deaths	1492	766
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

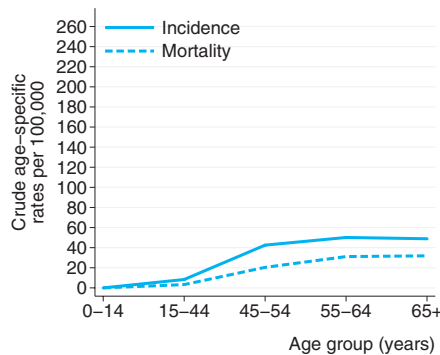


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

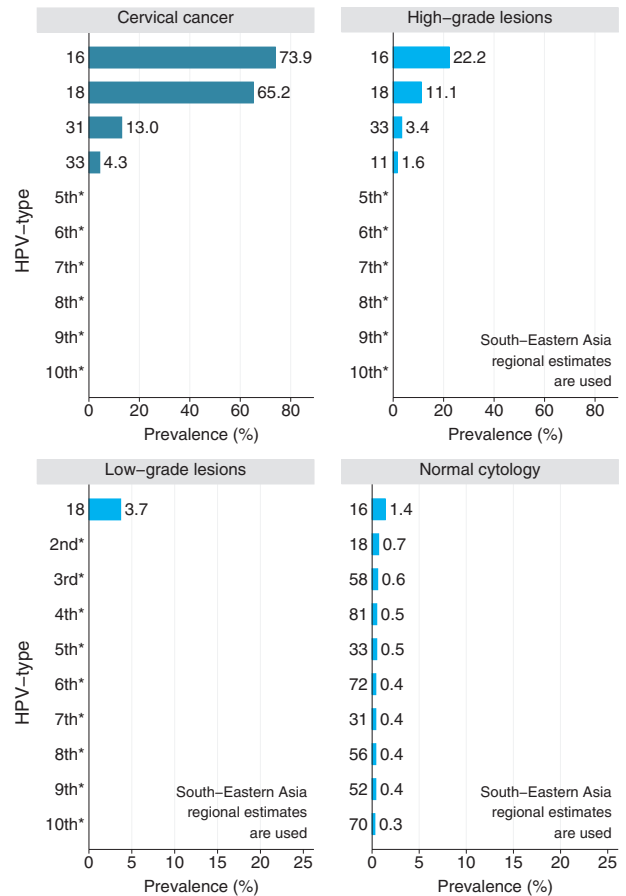
HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	1.6
Fertility rate (live births per women)	3.1
Oral Contraceptive Use (%)	13.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type	23	95.7* (78.1-99.9)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

MALDIVES



has a population of 94860 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Maldives. However, in Southern Asia, the region Maldives belongs to, current estimates indicate that

every year 153535 women are diagnosed with cervical cancer and 85192 die from the disease. Cervical cancer ranks as the 1st most frequent cancer in women in Southern Asia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Maldives. However, in Southern Asia about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

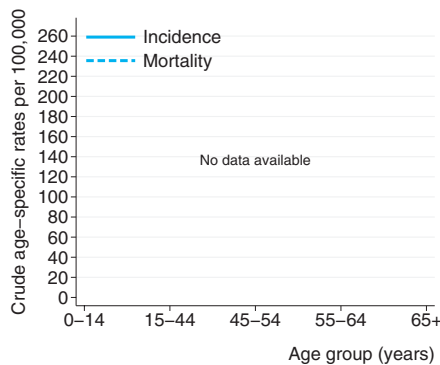


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	15.6
Fertility rate (live births per women)	6.4
Oral Contraceptive Use (%)	13.0

Table 4. Burden of HPV in women with and without cervical disease

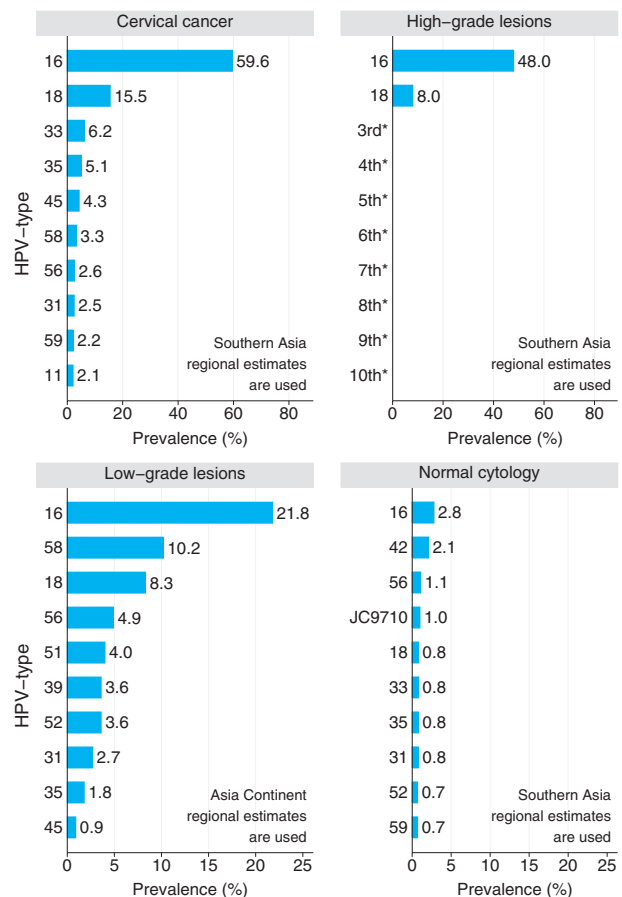
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18†	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



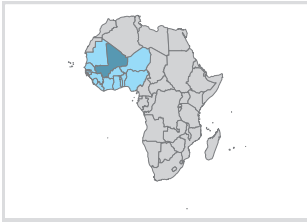
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

MALI



has a population of 3.58 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1336 women are diagnosed with cervical cancer and 1076 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Mali, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Mali. However, in Western Africa, the region Mali belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Mali 54.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22	17.8
Age-standardized rate	35.2	28.4
Cumulative risk 0-64 years (%)	2.7	2.1
SIR/SMR	211	320
Annual number of new cases/deaths	1336	1076
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

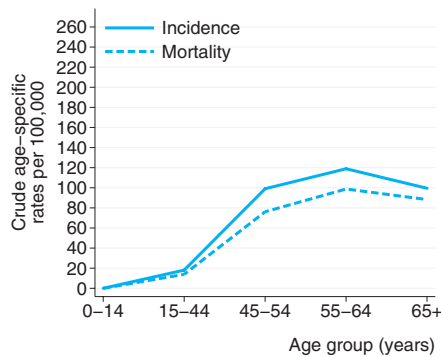


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.7
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	7.0
Oral Contraceptive Use (%)	2.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type	123	94.3* (88.6-97.7)
Cervical cancer: HPV 16/18	123	54.5 (45.2-63.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

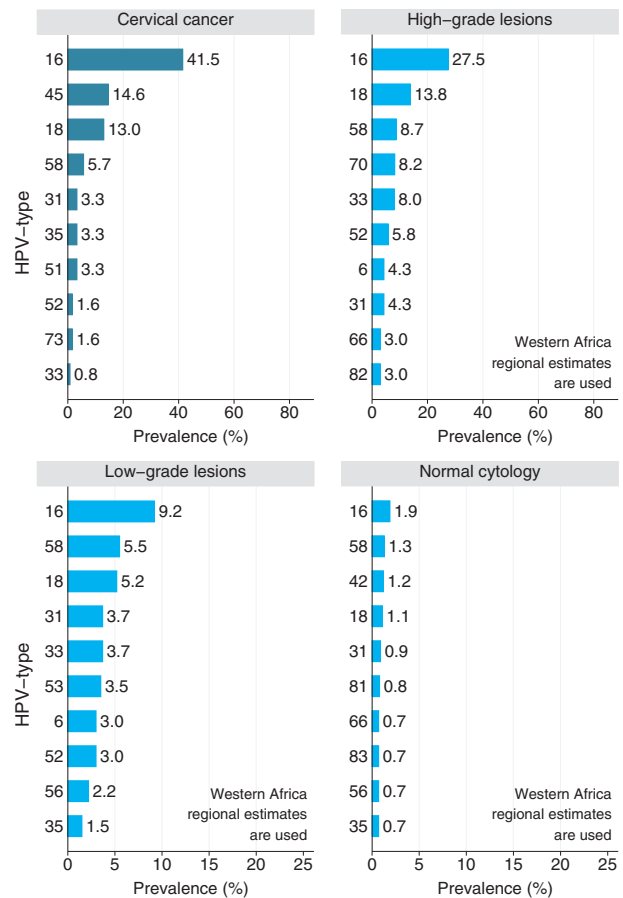
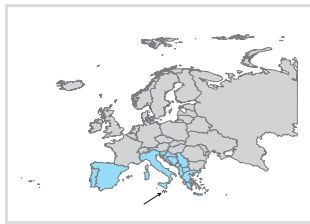


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	71

DTP: Diphtheria, Tetanus and Pertussis

MALTA



has a population of 167846 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 14 women are diagnosed with cervical cancer and 6 die from the disease. Cervical cancer ranks as the 14th most frequent

cancer in women in Malta, and the 4th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Malta. However, in Southern Europe, the region Malta belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	6.6	2.8
Age-standardized rate	4.8	1.6
Cumulative risk 0-64 years (%)	0.3	0.1
SIR/SMR	30	21
Annual number of new cases/deaths	14	6
Ranking of cervical cancer (all ages) †	14th	11th
Ranking of cervical cancer (15-44 years) †	4th	14th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

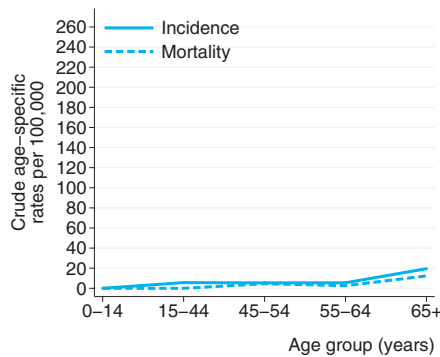


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	17.6
Fertility rate (live births per women)	1.5
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

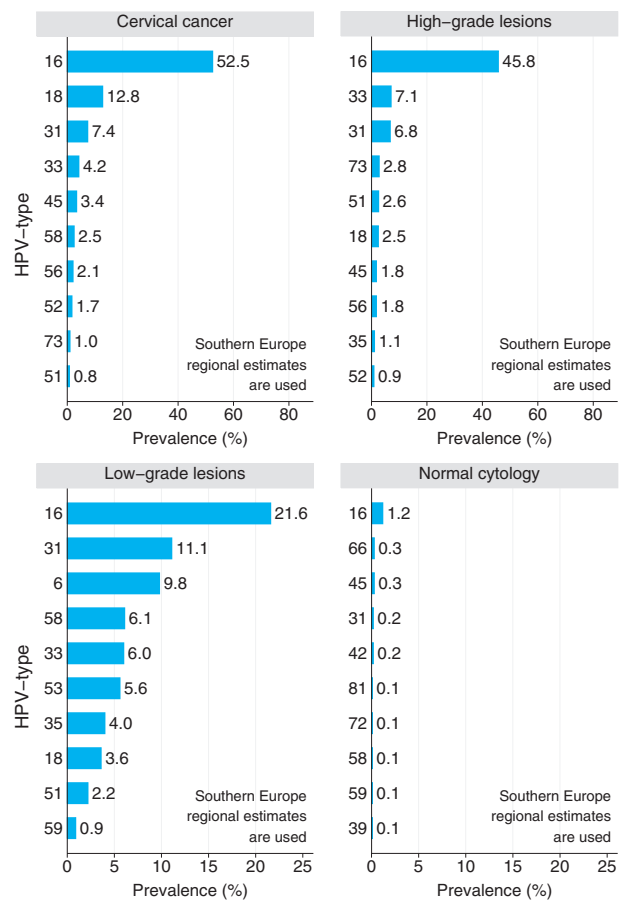
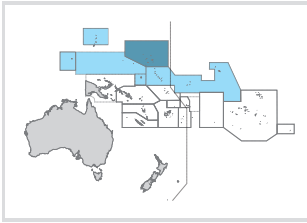


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

MARSHALL ISLANDS



Data is not yet available on the burden of cervical cancer in Marshall Islands. However, in Micronesia, the region Marshall Islands belongs to, current estimates indicate that every year 19 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the 4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Marshall Islands, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV16 or 18.

Cervical cancer ranks as the 4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Marshall Islands, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

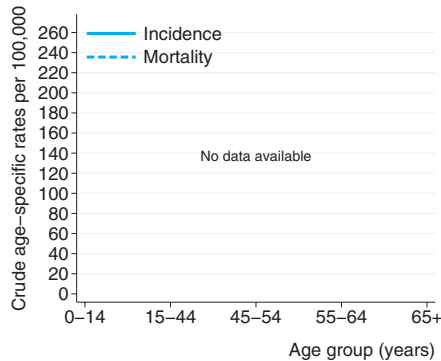


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

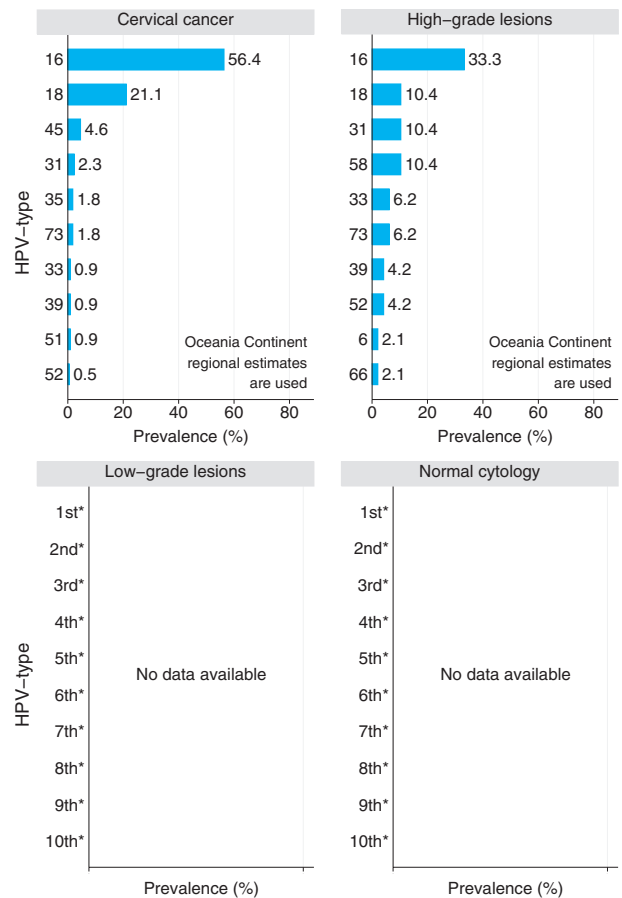
HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



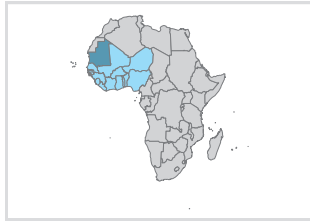
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	74
Percentage of districts with >=80% DTP3 coverage	67

DTP: Diphtheria, Tetanus and Pertussis

MAURITANIA



has a population of 894005 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 259 women are diagnosed with cervical cancer and 209 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Mauritania, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Mauritania. However, in Western Africa, the region Mauritania belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.2	14.6
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	171	265
Annual number of new cases/deaths	259	209
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

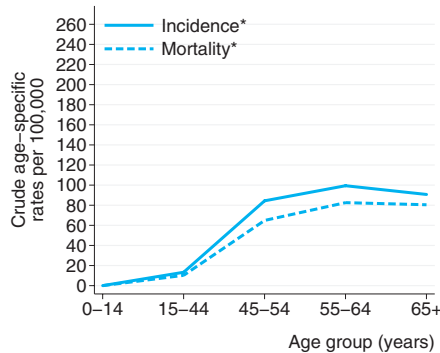


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.7
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.7
Oral Contraceptive Use (%)	2.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

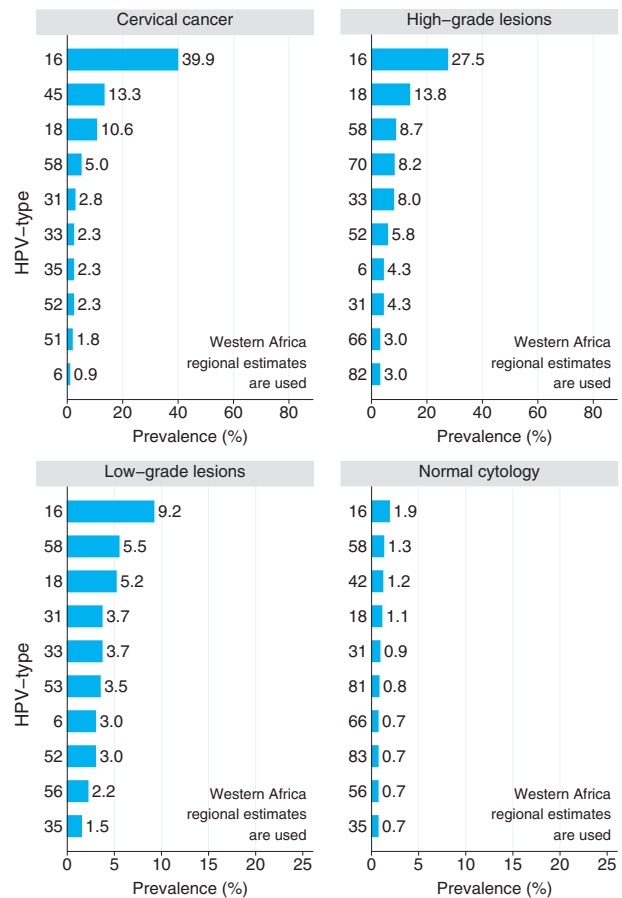


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	68
Percentage of districts with >=80% DTP3 coverage	21

DTP: Diphtheria, Tetanus and Pertussis

MAURITIUS



has a population of 476138 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 111 women are diagnosed with cervical cancer and 61 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Mauritius, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Mauritius. However, in Eastern Africa, the region Mauritius belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.8	10.4
Age-standardized rate	18.2	10.2
Cumulative risk 0-64 years (%)	1.1	0.6
SIR/SMR	111	112
Annual number of new cases/deaths	111	61
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

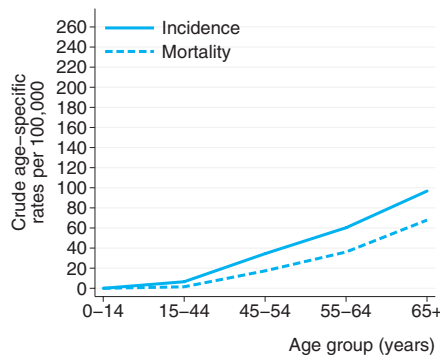


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	1
Fertility rate (live births per women)	2.0
Oral Contraceptive Use (%)	20.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

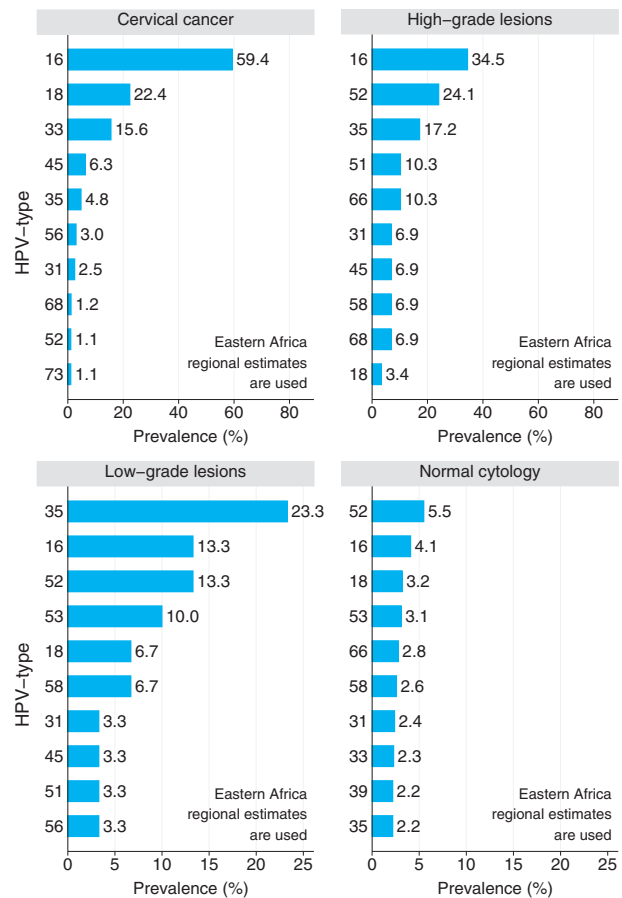


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

MEXICO



has a population of 38.38 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 12516 women are diagnosed with cervical cancer and 5777 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Mexico, and the 1st most frequent cancer among women between 15 and 44 years of age. About 11.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 58.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24.4	11.2
Age-standardized rate	29.5	14.1
Cumulative risk 0-64 years (%)	2	0.9
SIR/SMR	177	154
Annual number of new cases/deaths	12516	5777
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

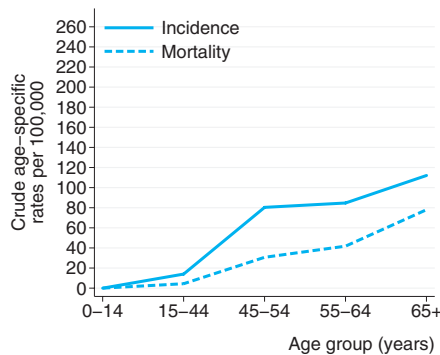


Table 2. Cervical screening coverage

Ever screened: 63.3% among women aged 15-49 years in Morelos (1996/97); 81.6% among women aged 15-49 years in Guadalajara (1997); 45% among women aged 14-54 years in Mexico City (1997/98)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	4.7
Fertility rate (live births per women)	2.7
Oral Contraceptive Use (%)	7.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	2335	11.0 (9.7-12.3)
Low-grade lesions	165	37.6 (30.2-45.4)
High-grade lesions	91	90.1 (82.1-95.4)
Cervical cancer: any type	129	91.5* (85.3-95.7)
Cervical cancer: HPV 16/18	129	58.1 (49.1-66.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

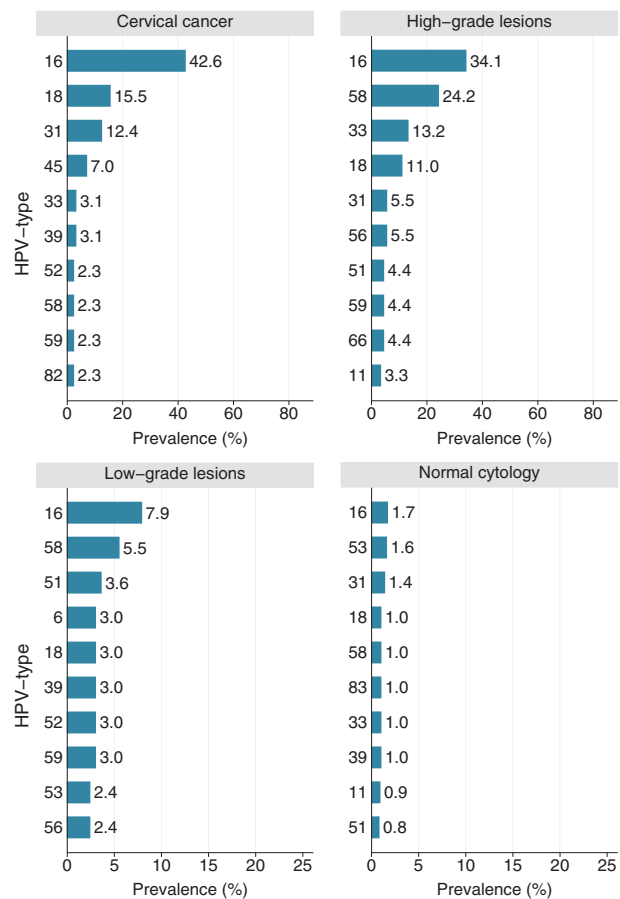


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	92

DTP: Diphtheria, Tetanus and Pertussis

MICRONESIA



has a population of 33813 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Micronesia. However, in Micronesia, the region Micronesia belongs to, current estimates indicate that

every year 19 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the 4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Micronesia, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

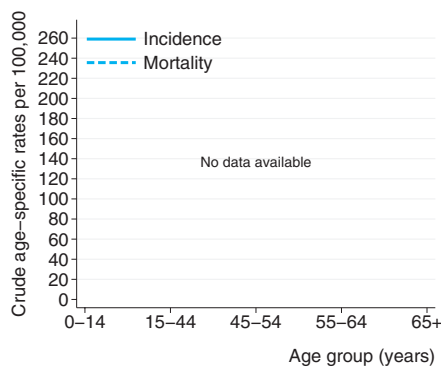


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

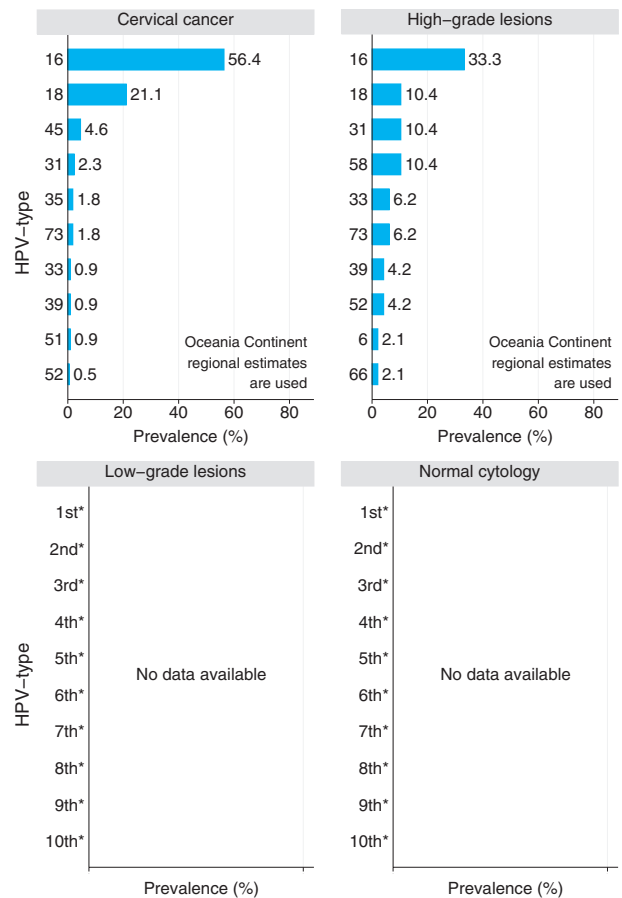
HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	67
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

MONACO



Data is not yet available on the burden of cervical cancer in Monaco. However, in Western Europe, the region Monaco belongs to, current estimates indicate that every year 12744 women are diagnosed with cervical cancer and 5671 die from the disease. Cervical cancer

ranks as the 8th most frequent cancer in women in Western Europe, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Monaco. However, in Western Europe about 6.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 73.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

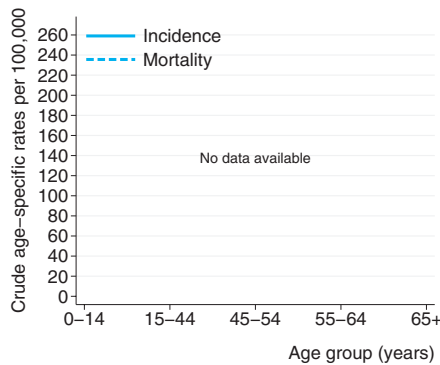


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	48701	6.1 (5.9-6.4)
Low-grade lesions†	312	68.6 (63.1-73.7)
High-grade lesions†	1664	93.3 (92.0-94.5)
Cervical cancer: any type†	998	86.8* (84.5-88.8)
Cervical cancer: HPV 16/18†	998	73.6 (70.8-76.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

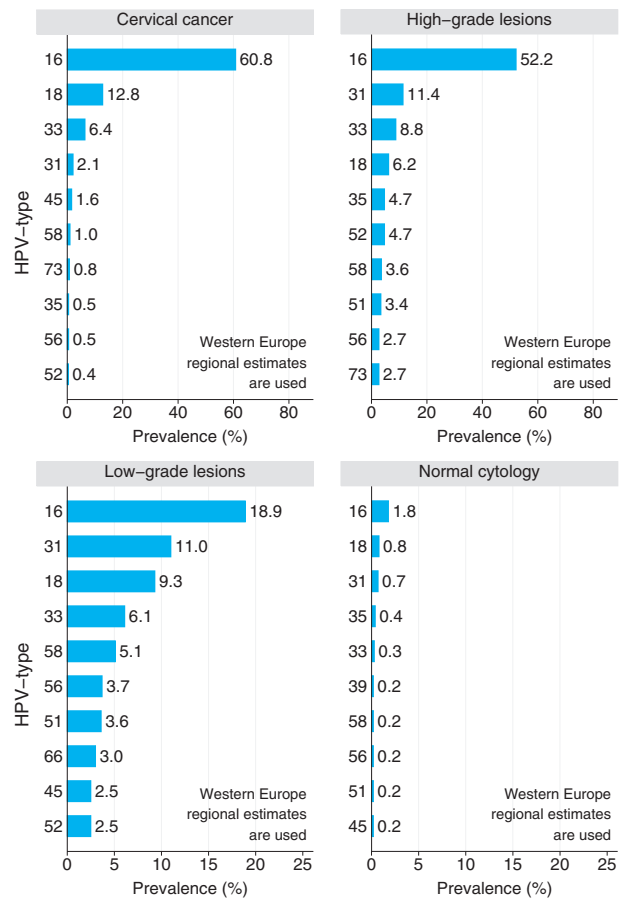


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

MONGOLIA



has a population of 927277 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 171 women are diagnosed with cervical cancer and 92 die from the disease. Cervical cancer ranks as the 3rd most frequent

cancer in women in Mongolia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Mongolia. However, in Eastern Asia, the region Mongolia belongs to, about 10.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 64.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	13.3	7.1
Age-standardized rate	18	10.1
Cumulative risk 0-64 years (%)	1.4	0.8
SIR/SMR	108	112
Annual number of new cases/deaths	171	92
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

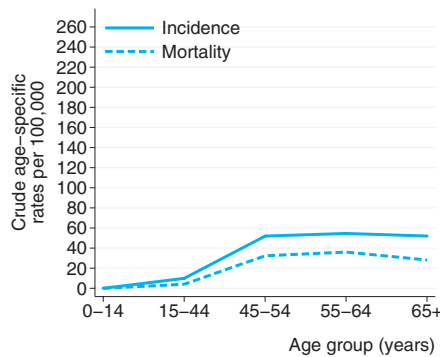


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	25.5
Fertility rate (live births per women)	2.3
Oral Contraceptive Use (%)	8.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	17767	10.6 (10.1-11.0)
Low-grade lesions†	225	71.1 (64.7-76.9)
High-grade lesions†	1132	81.3 (78.9-83.5)
Cervical cancer: any type†	4176	83.8* (82.7-84.9)
Cervical cancer: HPV 16/18†	4176	64.5 (63.1-66.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

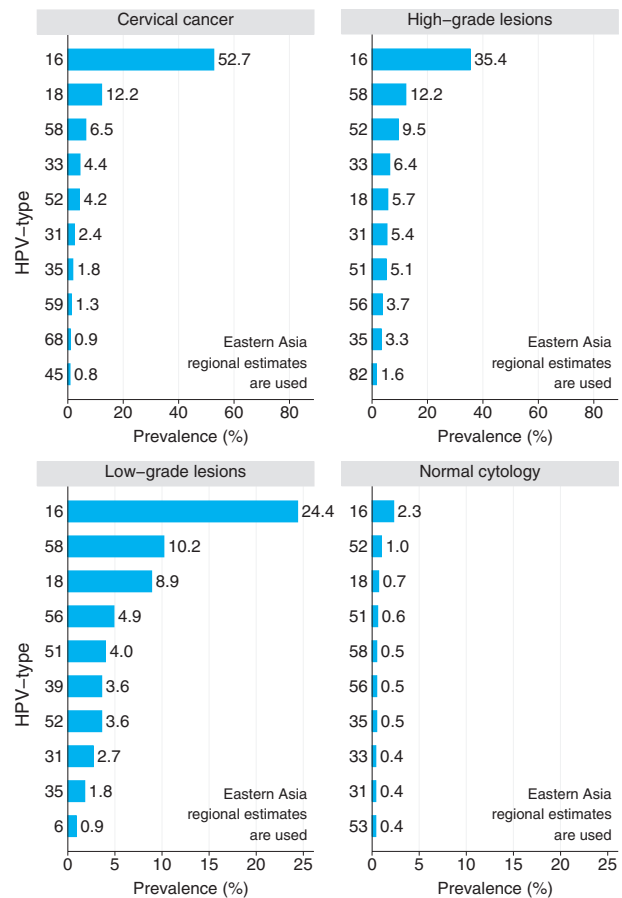


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with $\geq 80\%$ DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

MONTENEGRO



has a population of 4.35 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1816 women are diagnosed with cervical cancer and 815 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Montenegro, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Montenegro. However, in Southern Europe, the region Montenegro belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	34.4	15.5
Age-standardized rate	27.3	10.1
Cumulative risk 0-64 years (%)	2	0.6
SIR/SMR	157	119
Annual number of new cases/deaths	1816	815
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

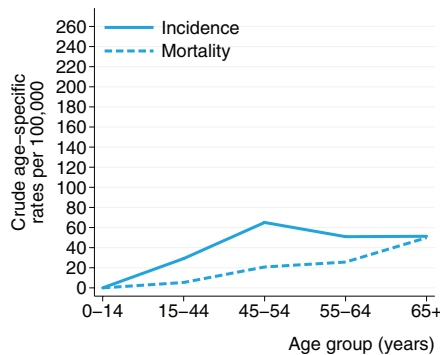


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	4.7

Estimates for the population, Tables 1 and 3 and Figure 1 are aggregated for Serbia and Montenegro.

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

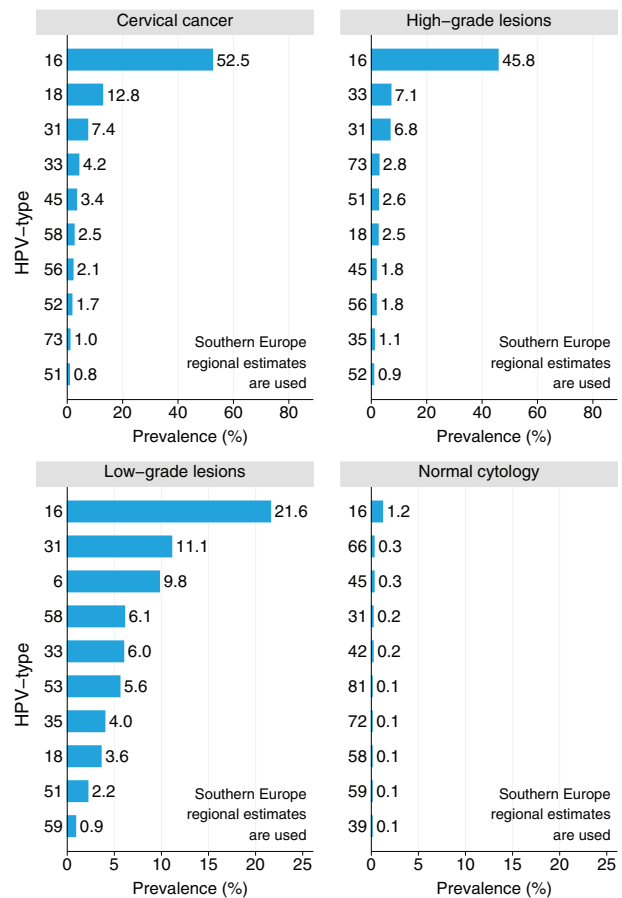
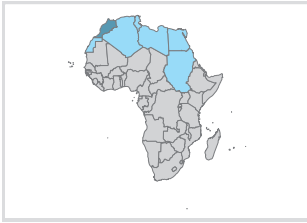


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	90
Percentage of districts with >=80% DTP3 coverage	95

DTP: Diphtheria, Tetanus and Pertussis

MOROCCO



has a population of 11.02 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1550 women are diagnosed with cervical cancer and 1247 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Morocco, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10	8.1
Age-standardized rate	13.2	10.7
Cumulative risk 0-64 years (%)	1.1	0.8
SIR/SMR	77	118
Annual number of new cases/deaths	1550	1247
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

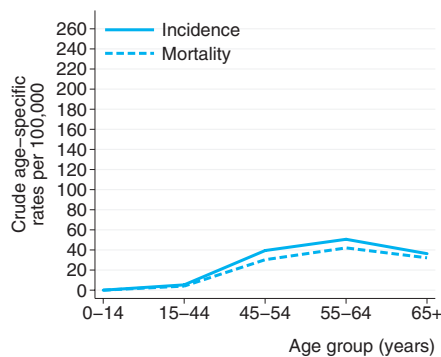


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	0.1
Fertility rate (live births per women)	3.0
Oral Contraceptive Use (%)	40.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type	152	94.7* (89.9-97.7)
Cervical cancer: HPV 16/18	152	67.1 (59.0-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

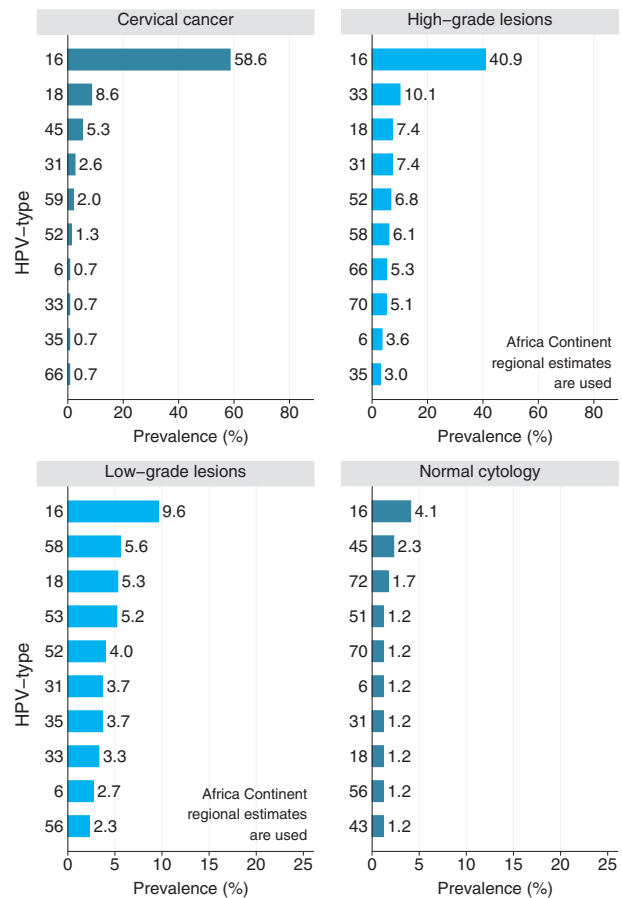


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	99

DTP: Diphtheria, Tetanus and Pertussis

MOZAMBIQUE



has a population of 5.88 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2058 women are diagnosed with cervical cancer and 1654 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Mozambique, and the 1st most frequent cancer among women between 15 and 44 years of age. About 32.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	21.5	17.3
Age-standardized rate	33.6	27.2
Cumulative risk 0-64 years (%)	2.6	2
SIR/SMR	198	304
Annual number of new cases/deaths	2058	1654
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

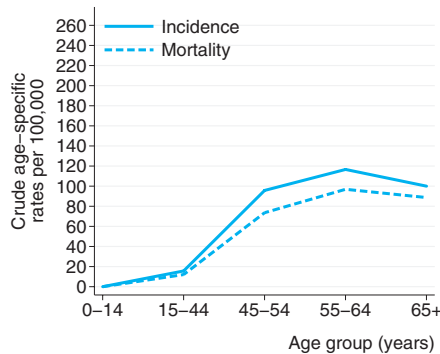


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	16.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.6
Oral Contraceptive Use (%)	4.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	196	32.1 (25.7-39.2)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type	72	97.2* (90.3-99.7)
Cervical cancer: HPV 16/18	72	81.9 (71.1-90.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

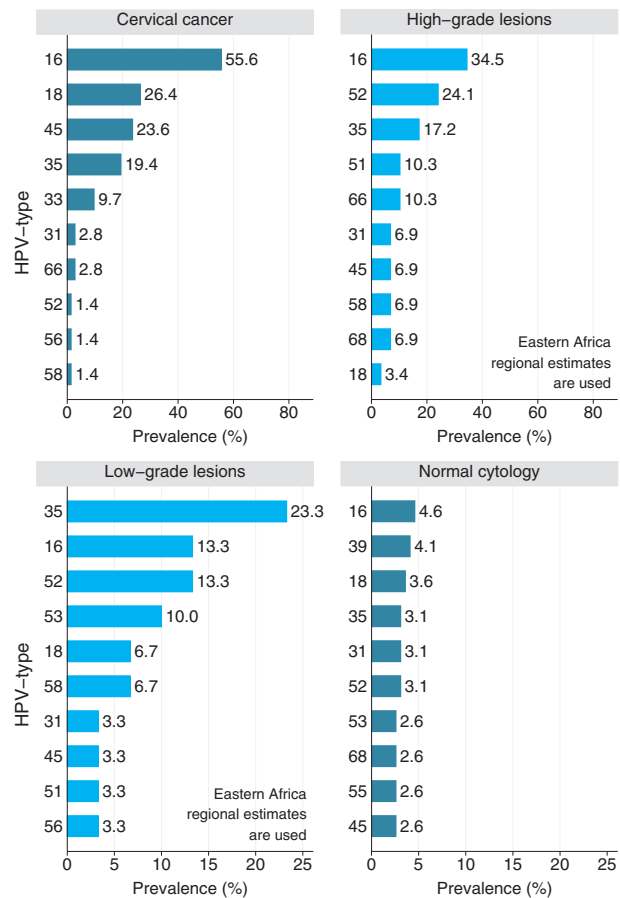


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	72
Percentage of districts with >=80% DTP3 coverage	90

DTP: Diphtheria, Tetanus and Pertussis

MYANMAR



has a population of 18.08 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 5017 women are diagnosed with cervical cancer and 2594 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Myanmar, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Myanmar. However, in South-Eastern Asia, the region Myanmar belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.4	10.6
Age-standardized rate	24.6	13.1
Cumulative risk 0-64 years (%)	2	1.1
SIR/SMR	146	143
Annual number of new cases/deaths	5017	2594
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

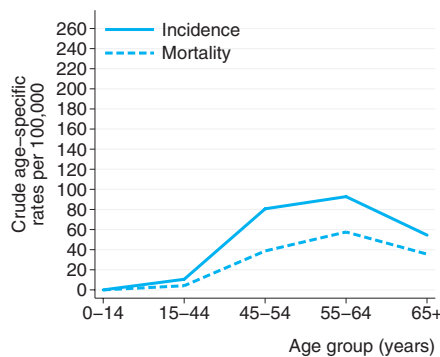


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

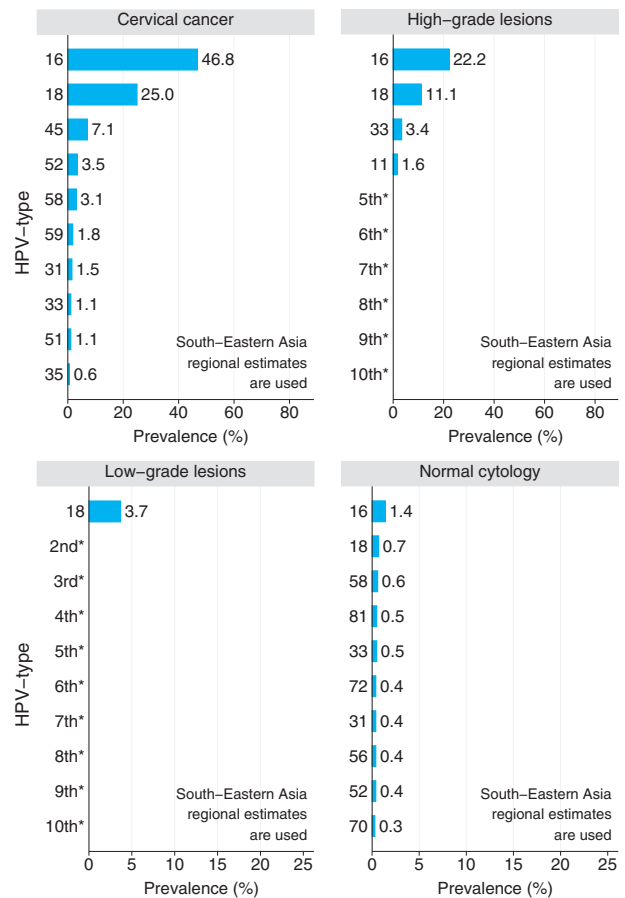
HIV rate (%) in adults (15-49 years)	1.3
Smoking prevalence in women (%)	12.2
Fertility rate (live births per women)	2.9
Oral Contraceptive Use (%)	9.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	82
Percentage of districts with >=80% DTP3 coverage	62

DTP: Diphtheria, Tetanus and Pertussis

NAMIBIA



has a population of 605392 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 133 women are diagnosed with cervical cancer and 109 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Namibia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Namibia. However, in Southern Africa, the region Namibia belongs to, about 15.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.0% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.5	11.8
Age-standardized rate	22.2	18.1
Cumulative risk 0-64 years (%)	1.5	1.2
SIR/SMR	130	201
Annual number of new cases/deaths	133	109
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

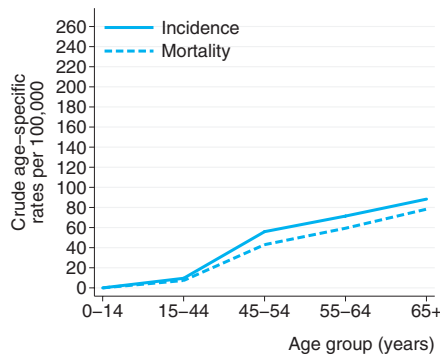


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	19.6
Smoking prevalence in women (%)	9.6
Fertility rate (live births per women)	5.2
Oral Contraceptive Use (%)	8.2

Table 4. Burden of HPV in women with and without cervical disease

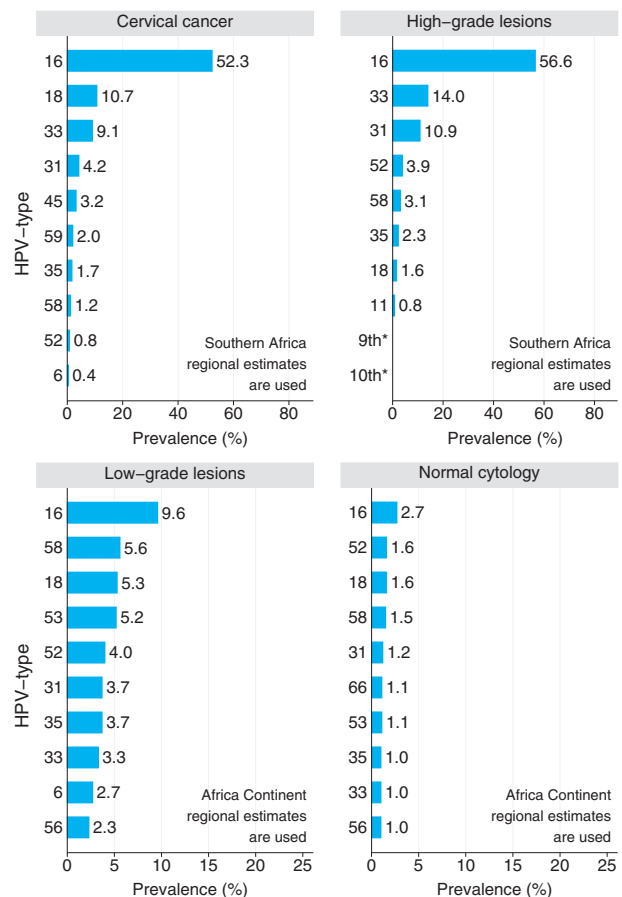
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	1269	15.5 (13.6-17.6)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions†	129	88.4 (81.5-93.3)
Cervical cancer: any type†	308	93.8* (90.5-96.2)
Cervical cancer: HPV 16/18†	308	63.0 (57.3-68.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	74
Percentage of districts with >=80% DTP3 coverage	32

DTP: Diphtheria, Tetanus and Pertussis

NAURU



Data is not yet available on the burden of cervical cancer in Nauru. However, in Micronesia, the region Nauru belongs to, current estimates indicate that every year 19 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the

4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Nauru, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

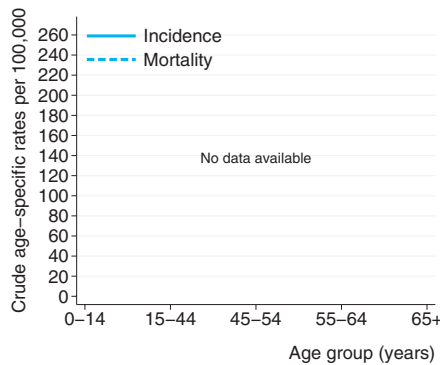


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

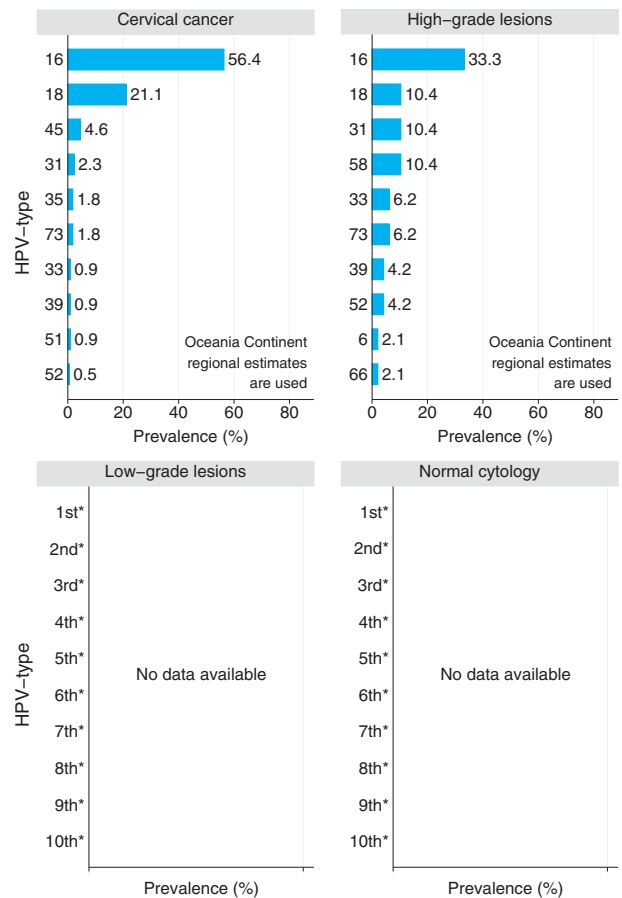
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	72
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

NEPAL



has a population of 8.54 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2185 women are diagnosed with cervical cancer and 1129 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Nepal, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Nepal. However, in Southern Asia, the region Nepal belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.6	9.6
Age-standardized rate	26.4	14.1
Cumulative risk 0-64 years (%)	2.1	1.1
SIR/SMR	157	154
Annual number of new cases/deaths	2185	1129
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

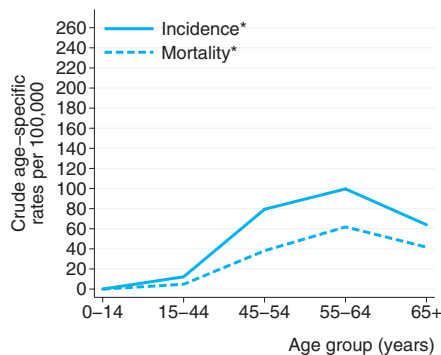


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	24
Fertility rate (live births per women)	4.3
Oral Contraceptive Use (%)	1.6

Table 4. Burden of HPV in women with and without cervical disease

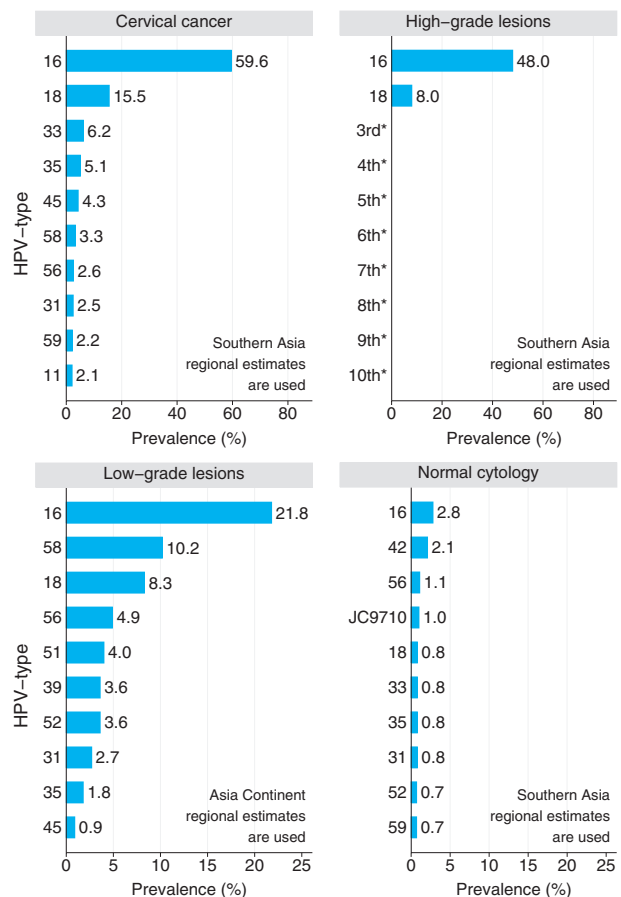
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18†	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	89
Percentage of districts with >=80% DTP3 coverage	77

DTP: Diphtheria, Tetanus and Pertussis

NETHERLANDS



has a population of 6.76 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 753 women are diagnosed with cervical cancer and 307 die from the disease. Cervical cancer ranks as the 11th most

frequent cancer in women in Netherlands, and the 3rd most frequent cancer among women between 15 and 44 years of age. About 3.9% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 84.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	9.4	3.8
Age-standardized rate	7.3	2.3
Cumulative risk 0-64 years (%)	0.5	0.1
SIR/SMR	42	29
Annual number of new cases/deaths	753	307
Ranking of cervical cancer (all ages) †	11th	15th
Ranking of cervical cancer (15-44 years) †	3rd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

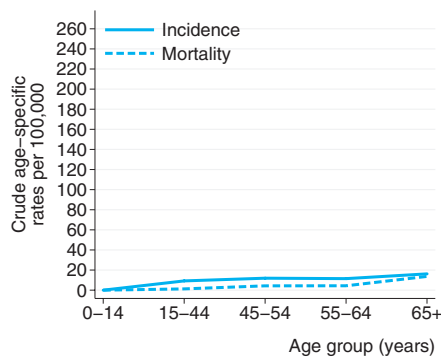


Table 2. Cervical screening coverage

80% among women 30-64 years in the last 5 years (1996-1997)

Table 3. Factors contributing to cervical cancer

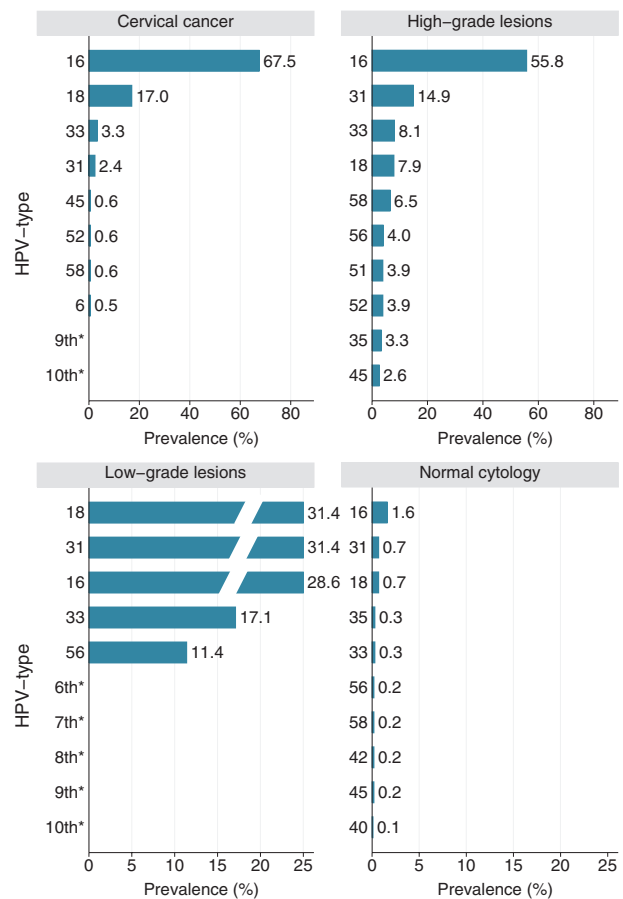
HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	28.4
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	49.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	26908	3.9 (3.6-4.1)
Low-grade lesions	35	97.1 (85.1-99.9)
High-grade lesions	731	97.7 (96.3-98.6)
Cervical cancer: any type	212	90.6* (85.8-94.1)
Cervical cancer: HPV 16/18	212	84.4 (78.8-89.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

NEW ZEALAND



has a population of 1.63 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 228 women are diagnosed with cervical cancer and 82 die from the disease. Cervical cancer ranks as the 8th most

frequent cancer in women in New Zealand, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of New Zealand, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Australia and New Zealand, the region New Zealand belongs to, about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	11.7	4.2
Age-standardized rate	10	3.2
Cumulative risk 0-64 years (%)	0.7	0.2
SIR/SMR	58	36
Annual number of new cases/deaths	228	82
Ranking of cervical cancer (all ages) †	8th	11th
Ranking of cervical cancer (15-44 years) †	3rd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

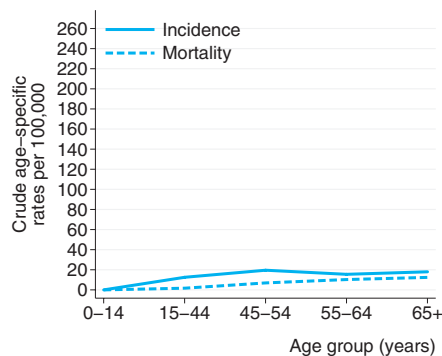


Table 2. Cervical screening coverage

76% among women aged 20-69 years (1998); 99.14% among women aged 20-69 years (2003)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	22.2
Fertility rate (live births per women)	2.0
Oral Contraceptive Use (%)	20.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Australia and New Zealand regional estimate

‡Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	89
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

NICARAGUA



has a population of 1.70 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 809 women are diagnosed with cervical cancer and 354 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Nicaragua, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Nicaragua. However, in Central America, the region Nicaragua belongs to, about 20.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 58.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.2	13.2
Age-standardized rate	47.2	22.3
Cumulative risk 0-64 years (%)	3.1	1.3
SIR/SMR	281	241
Annual number of new cases/deaths	809	354
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

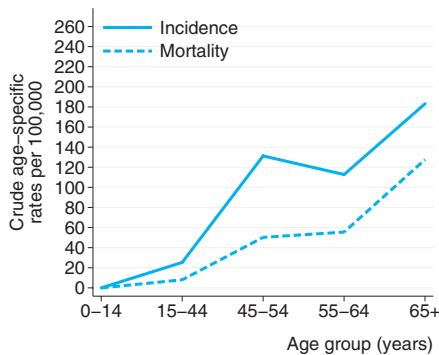


Table 2. Cervical screening coverage

20.5% in the last 12 months among women aged 15-49 years (1998)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	5.3
Fertility rate (live births per women)	3.3
Oral Contraceptive Use (%)	14.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	10232	20.5 (19.7-21.3)
Low-grade lesions†	390	55.1 (50.0-60.1)
High-grade lesions†	280	86.8 (82.2-90.5)
Cervical cancer: any type†	341	90.3* (86.7-93.2)
Cervical cancer: HPV 16/18†	341	58.4 (52.9-63.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Central America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

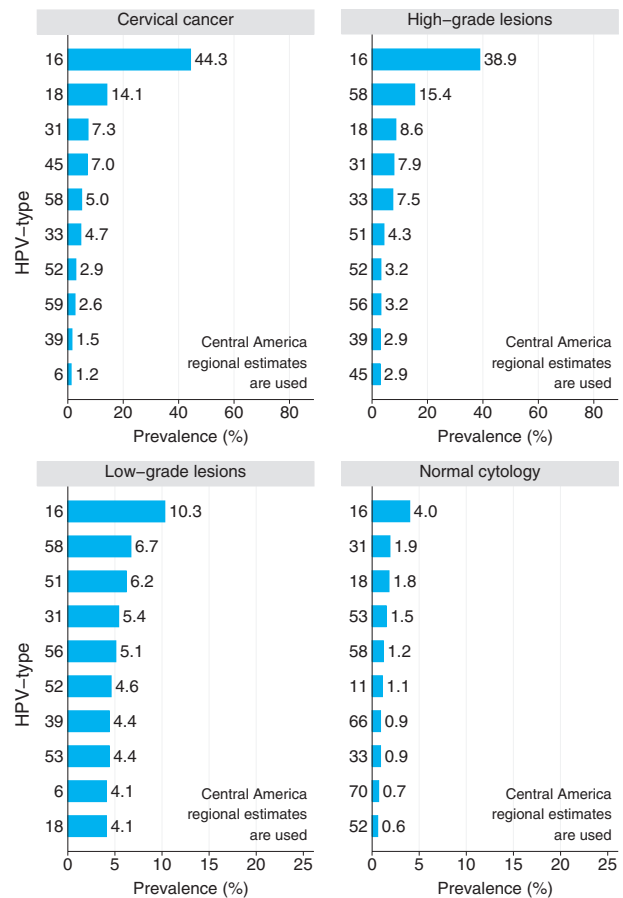
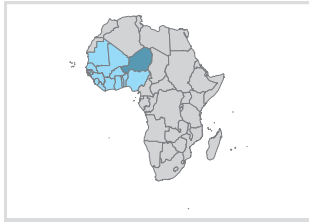


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with >=80% DTP3 coverage	59

DTP: Diphtheria, Tetanus and Pertussis

NIGER



has a population of 3.49 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 679 women are diagnosed with cervical cancer and 532 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Niger, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Niger. However, in Western Africa, the region Niger belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	11.8	9.2
Age-standardized rate	19.9	15.7
Cumulative risk 0-64 years (%)	1.6	1.2
SIR/SMR	133	208
Annual number of new cases/deaths	679	532
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

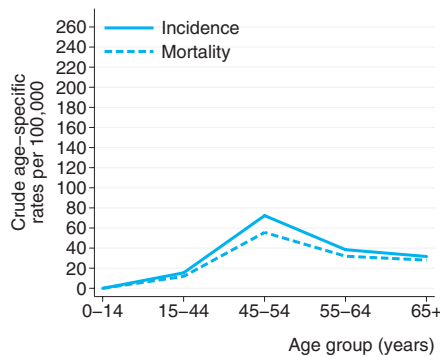


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.1
Smoking prevalence in women (%)	11.3
Fertility rate (live births per women)	7.5
Oral Contraceptive Use (%)	3.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

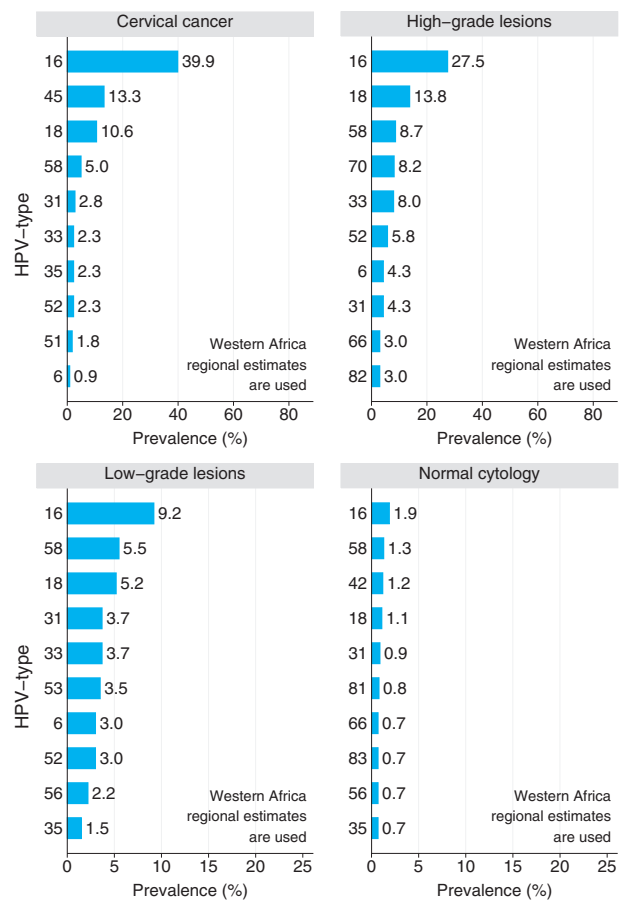
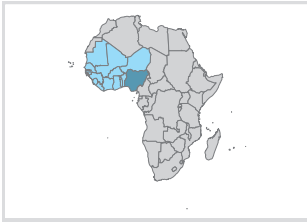


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	39
Percentage of districts with >=80% DTP3 coverage	88

DTP: Diphtheria, Tetanus and Pertussis

NIGERIA



has a population of 36.59 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 9922 women are diagnosed with cervical cancer and 8030 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Nigeria, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 24.8% of women in the general population are estimated to harbour cervical HPV infection at a given time. Data on specific HPV-16 and 18 prevalence for Nigeria among women with invasive cervical cancer is not yet available, but in Western Africa 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.7	13.5
Age-standardized rate	28.5	23.3
Cumulative risk 0-64 years (%)	2.1	1.7
SIR/SMR	160	251
Annual number of new cases/deaths	9922	8030
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

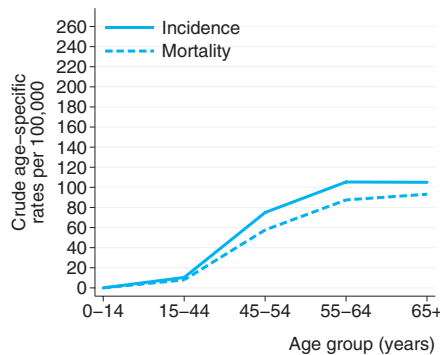


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

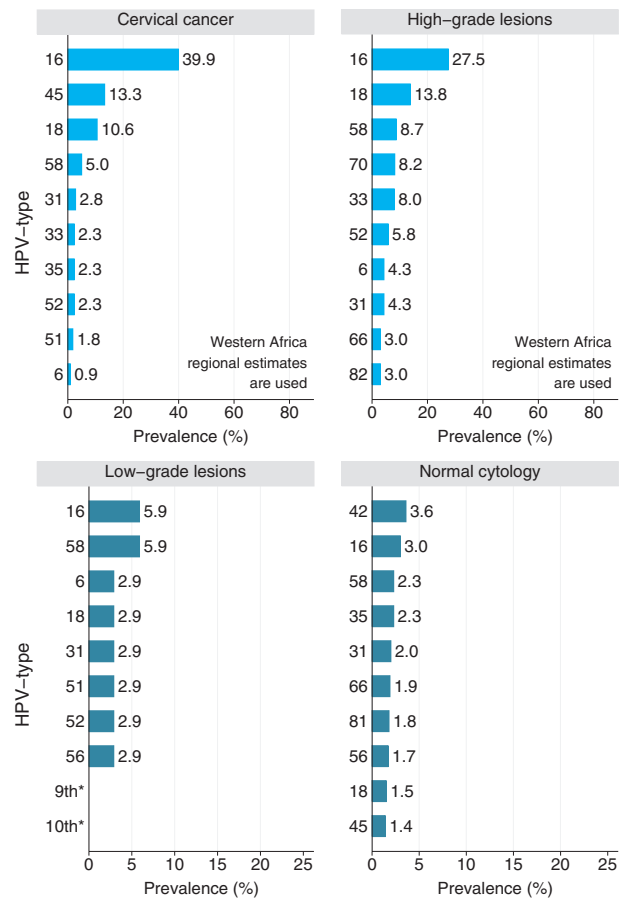
HIV rate (%) in adults (15-49 years)	3.9
Smoking prevalence in women (%)	0.5
Fertility rate (live births per women)	5.1
Oral Contraceptive Use (%)	1.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	844	24.8 (21.9-27.8)
Low-grade lesions	34	38.2 (22.2-56.4)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



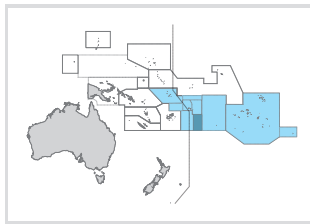
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	54
Percentage of districts with >=80% DTP3 coverage	40

DTP: Diphtheria, Tetanus and Pertussis

NIUE



Data is not yet available on the burden of cervical cancer in Niue. However, in Polynesia, the region Niue belongs to, current estimates indicate that every year 72 women are diagnosed with cervical cancer and 38 die from the disease. Cervical cancer ranks as the

2nd most frequent cancer in women in Polynesia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Niue, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

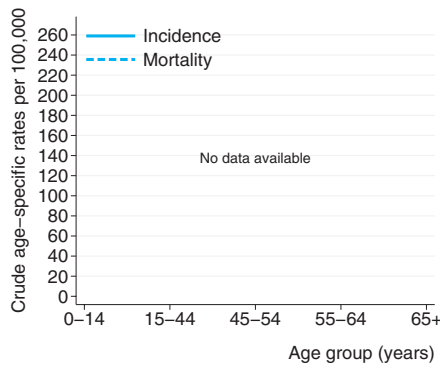


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

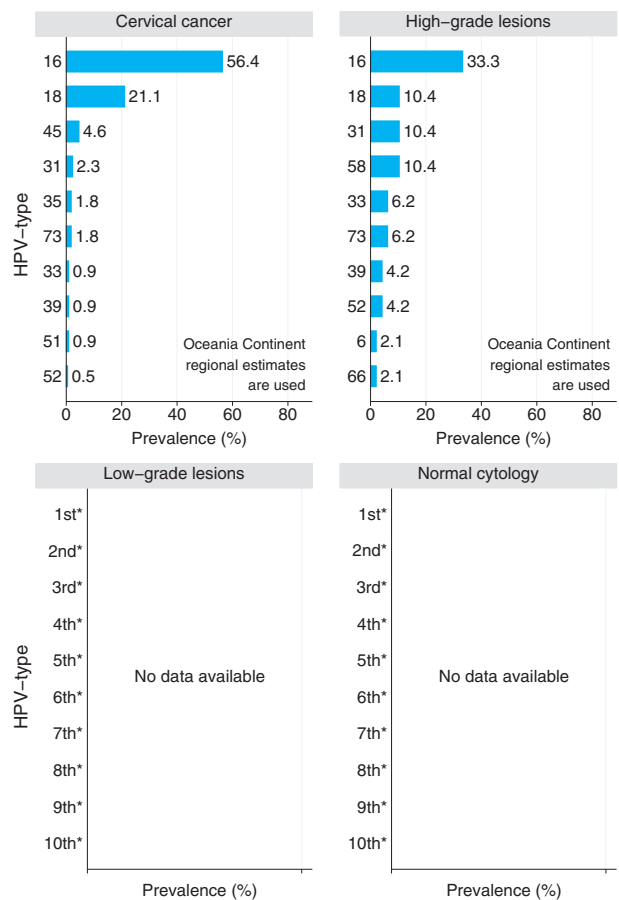
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

NORWAY



has a population of 1.88 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 291 women are diagnosed with cervical cancer and 125 die from the disease. Cervical cancer ranks as the 8th most

frequent cancer in women in Norway, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Norway. However, in Northern Europe, the region Norway belongs to, about 8.0% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Norway 82.5% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	12.9	5.5
Age-standardized rate	10.4	3.5
Cumulative risk 0-64 years (%)	0.8	0.2
SIR/SMR	58	41
Annual number of new cases/deaths	291	125
Ranking of cervical cancer (all ages) †	8th	11th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

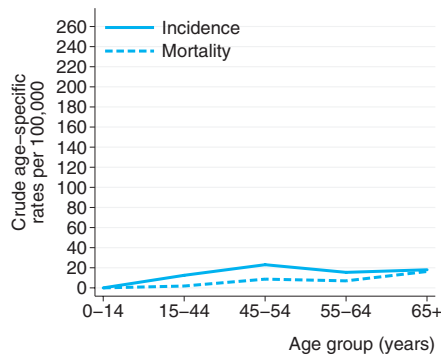


Table 2. Cervical screening coverage

71% (1998-2000)

Table 3. Factors contributing to cervical cancer

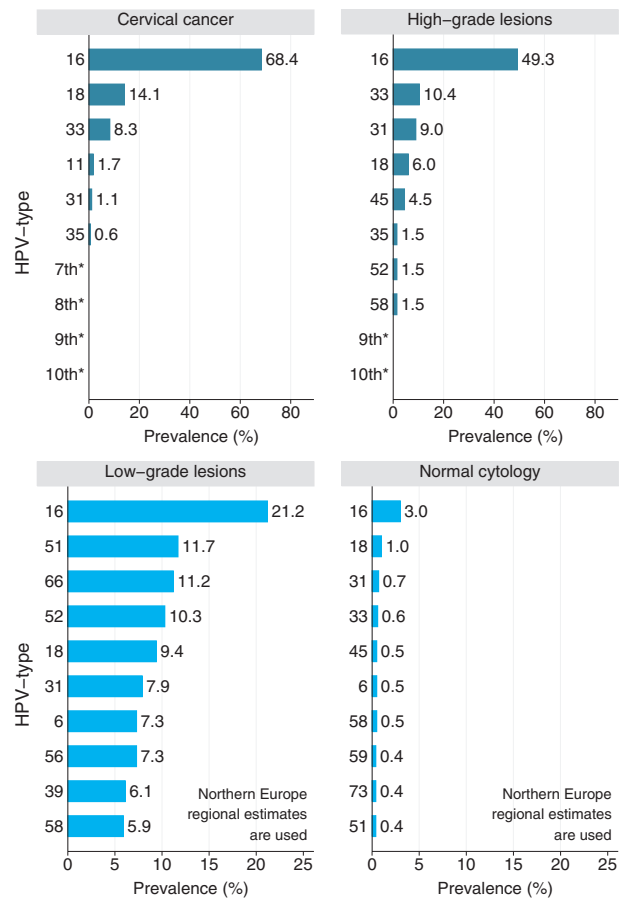
HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	24.8
Fertility rate (live births per women)	1.8
Oral Contraceptive Use (%)	17.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	16235	8.0 (7.5-8.4)
Low-grade lesions†	646	85.3 (82.3-87.9)
High-grade lesions	67	79.1 (67.4-88.1)
Cervical cancer: any type	361	98.3* (96.4-99.4)
Cervical cancer: HPV 16/18	361	82.5 (78.2-86.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Northern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

OMAN



has a population of 691640 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 46 women are diagnosed with cervical cancer and 25 die from the disease. Cervical cancer ranks as the 3rd most frequent

cancer in women in Oman, and the 4th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Oman. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	3.6	1.9
Age-standardized rate	6.9	3.9
Cumulative risk 0-64 years (%)	0.4	0.2
SIR/SMR	36	38
Annual number of new cases/deaths	46	25
Ranking of cervical cancer (all ages) †	3rd	4th
Ranking of cervical cancer (15-44 years) †	4th	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

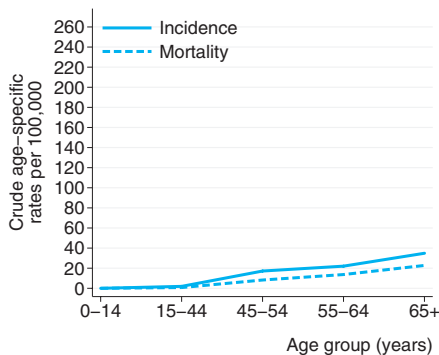


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	1.5
Fertility rate (live births per women)	7.4
Oral Contraceptive Use (%)	6.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

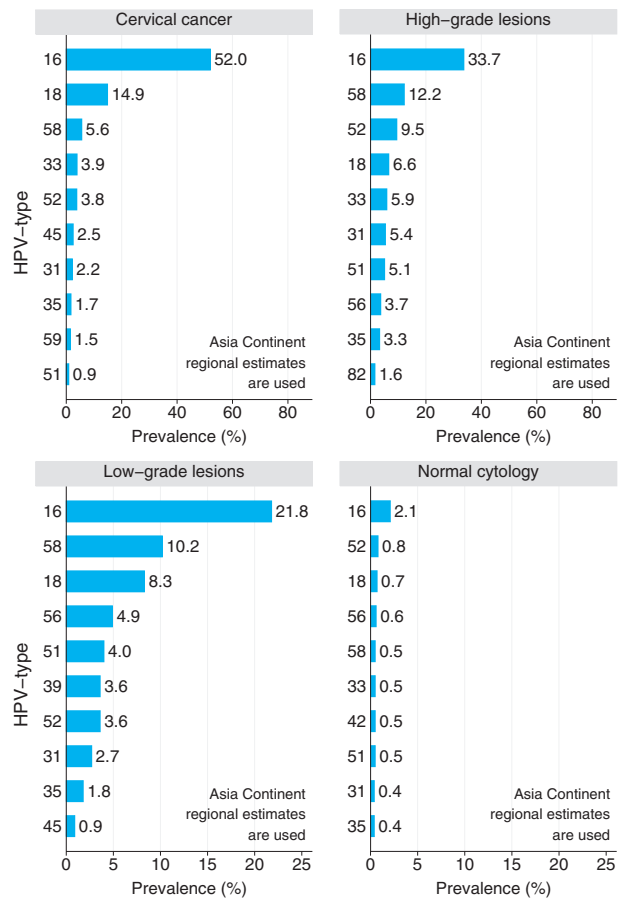


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

PAKISTAN



has a population of 47.27 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2962 women are diagnosed with cervical cancer and 1605 die from the disease. Cervical cancer ranks as the 4th

most frequent cancer in women in Pakistan, and the 12th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Pakistan. However, in Southern Asia, the region Pakistan belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	4.1	2.2
Age-standardized rate	6.5	3.6
Cumulative risk 0-64 years (%)	0.5	0.3
SIR/SMR	36	37
Annual number of new cases/deaths	2962	1605
Ranking of cervical cancer (all ages) †	4th	6th
Ranking of cervical cancer (15-44 years) †	12th	13th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

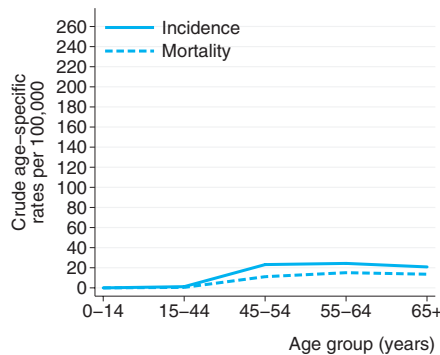


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	9
Fertility rate (live births per women)	4.8
Oral Contraceptive Use (%)	1.9

Table 4. Burden of HPV in women with and without cervical disease

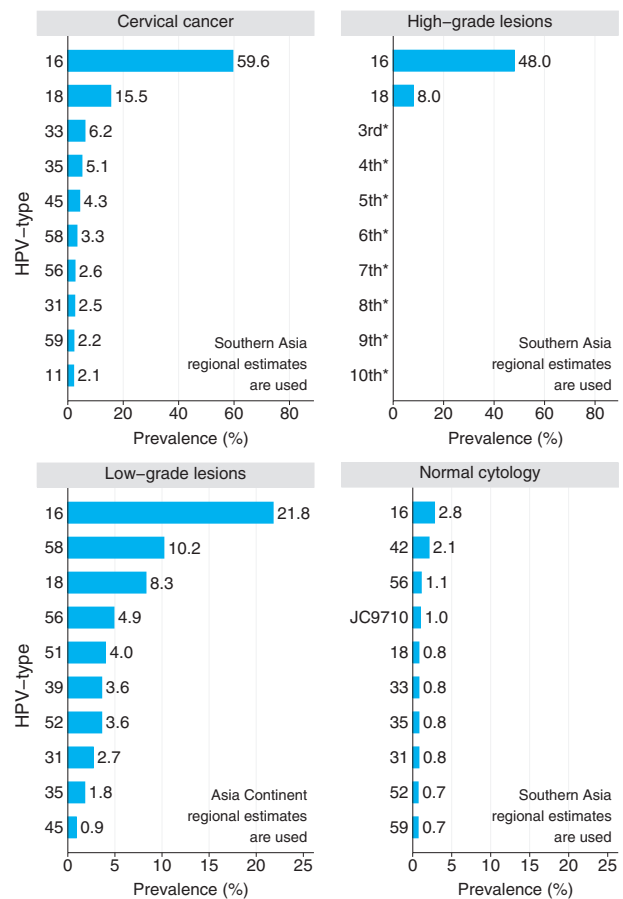
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18‡	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



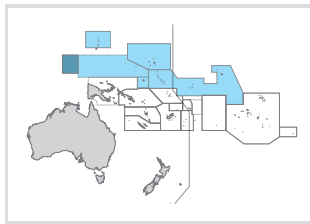
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	83
Percentage of districts with >=80% DTP3 coverage	55

DTP: Diphtheria, Tetanus and Pertussis

PALAU



Data is not yet available on the burden of cervical cancer in Palau. However, in Micronesia, the region Palau belongs to, current estimates indicate that every year 19 women are diagnosed with cervical cancer and 10 die from the disease. Cervical cancer ranks as the

4th most frequent cancer in women in Micronesia, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Palau, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

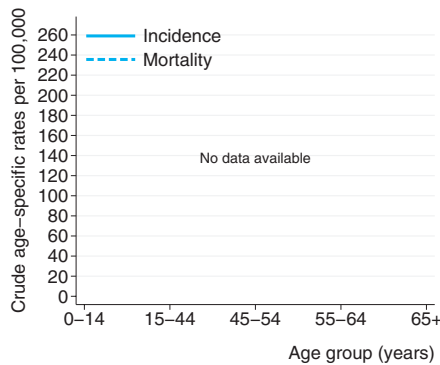


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	4
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

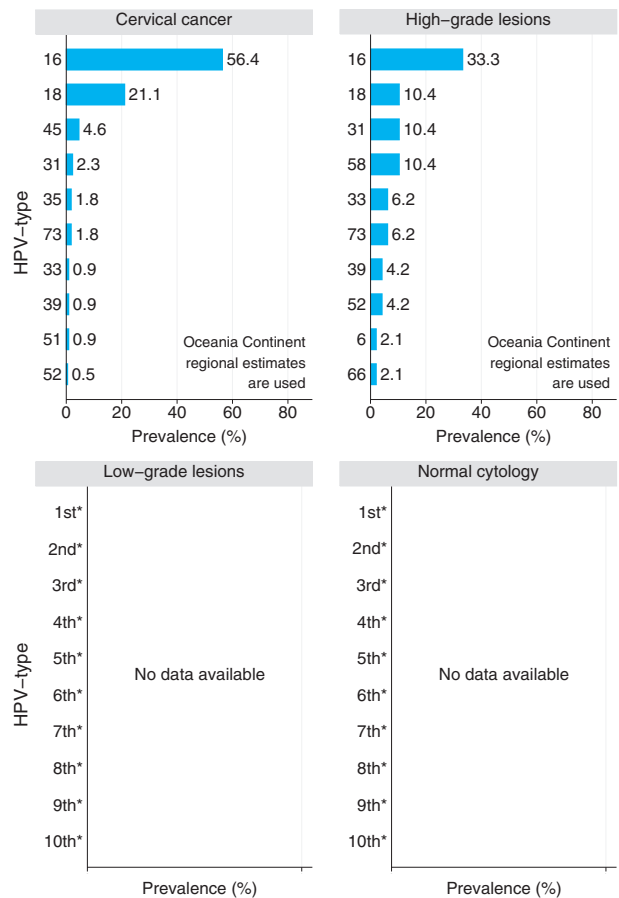
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

PANAMA



has a population of 1.12 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 375 women are diagnosed with cervical cancer and 166 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Panama, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Panama. However, in Central America, the region Panama belongs to, about 20.5% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Panama 63.0% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	25.8	11.5
Age-standardized rate	28.2	12.9
Cumulative risk 0-64 years (%)	2	0.8
SIR/SMR	175	145
Annual number of new cases/deaths	375	166
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

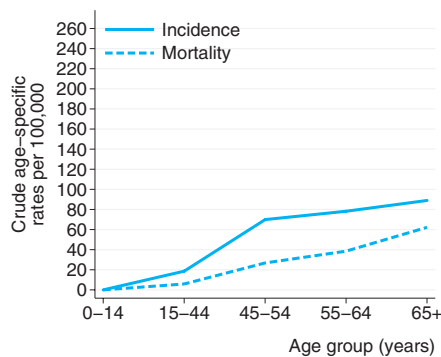


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	6.1
Fertility rate (live births per women)	2.7
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	10232	20.5 (19.7-21.3)
Low-grade lesions†	390	55.1 (50.0-60.1)
High-grade lesions†	280	86.8 (82.2-90.5)
Cervical cancer: any type	73	100* (95.1-100.0)
Cervical cancer: HPV 16/18	73	63.0 (50.9-74.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Central America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

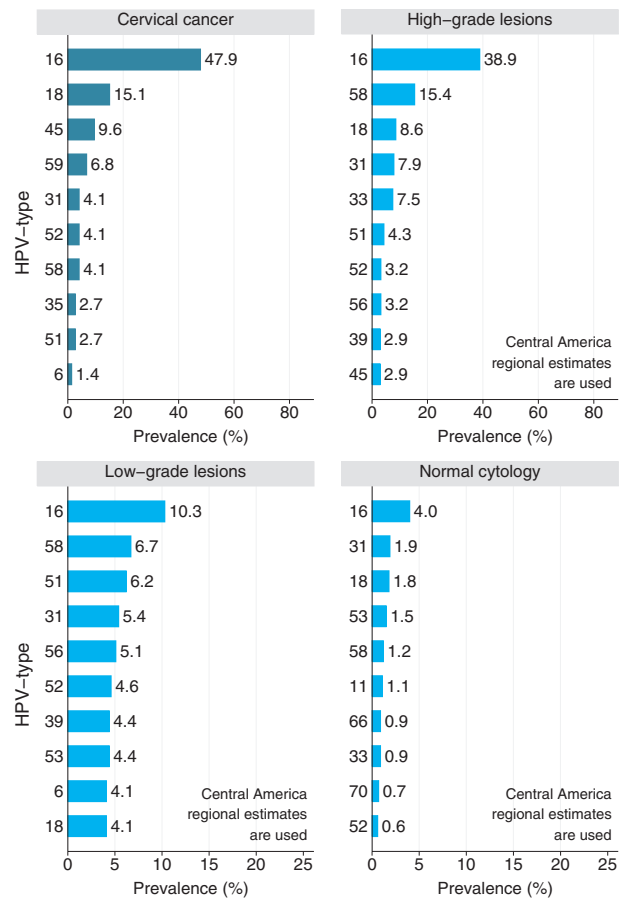


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	96

DTP: Diphtheria, Tetanus and Pertussis

PAPUA NEW GUINEA



has a population of 1.70 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 637 women are diagnosed with cervical cancer and 341 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Papua New Guinea, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Papua New Guinea, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	26.5	14.2
Age-standardized rate	40.4	22.6
Cumulative risk 0-64 years (%)	2.8	1.6
SIR/SMR	237	251
Annual number of new cases/deaths	637	341
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

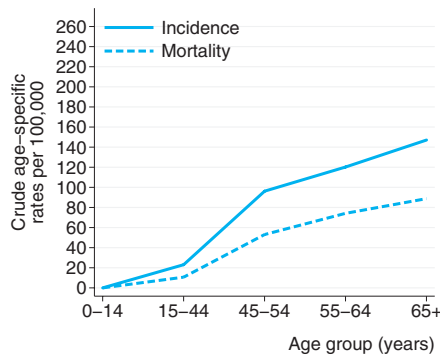


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.8
Smoking prevalence in women (%)	28
Fertility rate (live births per women)	4.8
Oral Contraceptive Use (%)	4.4

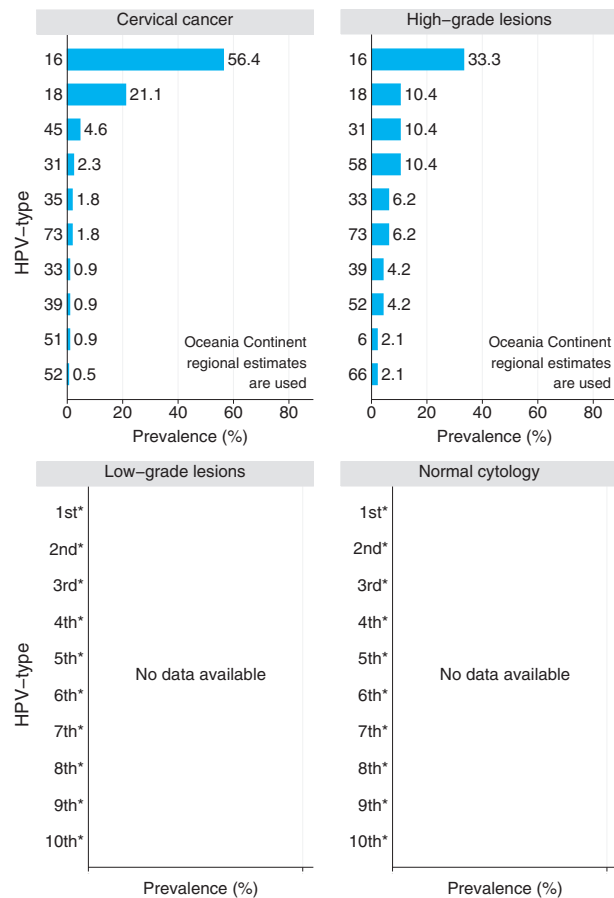
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	75
Percentage of districts with >=80% DTP3 coverage	42

DTP: Diphtheria, Tetanus and Pertussis

PARAGUAY



has a population of 1.92 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1131 women are diagnosed with cervical cancer and 513 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Paraguay, and the 1st most frequent cancer among women between 15 and 44 years of age. About 19.8% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 77.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	39.6	18
Age-standardized rate	53.2	26.1
Cumulative risk 0-64 years (%)	3.9	1.8
SIR/SMR	331	290
Annual number of new cases/deaths	1131	513
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

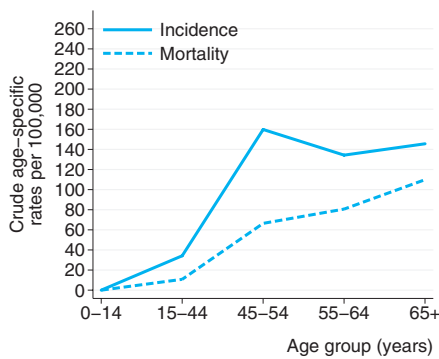


Table 2. Cervical screening coverage

49.1% in the last 12 months among women aged 15-49 years (1996)

Table 3. Factors contributing to cervical cancer

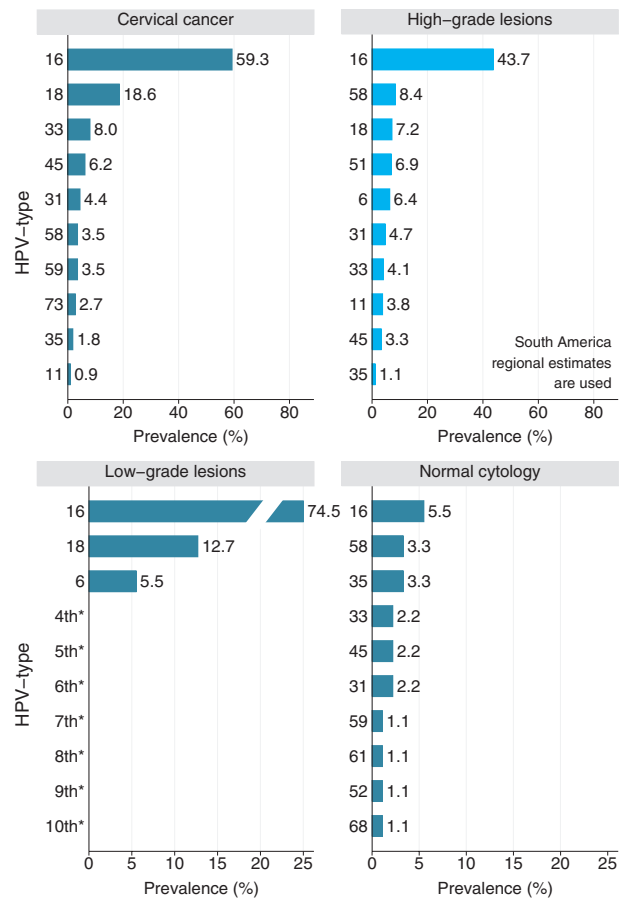
HIV rate (%) in adults (15-49 years)	0.4
Smoking prevalence in women (%)	6.8
Fertility rate (live births per women)	4.3
Oral Contraceptive Use (%)	15.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	91	19.8 (12.2-29.4)
Low-grade lesions	55	96.4 (87.5-99.6)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type	113	96.5* (91.2-99.0)
Cervical cancer: HPV 16/18	113	77.9 (69.1-85.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	73
Percentage of districts with >=80% DTP3 coverage	65

DTP: Diphtheria, Tetanus and Pertussis

PERU



has a population of 9.48 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 5400 women are diagnosed with cervical cancer and 2663 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Peru, and the 1st most frequent cancer among women between 15 and 44 years of age. About 17.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 68.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	40.4	19.9
Age-standardized rate	48.2	24.6
Cumulative risk 0-64 years (%)	3.3	1.4
SIR/SMR	292	271
Annual number of new cases/deaths	5400	2663
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

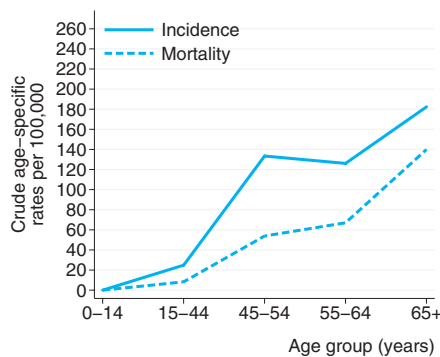


Table 2. Cervical screening coverage

42.9% in the last 12 months among women aged 15-49 years (1996); 40.3% in the last 3 years among women aged 25-59 years (2000/03)

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	17.8
Fertility rate (live births per women)	3.0
Oral Contraceptive Use (%)	6.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	175	17.7 (12.4-24.2)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type	196	94.9* (90.8-97.5)
Cervical cancer: HPV 16/18	196	68.4 (61.4-74.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

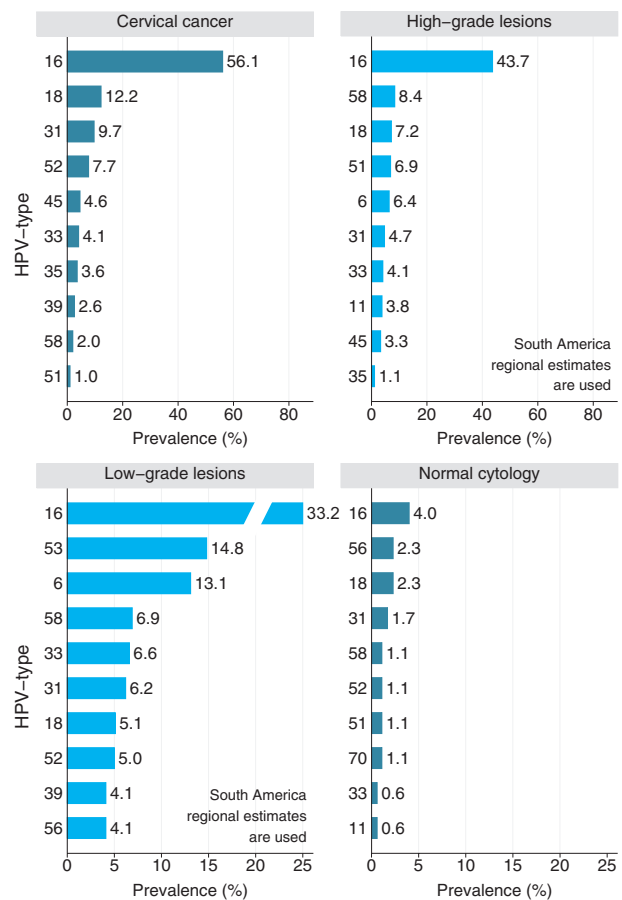


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with $\geq 80\%$ DTP3 coverage	65

DTP: Diphtheria, Tetanus and Pertussis

PHILIPPINES



has a population of 26.98 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6000 women are diagnosed with cervical cancer and 4349 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Philippines, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 9.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 64.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	15.4	11.2
Age-standardized rate	20.9	15.6
Cumulative risk 0-64 years (%)	1.5	1.1
SIR/SMR	123	171
Annual number of new cases/deaths	6000	4349
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

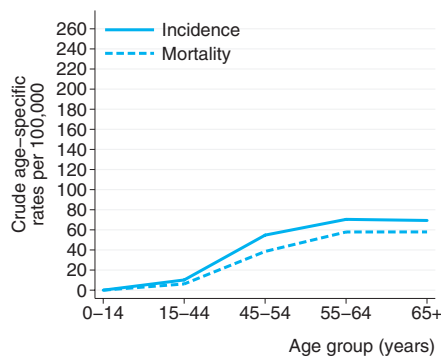


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

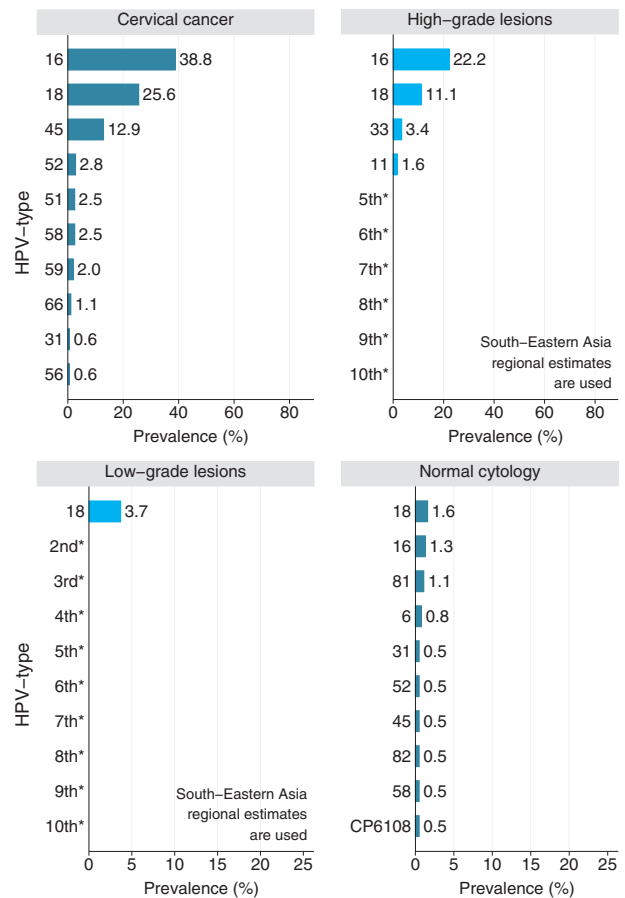
HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	7.6
Fertility rate (live births per women)	3.8
Oral Contraceptive Use (%)	13.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	377	9.3 (6.6-12.7)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type	356	93.5* (90.5-95.9)
Cervical cancer: HPV 16/18	356	64.3 (59.1-69.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



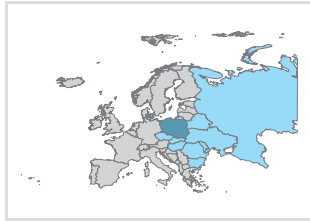
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	88
Percentage of districts with >=80% DTP3 coverage	44

DTP: Diphtheria, Tetanus and Pertussis

POLAND



has a population of 16.78 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4901 women are diagnosed with cervical cancer and 2278 die from the disease. Cervical cancer ranks as the 3rd

most frequent cancer in women in Poland, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Poland. However, in Eastern Europe, the region Poland belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Poland 61.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24.8	11.5
Age-standardized rate	18.4	7.8
Cumulative risk 0-64 years (%)	1.3	0.5
SIR/SMR	113	90
Annual number of new cases/deaths	4901	2278
Ranking of cervical cancer (all ages) †	3rd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

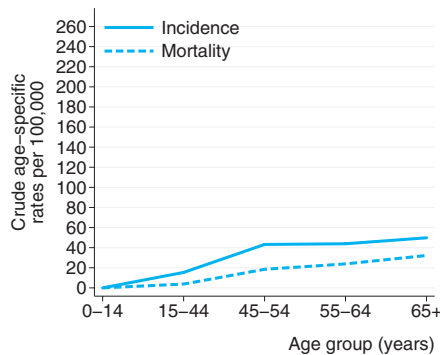


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

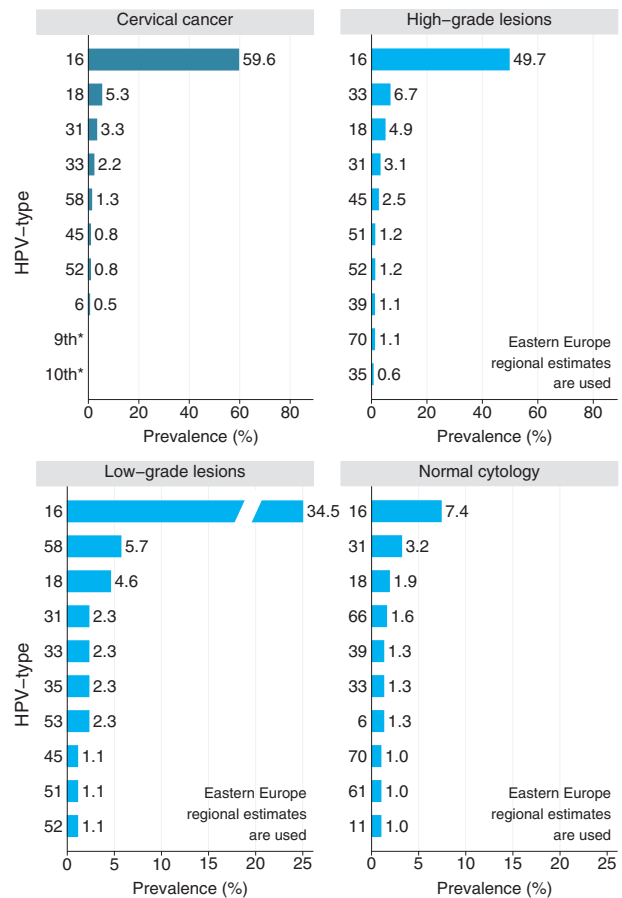
HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	25
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	2.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type	183	68.9* (61.6-75.5)
Cervical cancer: HPV 16/18	183	61.7 (54.3-68.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

PORTUGAL



has a population of 4.61 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 956 women are diagnosed with cervical cancer and 378 die from the disease. Cervical cancer ranks as the 4th most

frequent cancer in women in Portugal, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Portugal. However, in Southern Europe, the region Portugal belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Portugal 95.0% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.4	7.3
Age-standardized rate	13.5	4.5
Cumulative risk 0-64 years (%)	1	0.3
SIR/SMR	80	52
Annual number of new cases/deaths	956	378
Ranking of cervical cancer (all ages) †	4th	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

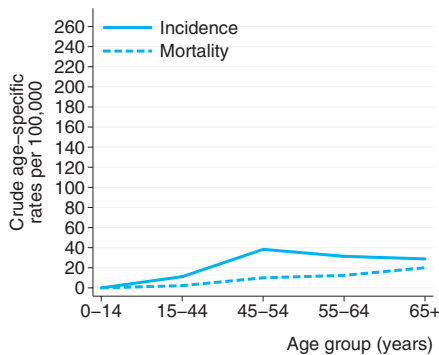


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.4
Smoking prevalence in women (%)	9.5
Fertility rate (live births per women)	1.5
Oral Contraceptive Use (%)	-

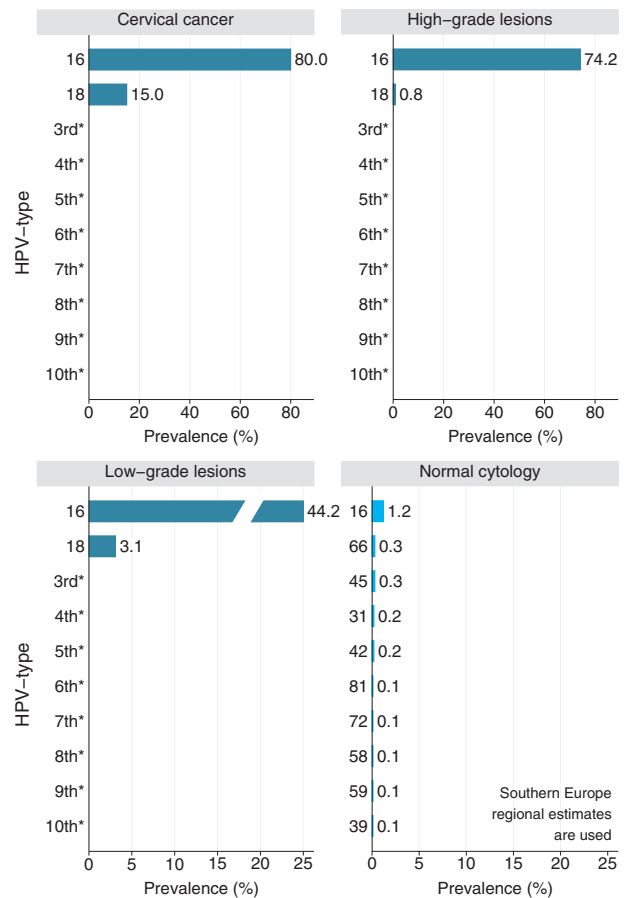
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions	416	82.9 (79.0-86.4)
High-grade lesions	132	91.7 (85.6-95.8)
Cervical cancer: any type	60	98.3* (91.1-100.0)
Cervical cancer: HPV 16/18	60	95.0 (86.1-99.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	93
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

QATAR



has a population of 178643 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 5 women are diagnosed with cervical cancer and 3 die from the disease. Cervical cancer ranks as the 12th most frequent

cancer in women in Qatar, and the 9th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Qatar. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	2.1	1
Age-standardized rate	3.9	2.2
Cumulative risk 0-64 years (%)	0.1	0.1
SIR/SMR	17	17
Annual number of new cases/deaths	5	3
Ranking of cervical cancer (all ages) †	12th	15th
Ranking of cervical cancer (15-44 years) †	9th	11th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

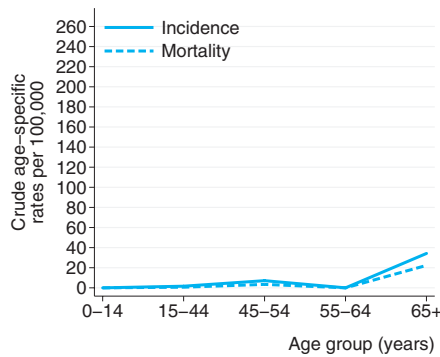


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	0.5
Fertility rate (live births per women)	4.1
Oral Contraceptive Use (%)	15.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

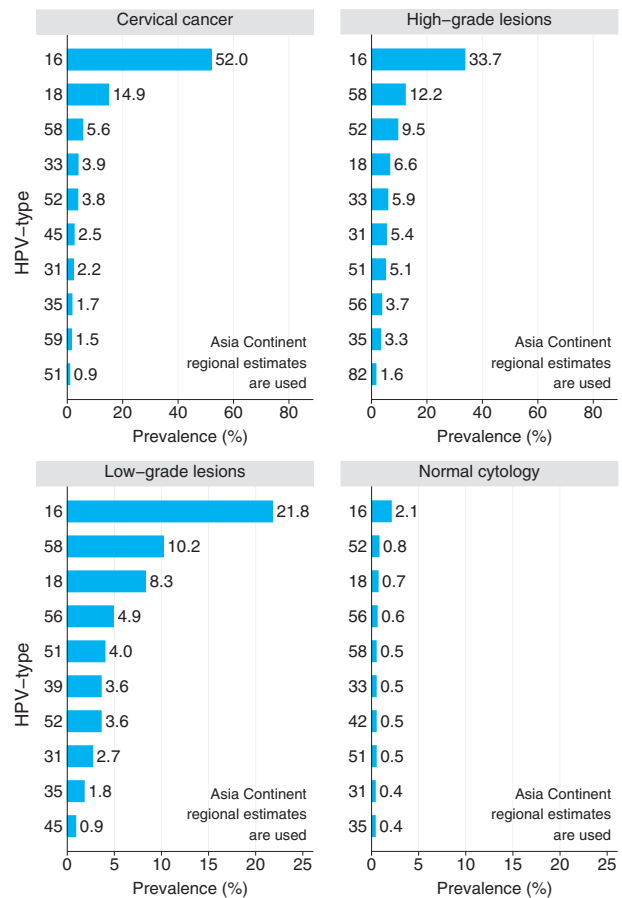


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

REPUBLIC OF KOREA



has a population of 19.62 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4949 women are diagnosed with cervical cancer and 1327 die from the disease. Cervical cancer ranks as the 3rd

most frequent cancer in women in Republic of Korea, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 21.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	21.1	5.6
Age-standardized rate	17.9	4.7
Cumulative risk 0-64 years (%)	1.3	0.3
SIR/SMR	112	54
Annual number of new cases/deaths	4949	1327
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	2nd	5th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

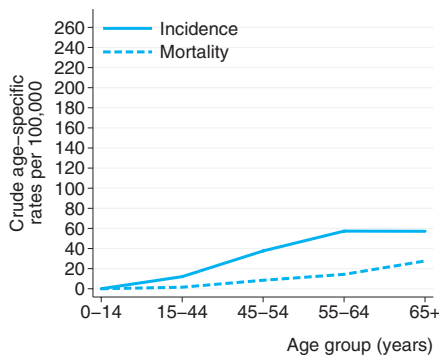


Table 2. Cervical screening coverage

33% among women aged 30 years and over (1999-2000)
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Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	4.4
Fertility rate (live births per women)	1.5
Oral Contraceptive Use (%)	1.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	3124	21.0 (19.6-22.5)
Low-grade lesions	174	73 (65.7-79.4)
High-grade lesions	378	88.4 (84.7-91.4)
Cervical cancer: any type	336	88.7* (84.8-91.9)
Cervical cancer: HPV 16/18	336	70.8 (65.7-75.6)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

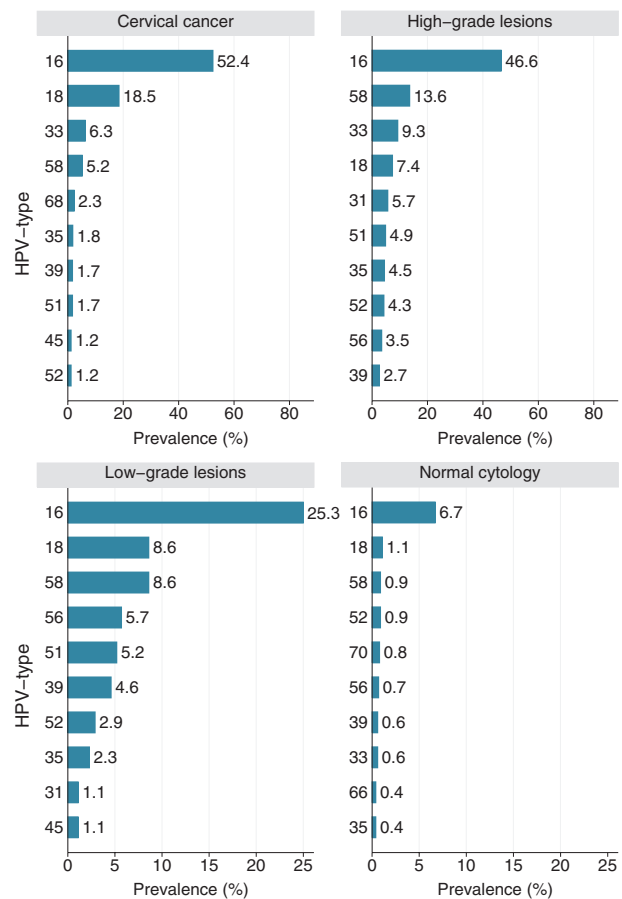


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with ≥80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

REPUBLIC OF MOLDOVA



has a population of 1.82 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 476 women are diagnosed with cervical cancer and 220 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Republic of Moldova, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Republic of Moldova. However, in Eastern Europe, the region Republic of Moldova belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	21.4	9.9
Age-standardized rate	18	7.8
Cumulative risk 0-64 years (%)	1.3	0.5
SIR/SMR	108	87
Annual number of new cases/deaths	476	220
Ranking of cervical cancer (all ages) †	3rd	3rd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

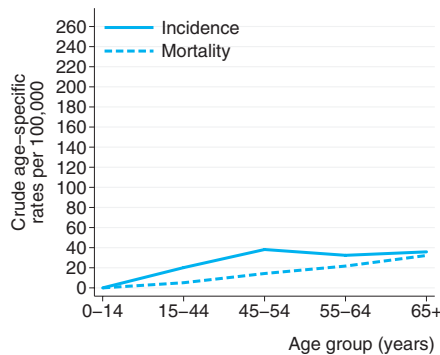


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.1
Smoking prevalence in women (%)	1.8
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	3.3

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

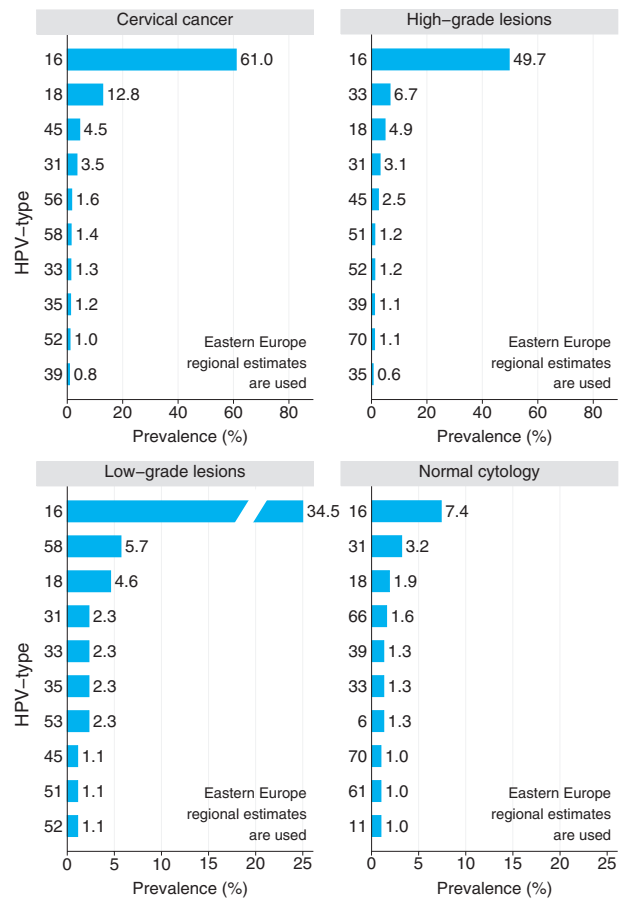


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

ROMANIA



has a population of 9.50 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 3448 women are diagnosed with cervical cancer and 2094 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Romania, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Romania. However, in Eastern Europe, the region Romania belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.3	18.4
Age-standardized rate	23.9	13
Cumulative risk 0-64 years (%)	1.8	0.9
SIR/SMR	138	141
Annual number of new cases/deaths	3448	2094
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

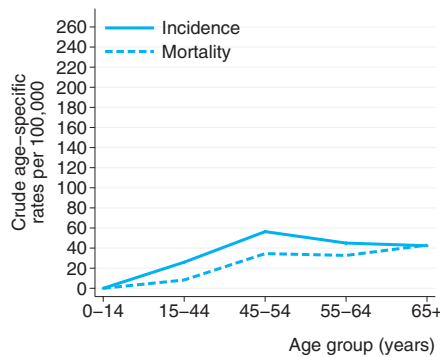


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	7.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

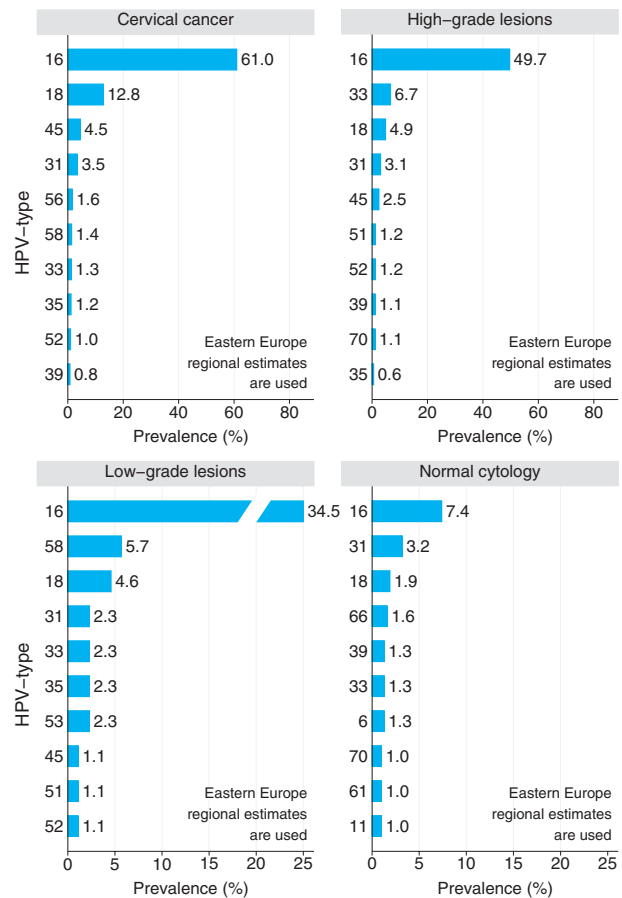


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with $\geq 80\%$ DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

RUSSIAN FEDERATION



has a population of 66.07 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 12215 women are diagnosed with cervical cancer and 7784 die from the disease. Cervical cancer ranks as the 5th

most frequent cancer in women in Russian Federation, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 73.9% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.1	10.2
Age-standardized rate	11.9	6.5
Cumulative risk 0-64 years (%)	0.9	0.4
SIR/SMR	70	76
Annual number of new cases/deaths	12215	7784
Ranking of cervical cancer (all ages) †	5th	5th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

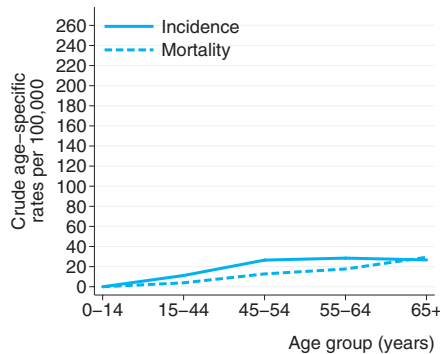


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.1
Smoking prevalence in women (%)	15.5
Fertility rate (live births per women)	1.3
Oral Contraceptive Use (%)	-

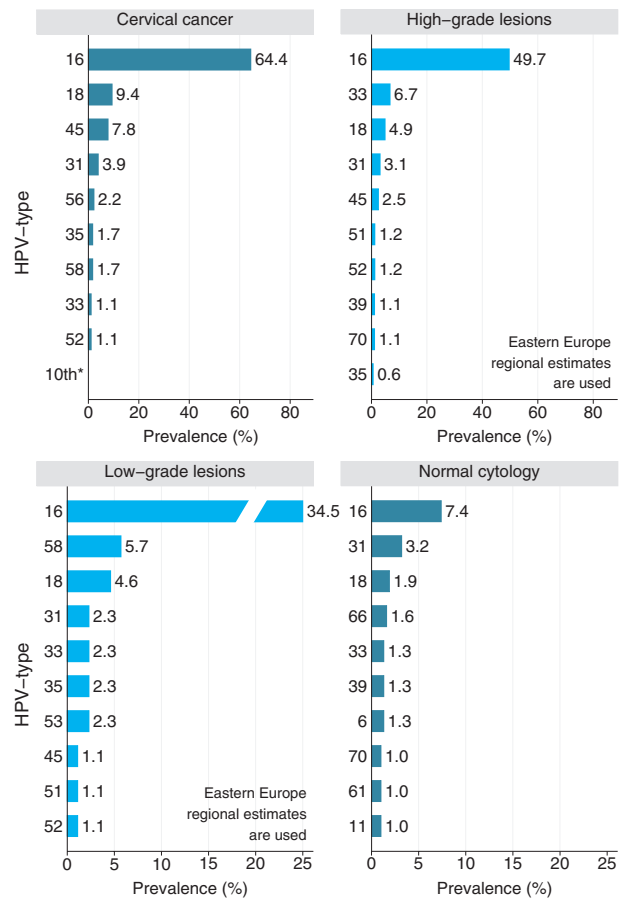
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type	180	100* (98.0-100.0)
Cervical cancer: HPV 16/18	180	73.9 (66.8-80.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with $\geq 80\%$ DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

RWANDA



has a population of 2.68 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1087 women are diagnosed with cervical cancer and 878 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Rwanda, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Rwanda. However, in Eastern Africa, the region Rwanda belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	27.1	21.9
Age-standardized rate	49.4	40.4
Cumulative risk 0-64 years (%)	4	3.2
SIR/SMR	270	429
Annual number of new cases/deaths	1087	878
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

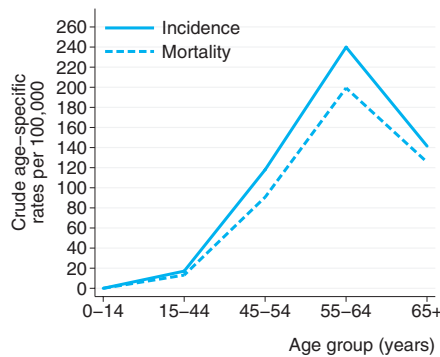


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.1
Smoking prevalence in women (%)	4
Fertility rate (live births per women)	5.9
Oral Contraceptive Use (%)	1.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

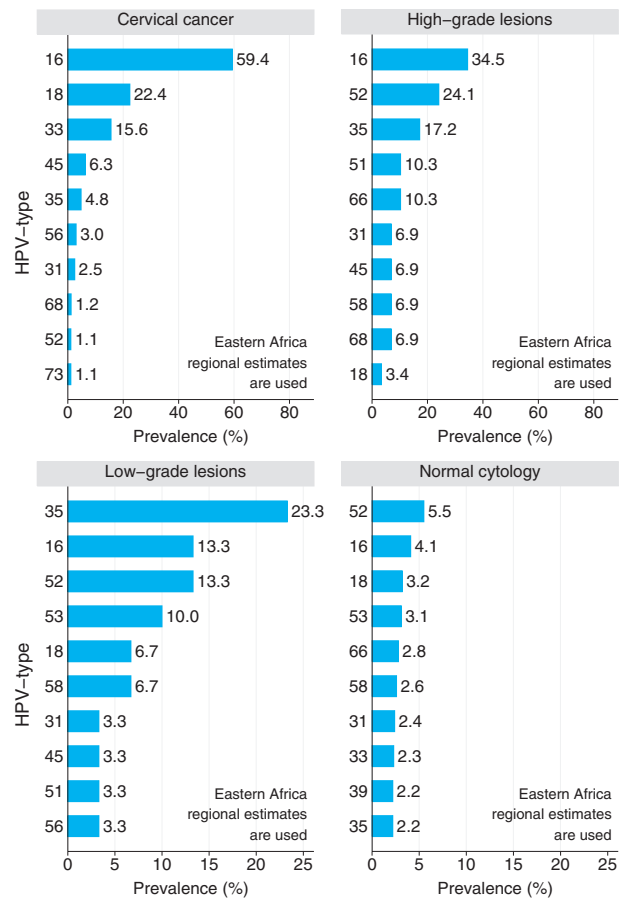


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	93

DTP: Diphtheria, Tetanus and Pertussis

SAINT KITTS & NEVIS



Data is not yet available on the burden of cervical cancer in Saint Kitts & Nevis. However, in Caribbean, the region Saint Kitts & Nevis belongs to, current estimates indicate that every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease.

Cervical cancer ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Saint Kitts & Nevis. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

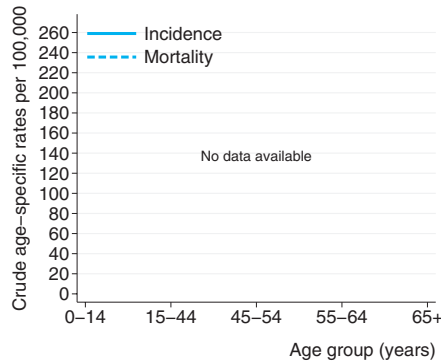


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

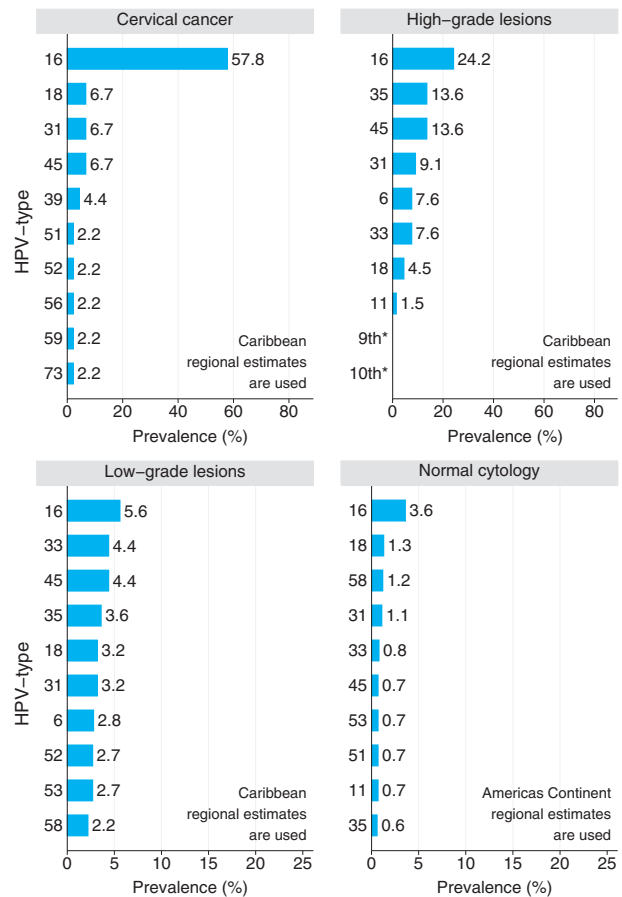
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	88

DTP: Diphtheria, Tetanus and Pertussis

SAINT LUCIA



has a population of 58835 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Saint Lucia. However, in Caribbean, the region Saint Lucia belongs to, current estimates indicate that

every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Saint Lucia. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

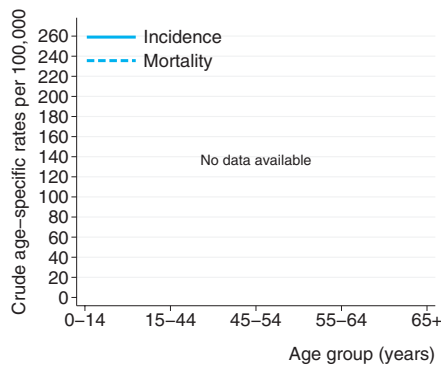


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	5.6
Fertility rate (live births per women)	2.0
Oral Contraceptive Use (%)	18.4

Table 4. Burden of HPV in women with and without cervical disease

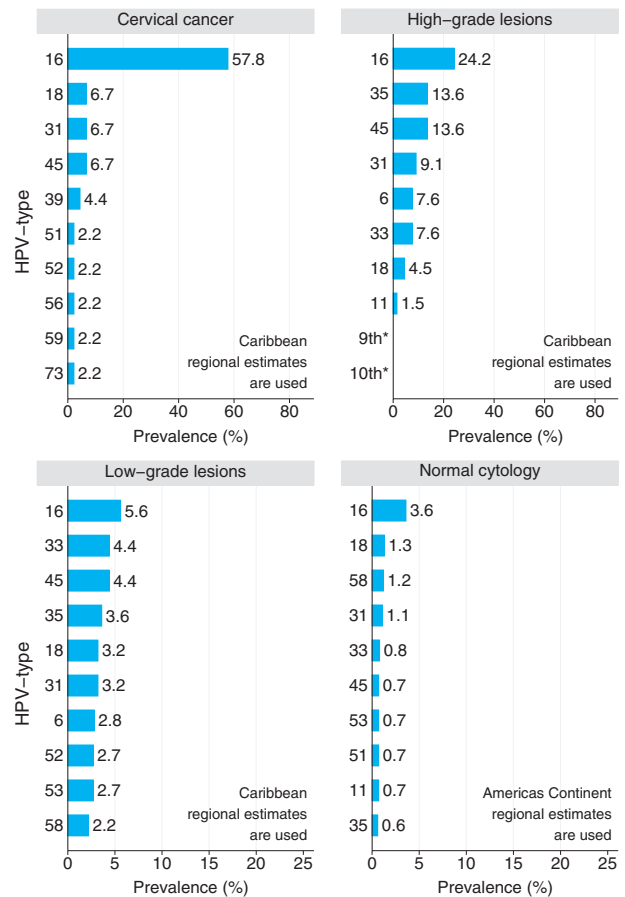
	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	40399	15.6 (15.2-15.9)
Low-grade lesions †	248	60.9 (54.5-67.0)
High-grade lesions †	66	80.3 (68.7-89.1)
Cervical cancer: any type †	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18 †	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SAINT VINCENT & THE GRENADINES



has a population of 42216 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Saint Vincent & The Grenadines. However, in Caribbean, the region Saint Vincent & The Grenadines belongs to,

current estimates indicate that every year 6369 women are diagnosed with cervical cancer and 3113 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women in Caribbean, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Saint Vincent & The Grenadines. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Caribbean about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

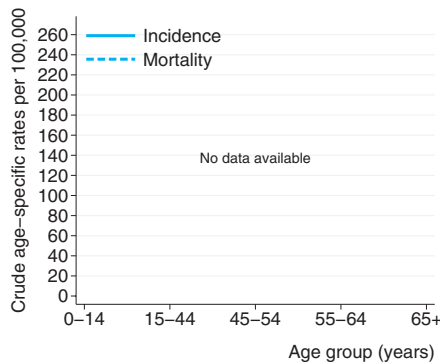


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	3.5
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	24.3

Table 4. Burden of HPV in women with and without cervical disease

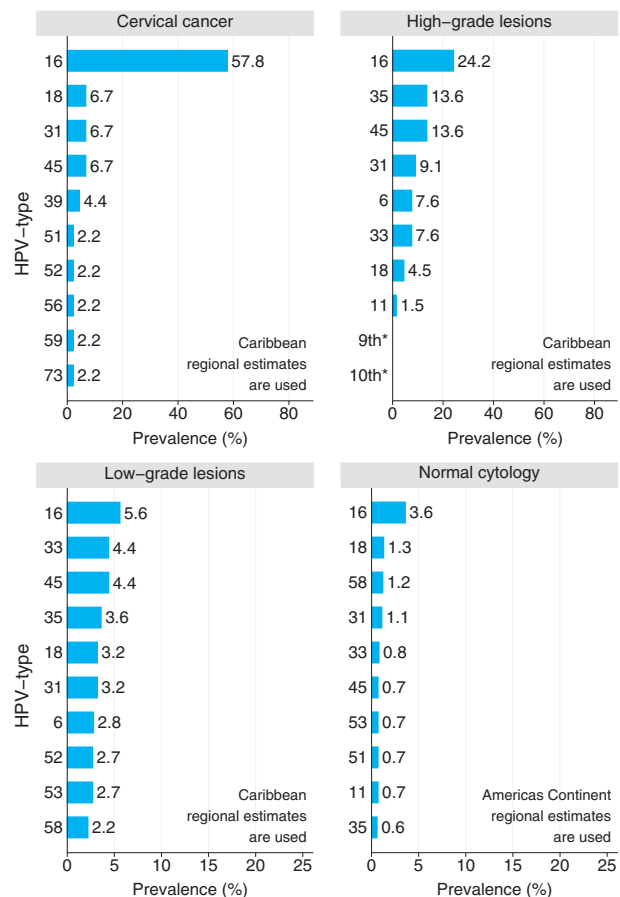
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SAMOA



has a population of 52303 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 16 women are diagnosed with cervical cancer and 8 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Samoa, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Samoa, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.3	10.6
Age-standardized rate	28	15
Cumulative risk 0-64 years (%)	2.2	1.2
SIR/SMR	174	168
Annual number of new cases/deaths	16	8
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

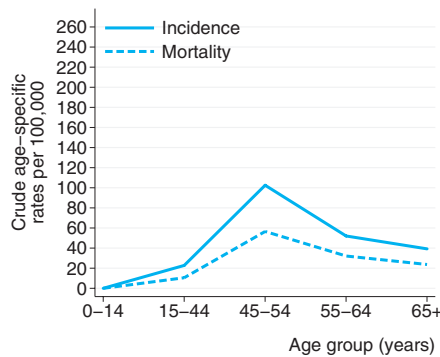


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	24
Fertility rate (live births per women)	4.9
Oral Contraceptive Use (%)	-

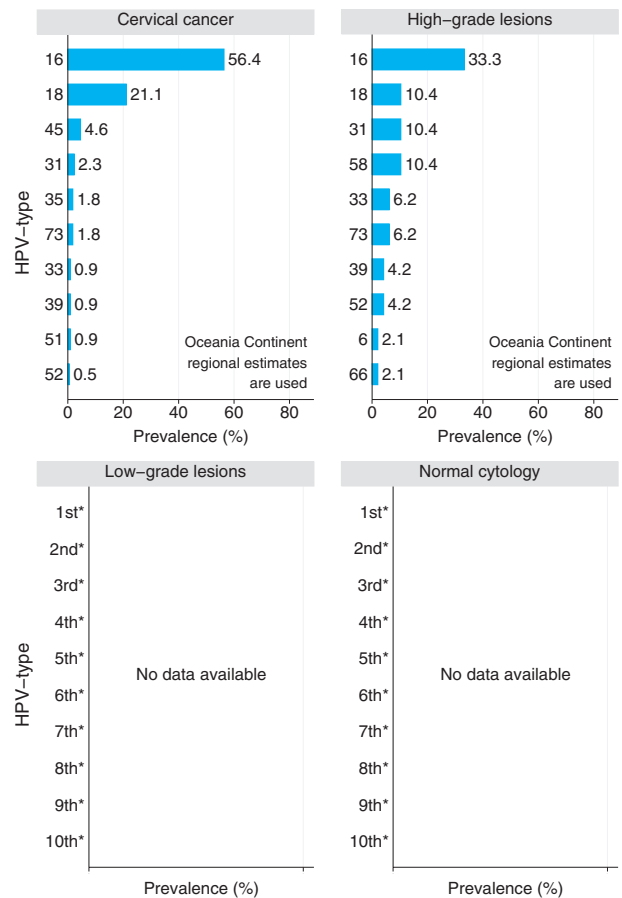
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	-	-
Low-grade lesions‡	-	-
High-grade lesions‡	48	95.8 (85.7-99.5)
Cervical cancer: any type‡	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18‡	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	56
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SAN MARINO



Data is not yet available on the burden of cervical cancer in San Marino. However, in Southern Europe, the region San Marino belongs to, current estimates indicate that every year 10641 women are diagnosed with cervical cancer and 4131 die from the disease. Cer-

vical cancer ranks as the 7th most frequent cancer in women in Southern Europe, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of San Marino. However, in Southern Europe about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

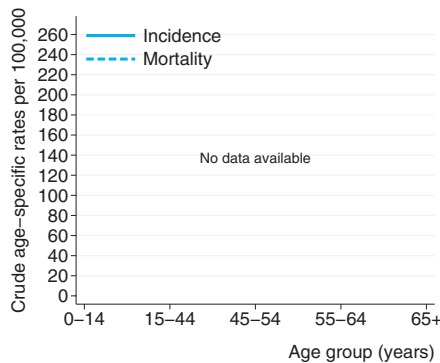


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	17
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

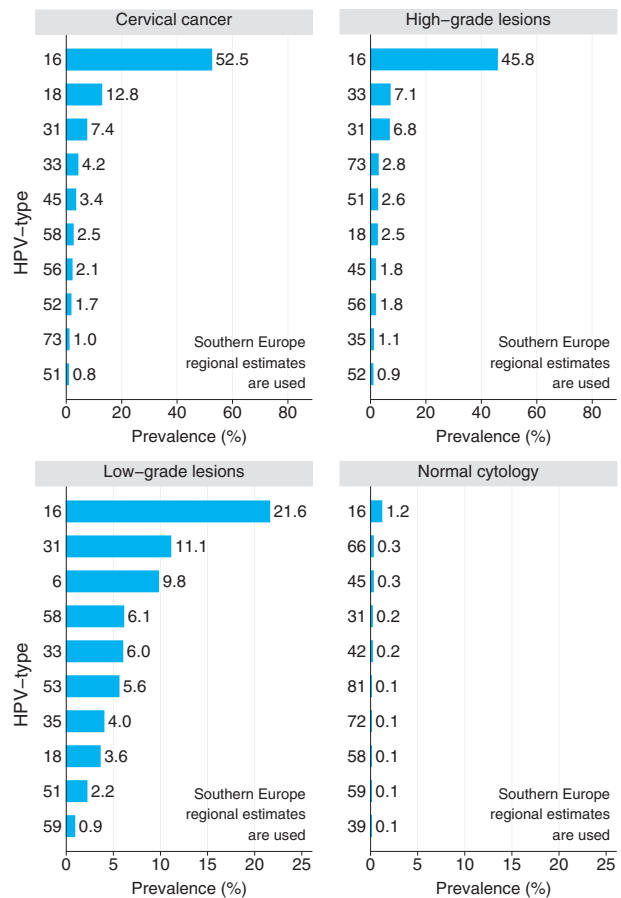
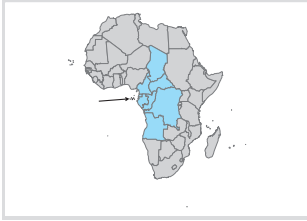


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SAO TOME & PRINCIPE



has a population of 48303 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Sao Tome & Principe. However, in Middle Africa, the region Sao Tome & Principe belongs to, current

estimates indicate that every year 8201 women are diagnosed with cervical cancer and 6687 die from the disease. Cervical cancer ranks as the 1st most frequent cancer in women in Middle Africa, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Sao Tome & Principe. However, in Africa Continent about 23.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

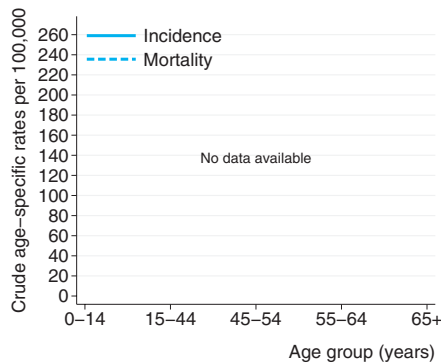


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	16.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	6226	23.0 (21.9-24.0)
Low-grade lesions †	301	59.1 (53.3-64.7)
High-grade lesions †	296	85.1 (80.6-89.0)
Cervical cancer: any type †	1339	93.9* (92.5-95.1)
Cervical cancer: HPV 16/18 †	1339	70.1 (67.5-72.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

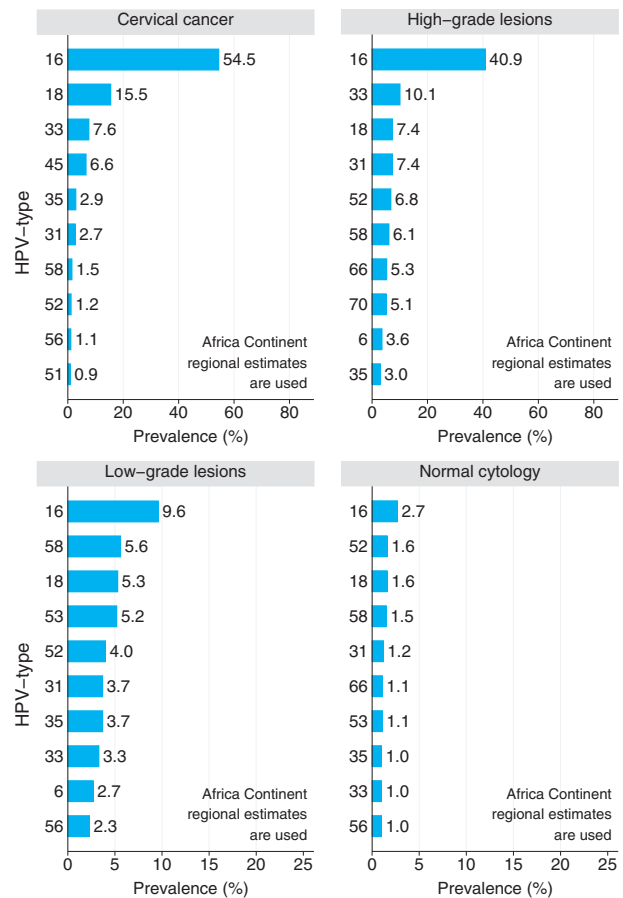


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SAUDI ARABIA



has a population of 6.82 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 271 women are diagnosed with cervical cancer and 143 die from the disease. Cervical cancer ranks as the 7th most

frequent cancer in women in Saudi Arabia, and the 8th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Saudi Arabia. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	2.7	1.4
Age-standardized rate	4.6	2.5
Cumulative risk 0-64 years (%)	0.3	0.2
SIR/SMR	25	26
Annual number of new cases/deaths	271	143
Ranking of cervical cancer (all ages) †	7th	10th
Ranking of cervical cancer (15-44 years) †	8th	8th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

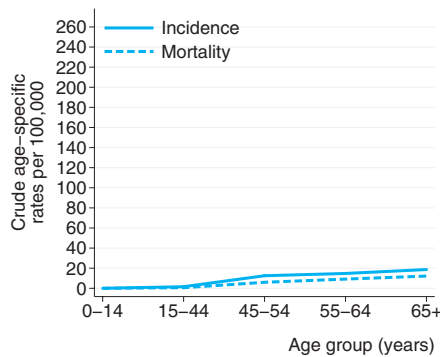


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	8.3
Fertility rate (live births per women)	6.1
Oral Contraceptive Use (%)	19.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

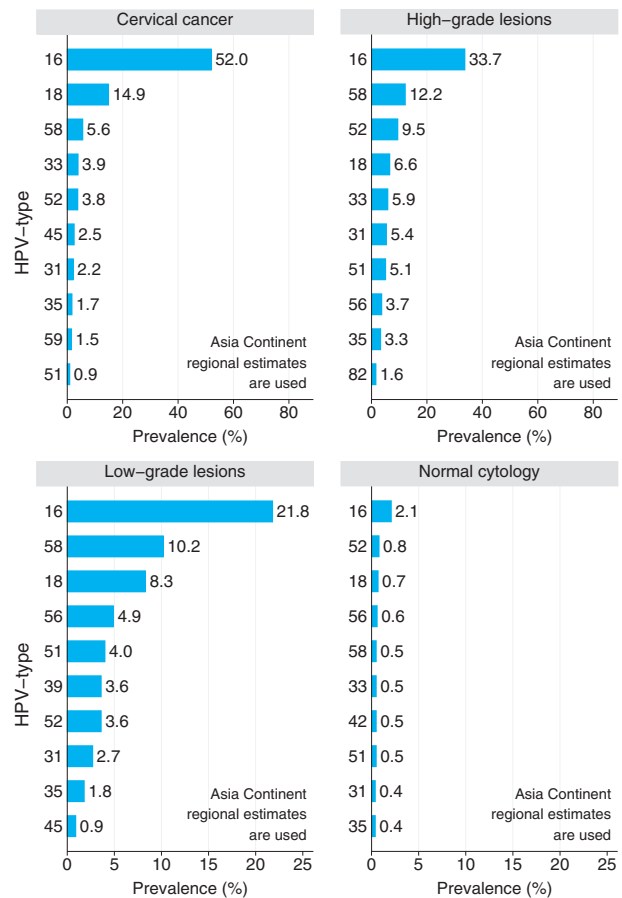
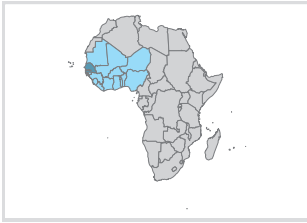


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SENEGAL



has a population of 3.47 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 804 women are diagnosed with cervical cancer and 640 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Senegal, and the 1st most frequent cancer among women between 15 and 44 years of age. About 12.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 43.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.2	12.9
Age-standardized rate	26.2	21.1
Cumulative risk 0-64 years (%)	2	1.6
SIR/SMR	153	240
Annual number of new cases/deaths	804	640
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

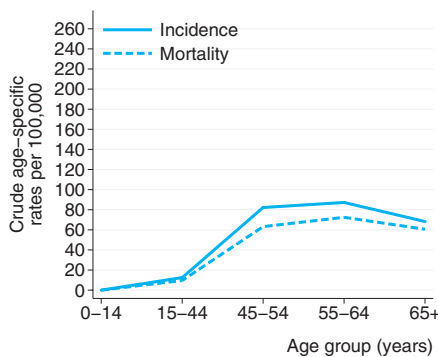


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.8
Oral Contraceptive Use (%)	3.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1797	12.6 (11.1-14.3)
Low-grade lesions	86	51.2 (40.1-62.1)
High-grade lesions	89	80.9 (71.2-88.5)
Cervical cancer: any type	71	67.6* (55.5-78.2)
Cervical cancer: HPV 16/18	71	43.7 (31.9-56.0)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

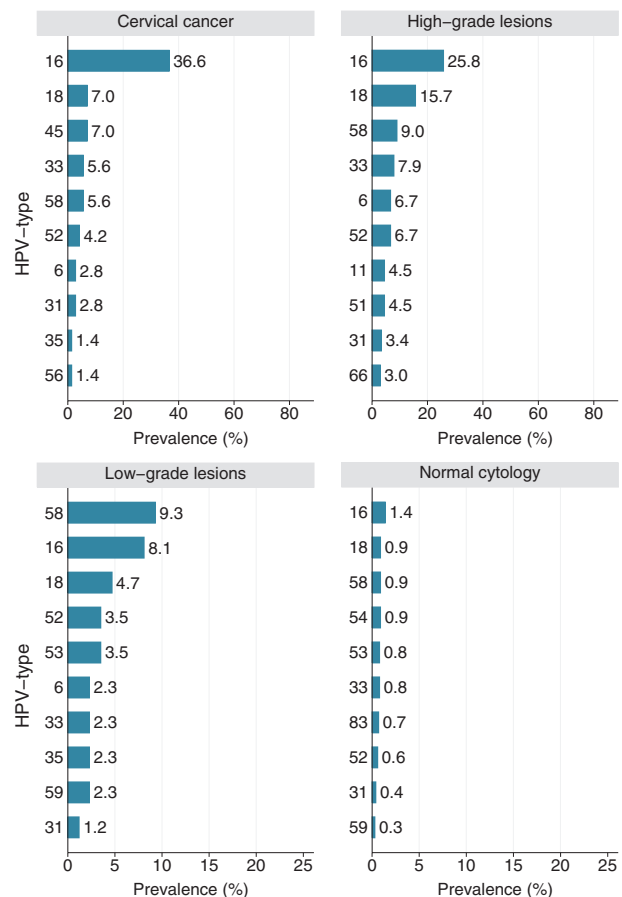


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	89
Percentage of districts with $\geq 80\%$ DTP3 coverage	79

DTP: Diphtheria, Tetanus and Pertussis

SERBIA



has a population of 4.35 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1816 women are diagnosed with cervical cancer and 815 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Serbia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Serbia. However, in Southern Europe, the region Serbia belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	34.4	15.5
Age-standardized rate	27.3	10.1
Cumulative risk 0-64 years (%)	2	0.6
SIR/SMR	157	119
Annual number of new cases/deaths	1816	815
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

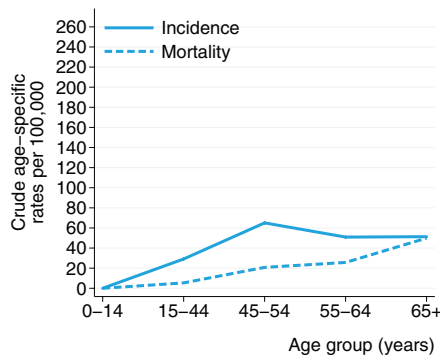


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	4.7

Estimates for the population, Tables 1 and 3 and Figure 1 are aggregated for Serbia and Montenegro.

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

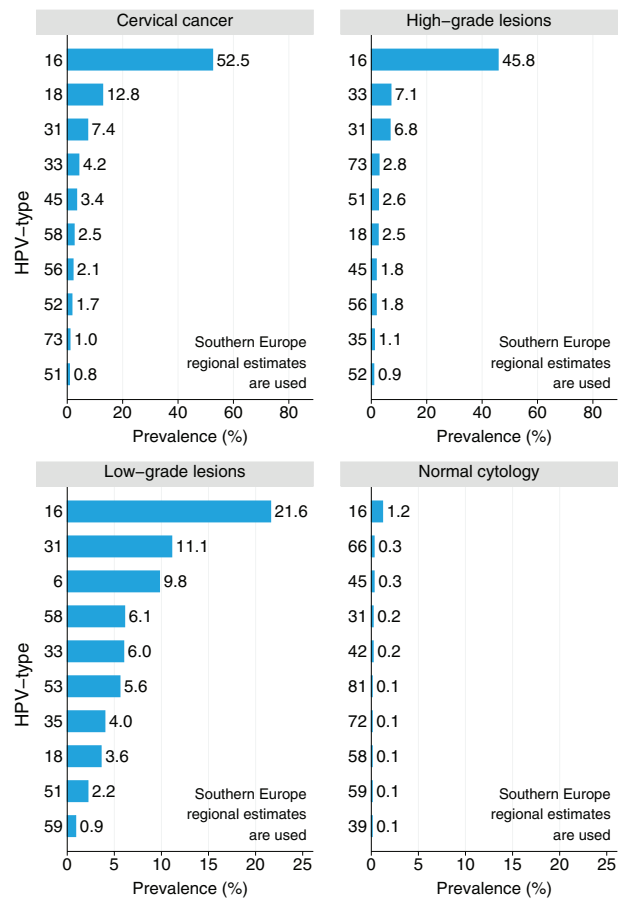


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SEYCHELLES



Data is not yet available on the burden of cervical cancer in Seychelles. However, in Eastern Africa, the region Seychelles belongs to, current estimates indicate that every year 33903 women are diagnosed with cervical cancer and 27147 die from the disease. Cervical

cancer ranks as the 1st most frequent cancer in women in Eastern Africa, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Seychelles. However, in Eastern Africa about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

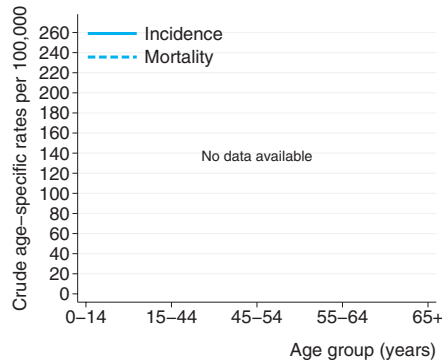


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	6.9
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

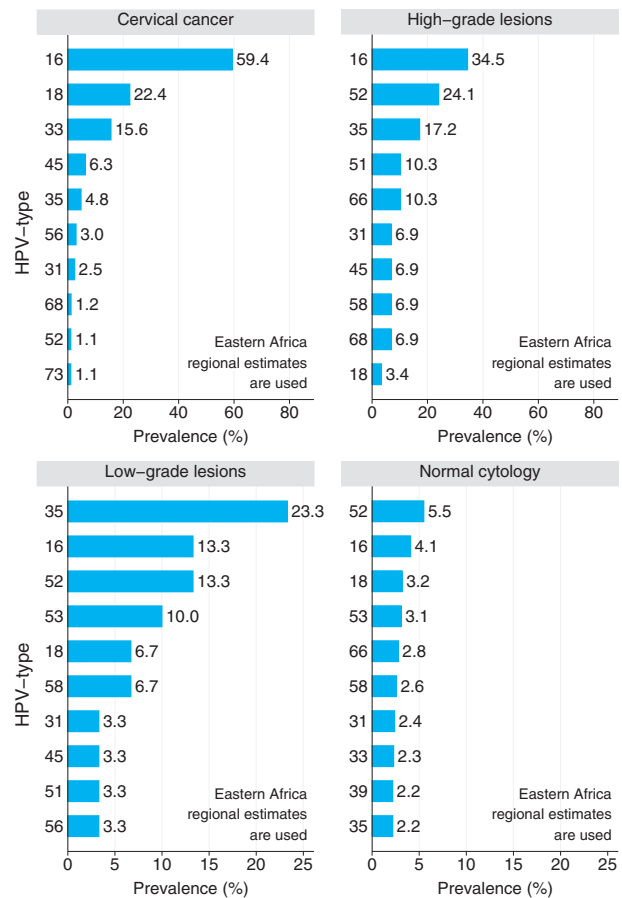


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SIERRA LEONE



has a population of 1.62 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 452 women are diagnosed with cervical cancer and 362 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Sierra Leone, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Sierra Leone. However, in Western Africa, the region Sierra Leone belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.4	14.8
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	171	265
Annual number of new cases/deaths	452	362
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
*No data available, calculated from the average of neighbouring countries.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

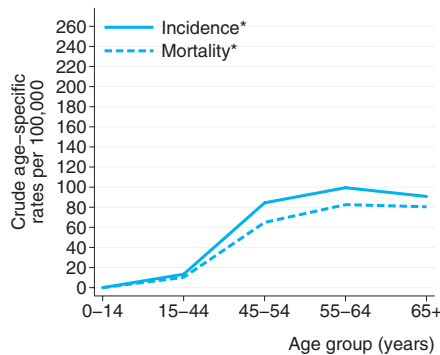


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.6
Smoking prevalence in women (%)	7.4
Fertility rate (live births per women)	6.3
Oral Contraceptive Use (%)	2.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

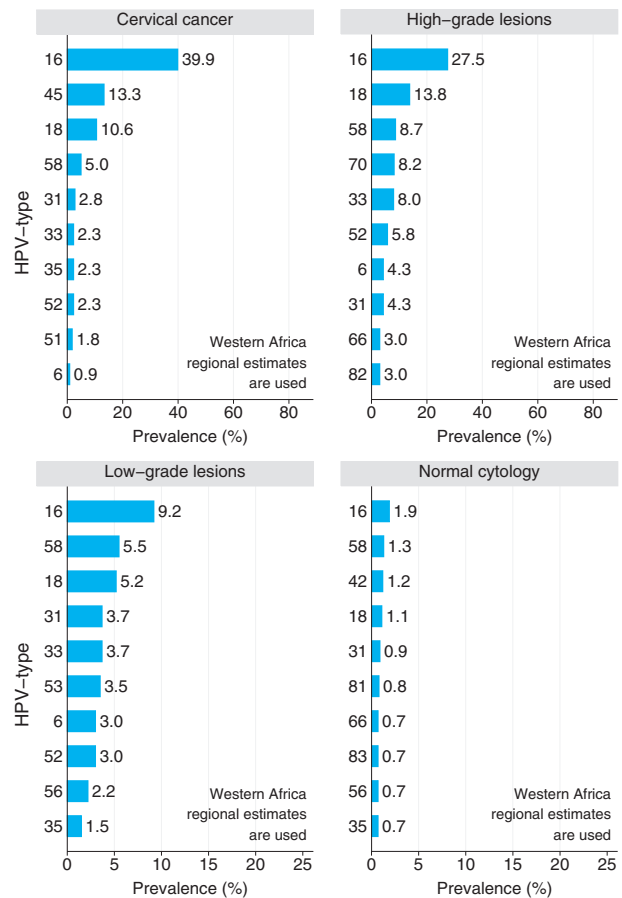


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	64
Percentage of districts with >=80% DTP3 coverage	50

DTP: Diphtheria, Tetanus and Pertussis

SINGAPORE



has a population of 1.74 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 323 women are diagnosed with cervical cancer and 205 die from the disease. Cervical cancer ranks as the 4th most

frequent cancer in women in Singapore, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Singapore. However, in South-Eastern Asia, the region Singapore belongs to, about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	15.7	9.9
Age-standardized rate	13.2	8.4
Cumulative risk 0-64 years (%)	0.9	0.6
SIR/SMR	81	92
Annual number of new cases/deaths	323	205
Ranking of cervical cancer (all ages) †	4th	5th
Ranking of cervical cancer (15-44 years) †	3rd	4th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

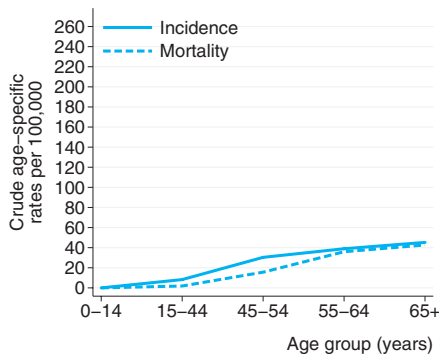


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.3
Smoking prevalence in women (%)	3.5
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	10.0

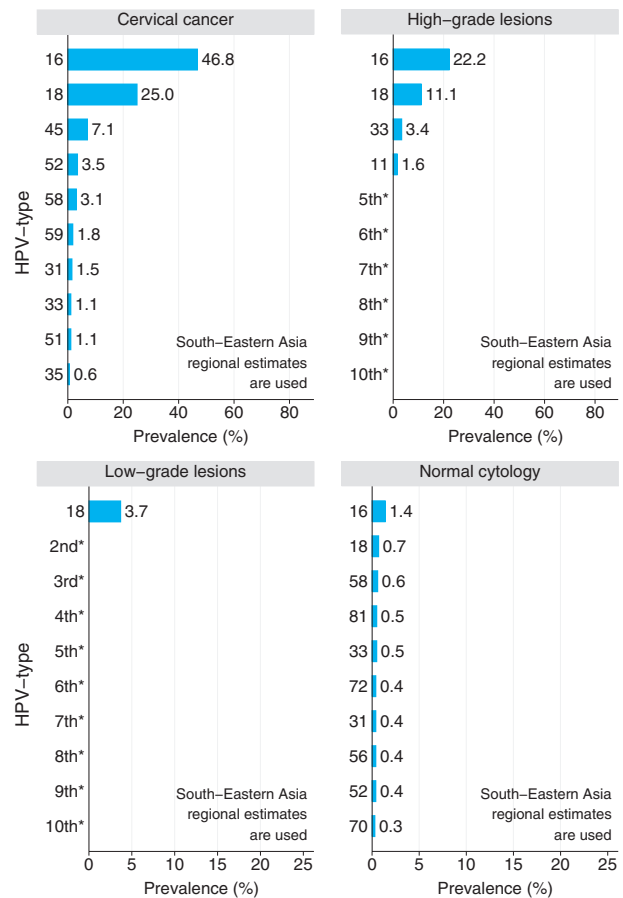
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SLOVAKIA



has a population of 2.34 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 654 women are diagnosed with cervical cancer and 242 die from the disease. Cervical cancer ranks as the 4th most

frequent cancer in women in Slovakia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Slovakia. However, in Eastern Europe, the region Slovakia belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	23.6	8.7
Age-standardized rate	18.5	6.1
Cumulative risk 0-64 years (%)	1.4	0.4
SIR/SMR	110	70
Annual number of new cases/deaths	654	242
Ranking of cervical cancer (all ages) †	4th	7th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

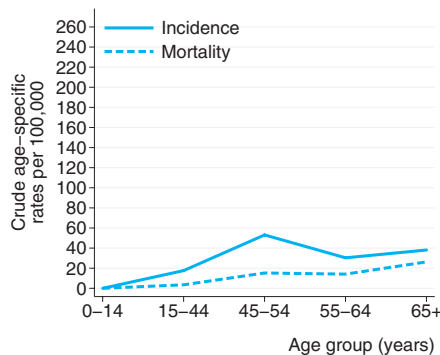


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	14.7
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	5.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

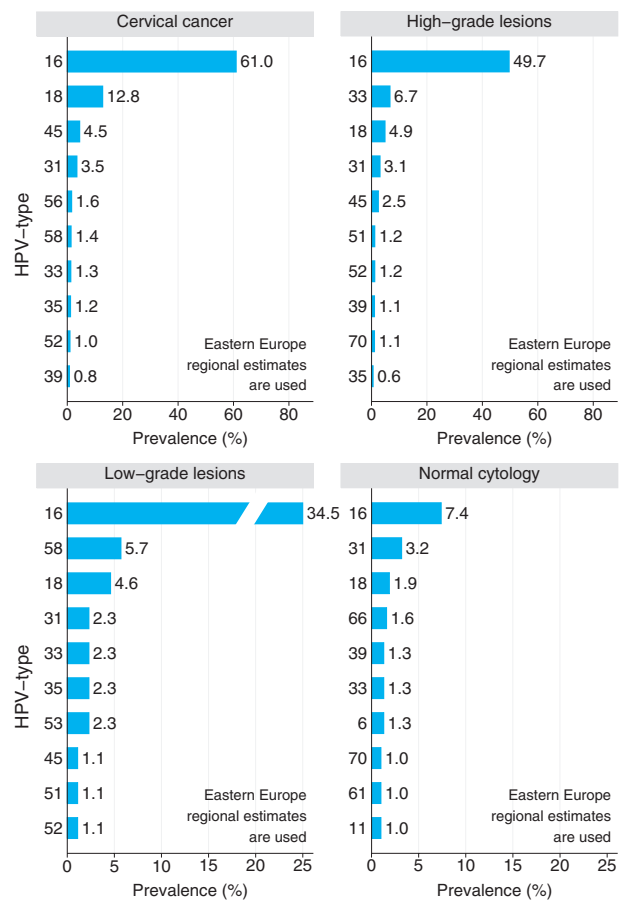


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SLOVENIA



has a population of 872721 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 207 women are diagnosed with cervical cancer and 79 die from the disease. Cervical cancer ranks as the 5th most frequent

cancer in women in Slovenia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Slovenia. However, in Southern Europe, the region Slovenia belongs to, about 5.7% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 65.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	20.3	7.7
Age-standardized rate	16.1	4.7
Cumulative risk 0-64 years (%)	1.2	0.3
SIR/SMR	87	55
Annual number of new cases/deaths	207	79
Ranking of cervical cancer (all ages) †	5th	7th
Ranking of cervical cancer (15-44 years) †	2nd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

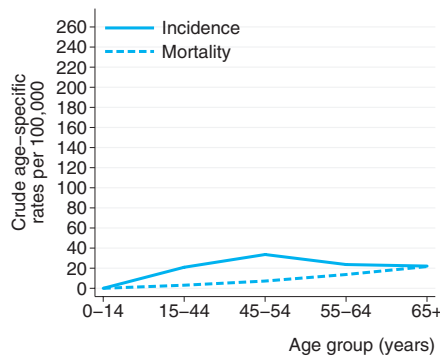


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	20.1
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	21.7

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4884	5.7 (5.0-6.3)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions†	650	81.1 (77.9-84.0)
Cervical cancer: any type†	732	83.7* (80.9-86.3)
Cervical cancer: HPV 16/18†	732	65.3 (61.7-68.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

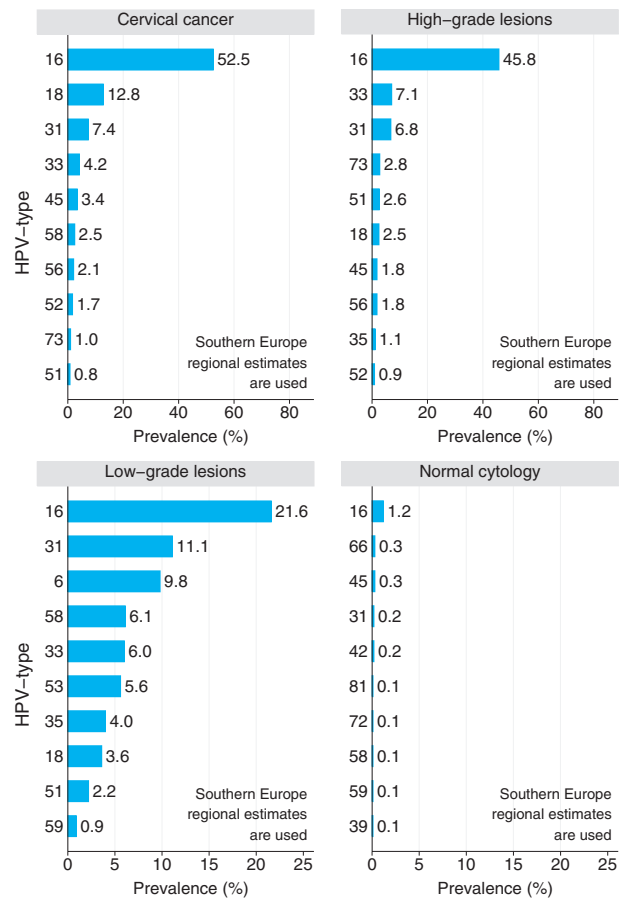


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SOLOMON ISLANDS



has a population of 137930 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 58 women are diagnosed with cervical cancer and 31 die from the disease. Cervical cancer ranks as the 1st most frequent

cancer in women in Solomon Islands, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Solomon Islands, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	25.2	13.5
Age-standardized rate	42.8	23.9
Cumulative risk 0-64 years (%)	3.1	1.7
SIR/SMR	251	267
Annual number of new cases/deaths	58	31
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

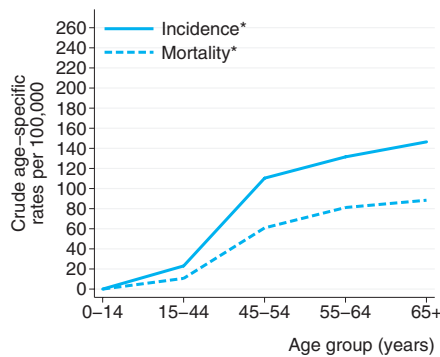


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	23
Fertility rate (live births per women)	6.1
Oral Contraceptive Use (%)	-

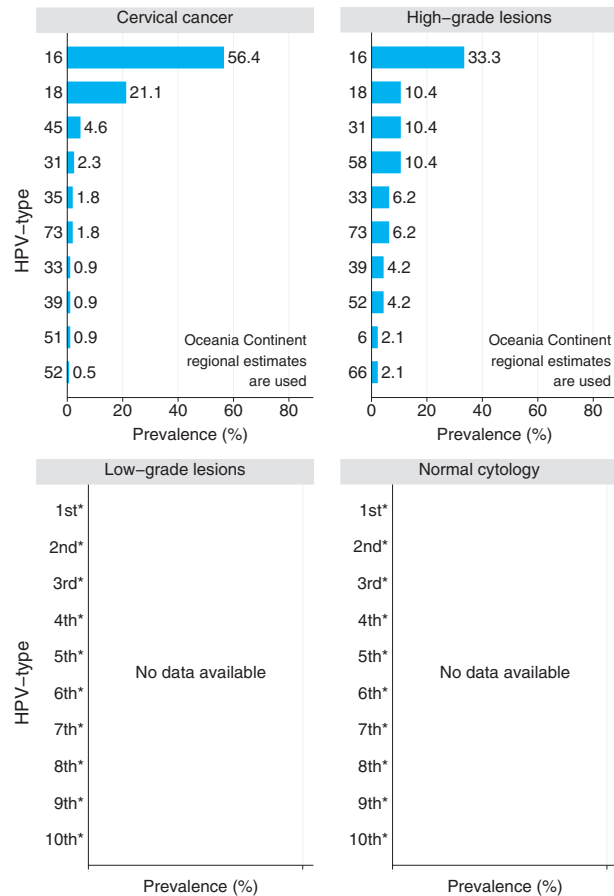
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	-	--
Low-grade lesions‡	-	--
High-grade lesions‡	48	95.8 (85.7-99.5)
Cervical cancer: any type‡	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18‡	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	91
Percentage of districts with >=80% DTP3 coverage	23

DTP: Diphtheria, Tetanus and Pertussis

SOMALIA



has a population of 2.34 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1134 women are diagnosed with cervical cancer and 906 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Somalia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Somalia. However, in Eastern Africa, the region Somalia belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	23.6	18.9
Age-standardized rate	42.7	34.6
Cumulative risk 0-64 years (%)	3.2	2.6
SIR/SMR	248	392
Annual number of new cases/deaths	1134	906
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

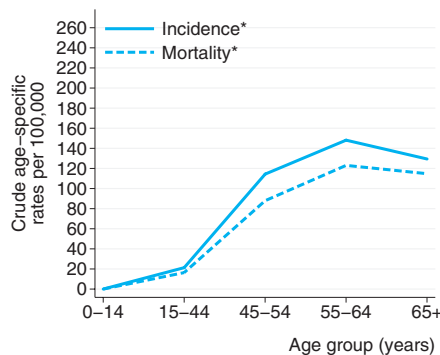


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.9
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

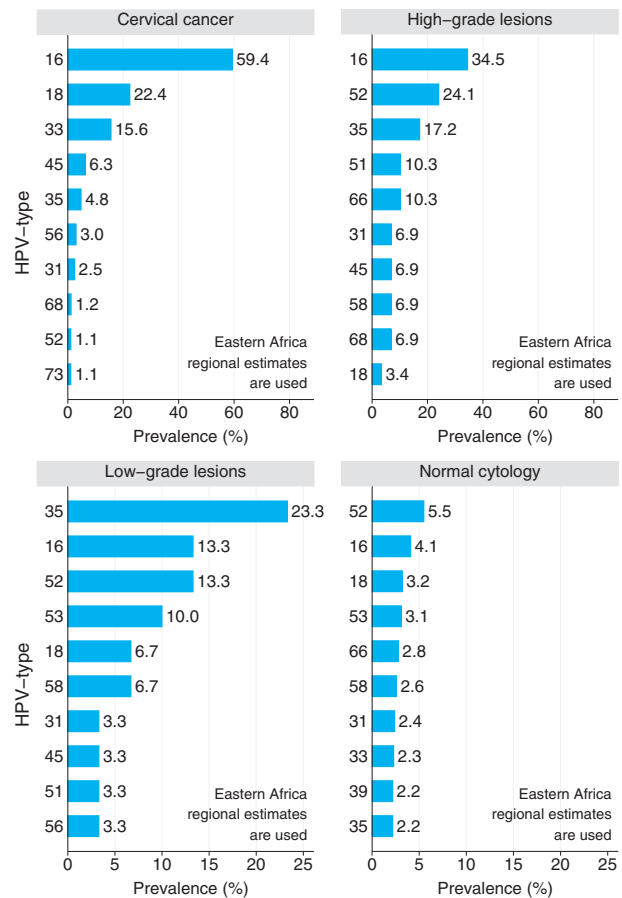


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	35
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SOUTH AFRICA



has a population of 16.48 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6742 women are diagnosed with cervical cancer and 3681 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in South Africa, and the 1st most frequent cancer among women between 15 and 44 years of age. About 15.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.2	16.5
Age-standardized rate	37.5	21
Cumulative risk 0-64 years (%)	2.8	1.6
SIR/SMR	226	234
Annual number of new cases/deaths	6742	3681
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

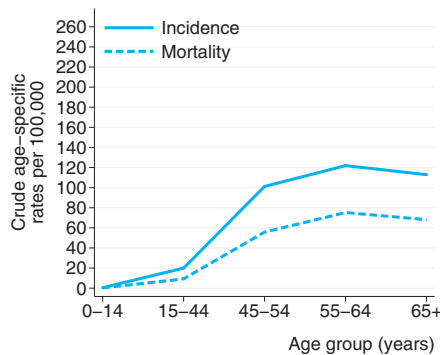


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	18.8
Smoking prevalence in women (%)	7.7
Fertility rate (live births per women)	2.9
Oral Contraceptive Use (%)	10.6

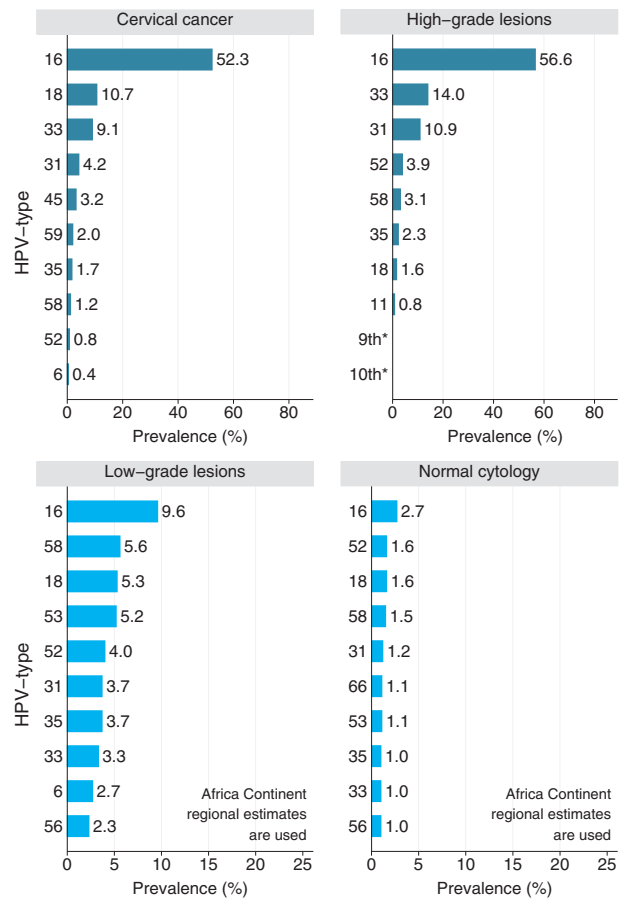
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1269	15.5 (13.6-17.6)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions	129	88.4 (81.5-93.3)
Cervical cancer: any type	308	93.8* (90.5-96.2)
Cervical cancer: HPV 16/18	308	63.0 (57.3-68.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with $\geq 80\%$ DTP3 coverage	96

DTP: Diphtheria, Tetanus and Pertussis

SPAIN



has a population of 18.91 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2103 women are diagnosed with cervical cancer and 739 die from the disease. Cervical cancer ranks as the 7th

most frequent cancer in women in Spain, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 2.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 55.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.3	3.6
Age-standardized rate	7.6	2.2
Cumulative risk 0-64 years (%)	0.6	0.1
SIR/SMR	45	26
Annual number of new cases/deaths	2103	739
Ranking of cervical cancer (all ages) †	7th	13th
Ranking of cervical cancer (15-44 years) †	2nd	6th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

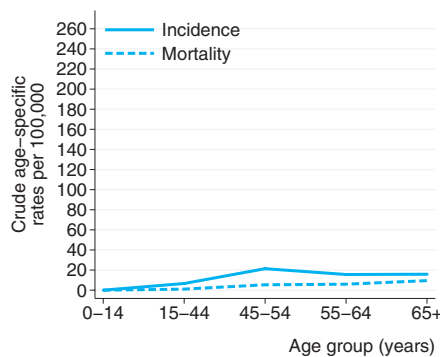


Table 2. Cervical screening coverage

44% had one or more tests in the last 3 years (2002)

Table 3. Factors contributing to cervical cancer

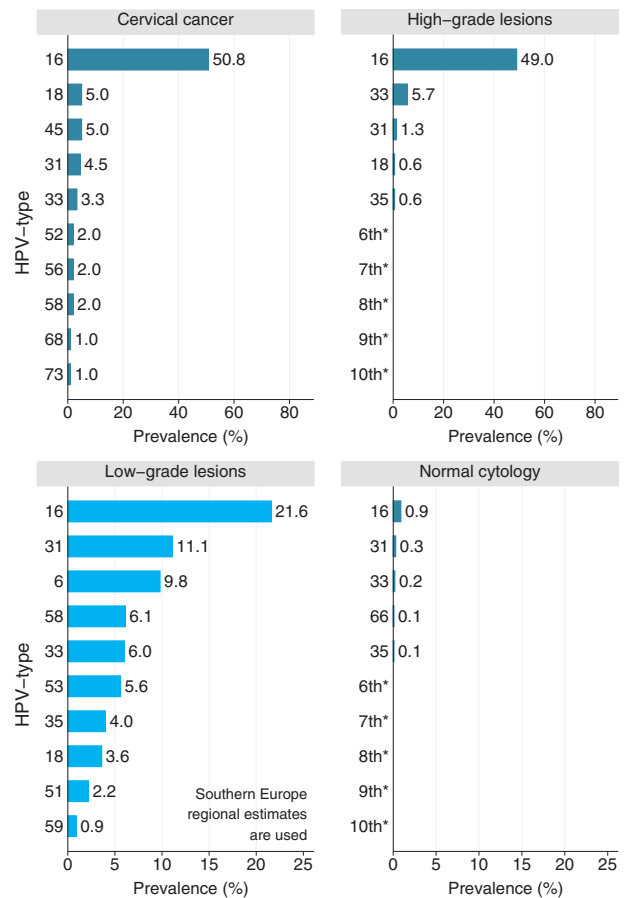
HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	24.6
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	14.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1176	2.4 (1.6-3.4)
Low-grade lesions†	3391	66.6 (64.9-68.1)
High-grade lesions	157	70.7 (62.9-77.7)
Cervical cancer: any type	242	77.7* (71.9-82.8)
Cervical cancer: HPV 16/18	242	55.8 (49.3-62.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Southern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	95

DTP: Diphtheria, Tetanus and Pertussis

SRILANKA



has a population of 7.74 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1544 women are diagnosed with cervical cancer and 840 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Sri Lanka, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Sri Lanka. However, in Southern Asia, the region Sri Lanka belongs to, about 6.6% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 75.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	16.4	8.9
Age-standardized rate	17.2	9.5
Cumulative risk 0-64 years (%)	1.3	0.7
SIR/SMR	103	103
Annual number of new cases/deaths	1544	840
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

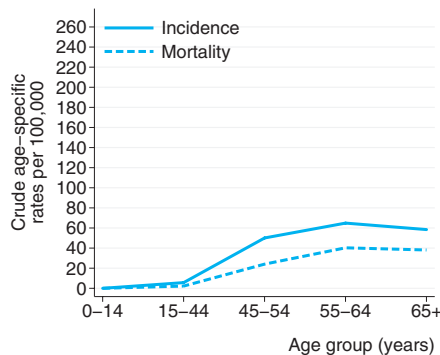


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	1.7
Fertility rate (live births per women)	2.3
Oral Contraceptive Use (%)	6.7

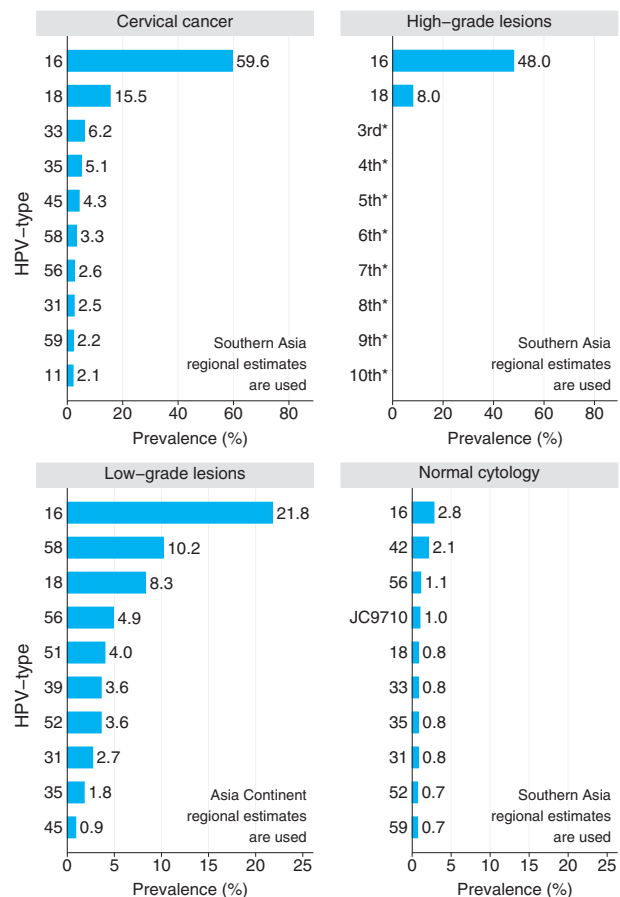
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	19164	6.6 (6.2-6.9)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions†	25	64 (42.5-82.0)
Cervical cancer: any type†	386	90.2* (86.7-92.9)
Cervical cancer: HPV 16/18†	386	75.1 (70.5-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Asia regional estimate
‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



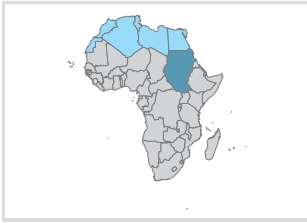
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SUDAN



has a population of 11.02 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1664 women are diagnosed with cervical cancer and 1354 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Sudan, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Sudan. However, in Northern Africa, the region Sudan belongs to, about 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 72.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.3	8.4
Age-standardized rate	15.4	12.7
Cumulative risk 0-64 years (%)	1.1	0.9
SIR/SMR	87	136
Annual number of new cases/deaths	1664	1354
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

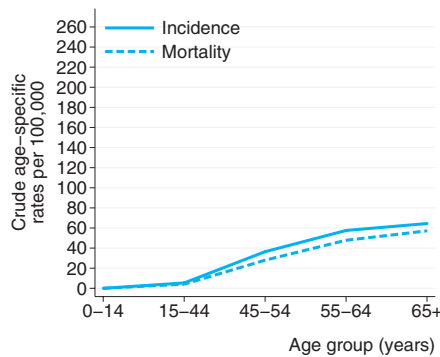


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.6
Smoking prevalence in women (%)	1.5
Fertility rate (live births per women)	4.6
Oral Contraceptive Use (%)	5.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type†	335	95.5* (92.7-97.5)
Cervical cancer: HPV 16/18†	335	72.5 (67.4-77.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

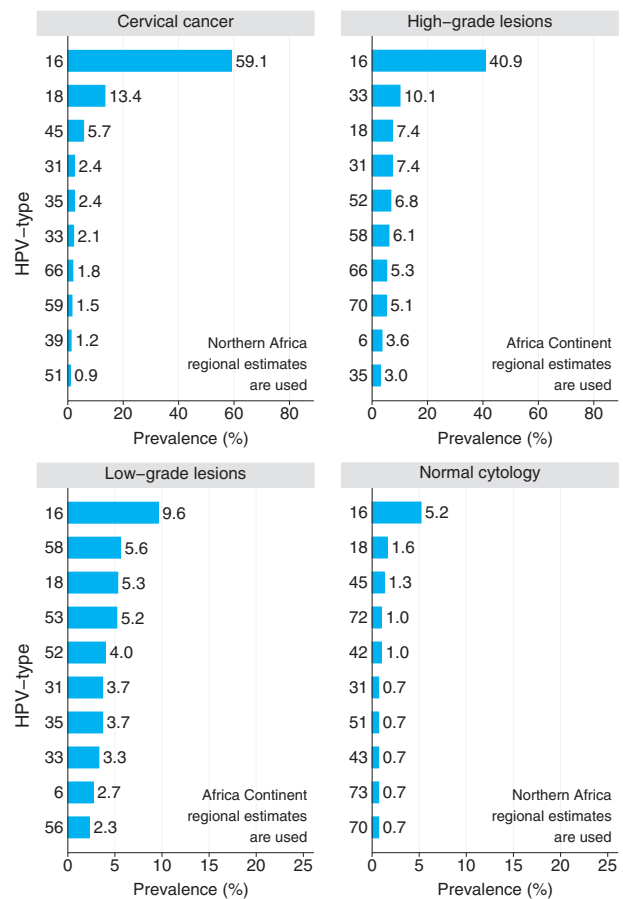


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	78
Percentage of districts with >=80% DTP3 coverage	72

DTP: Diphtheria, Tetanus and Pertussis

SURINAME



has a population of 159845 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 51 women are diagnosed with cervical cancer and 26 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Suriname, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Suriname. However, in South America, the region Suriname belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.3% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	24.2	12.3
Age-standardized rate	27	14
Cumulative risk 0-64 years (%)	1.6	0.7
SIR/SMR	173	164
Annual number of new cases/deaths	51	26
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

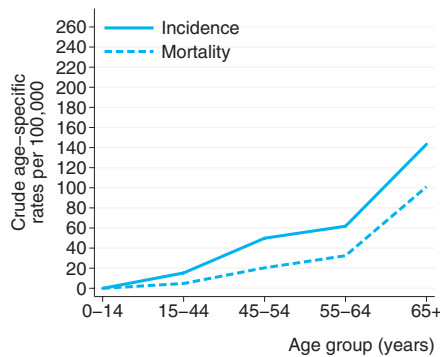


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.9
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	2.7
Oral Contraceptive Use (%)	24.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type†	1041	91.1* (89.2-92.7)
Cervical cancer: HPV 16/18†	1041	67.3 (64.4-70.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

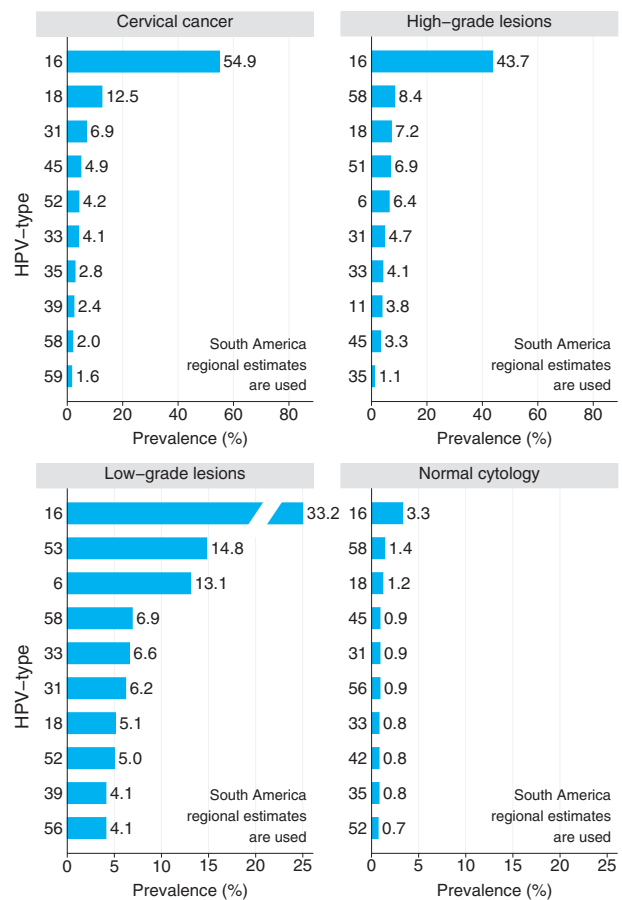


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	84
Percentage of districts with >=80% DTP3 coverage	90

DTP: Diphtheria, Tetanus and Pertussis

SWAZILAND



has a population of 324281 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 186 women are diagnosed with cervical cancer and 150 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Swaziland, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Swaziland. However, in Southern Africa, the region Swaziland belongs to, about 15.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 63.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	39.4	31.6
Age-standardized rate	58.9	47.6
Cumulative risk 0-64 years (%)	4.6	3.7
SIR/SMR	346	532
Annual number of new cases/deaths	186	150
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

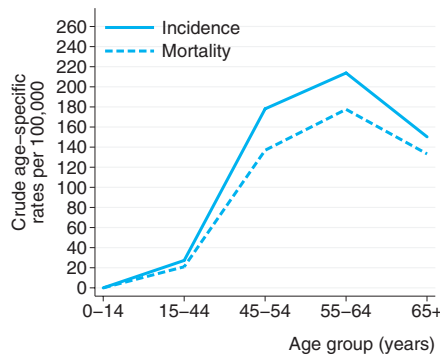


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	33.4
Smoking prevalence in women (%)	2.9
Fertility rate (live births per women)	5.0
Oral Contraceptive Use (%)	5.4

Table 4. Burden of HPV in women with and without cervical disease

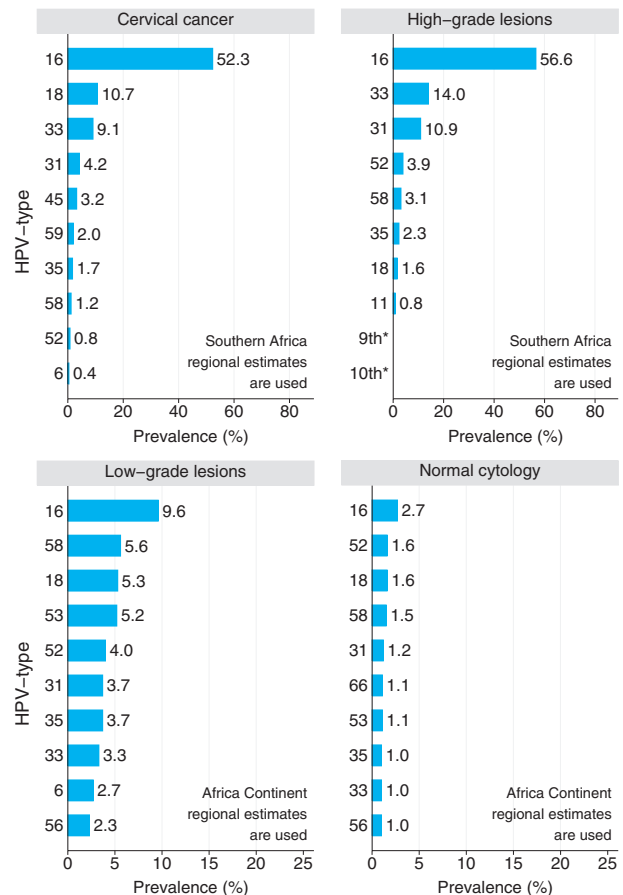
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	1269	15.5 (13.6-17.6)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions†	129	88.4 (81.5-93.3)
Cervical cancer: any type†	308	93.8* (90.5-96.2)
Cervical cancer: HPV 16/18‡	308	63.0 (57.3-68.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Southern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	68
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SWEDEN



has a population of 3.79 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 485 women are diagnosed with cervical cancer and 249 die from the disease. Cervical cancer ranks as the 10th most

frequent cancer in women in Sweden, and the 3rd most frequent cancer among women between 15 and 44 years of age. About 5.8% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 68.0% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.9	5.6
Age-standardized rate	8.2	3.1
Cumulative risk 0-64 years (%)	0.6	0.2
SIR/SMR	45	38
Annual number of new cases/deaths	485	249
Ranking of cervical cancer (all ages) †	10th	12th
Ranking of cervical cancer (15-44 years) †	3rd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

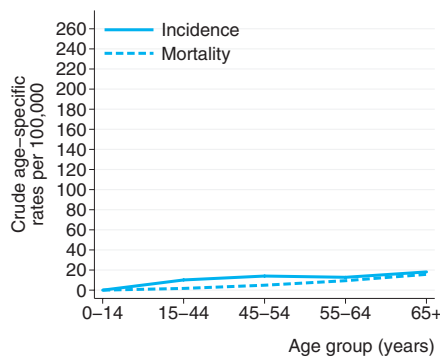


Table 2. Cervical screening coverage

>80% in Northern Sweden, 20-30% in Malmo, 50-70% in most counties (2000)

Table 3. Factors contributing to cervical cancer

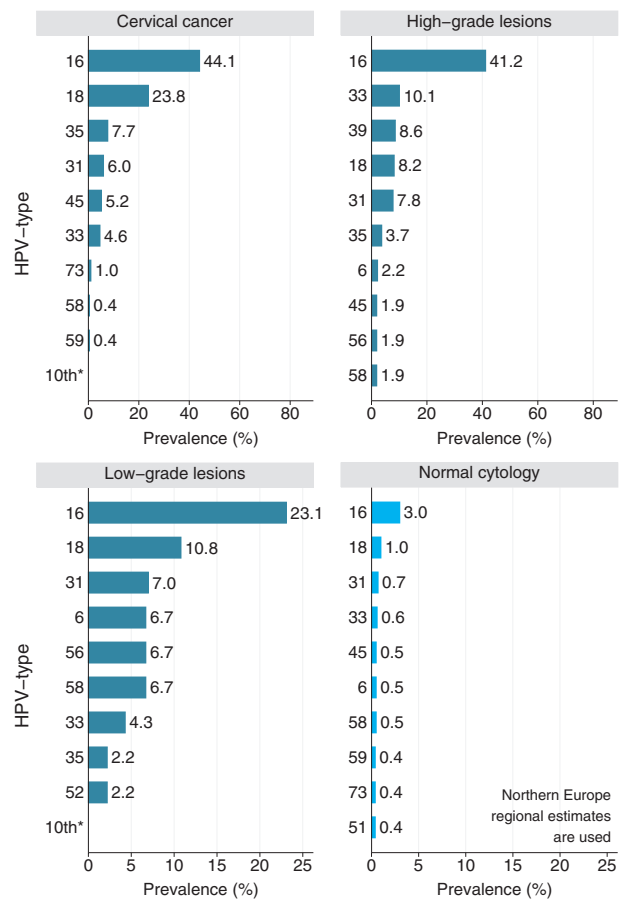
HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	18.3
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	617	5.8 (4.1-8.0)
Low-grade lesions	186	76.3 (69.6-82.3)
High-grade lesions	383	80.4 (76.1-84.3)
Cervical cancer: any type	562	75.4* (71.7-79.0)
Cervical cancer: HPV 16/18	562	68.0 (63.9-71.8)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

SWITZERLAND



has a population of 3.16 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 389 women are diagnosed with cervical cancer and 108 die from the disease. Cervical cancer ranks as the 10th most

frequent cancer in women in Switzerland, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Switzerland. However, in Western Europe, the region Switzerland belongs to, about 6.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 73.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.7	3
Age-standardized rate	8.3	1.7
Cumulative risk 0-64 years (%)	0.7	0.1
SIR/SMR	44	20
Annual number of new cases/deaths	389	108
Ranking of cervical cancer (all ages) †	10th	16th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

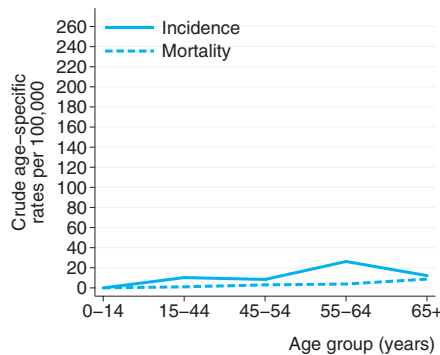


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.4
Smoking prevalence in women (%)	23.1
Fertility rate (live births per women)	1.4
Oral Contraceptive Use (%)	34.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	48701	6.1 (5.9-6.4)
Low-grade lesions†	312	68.6 (63.1-73.7)
High-grade lesions†	1664	93.3 (92.0-94.5)
Cervical cancer: any type†	998	86.8* (84.5-88.8)
Cervical cancer: HPV 16/18†	998	73.6 (70.8-76.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Western Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

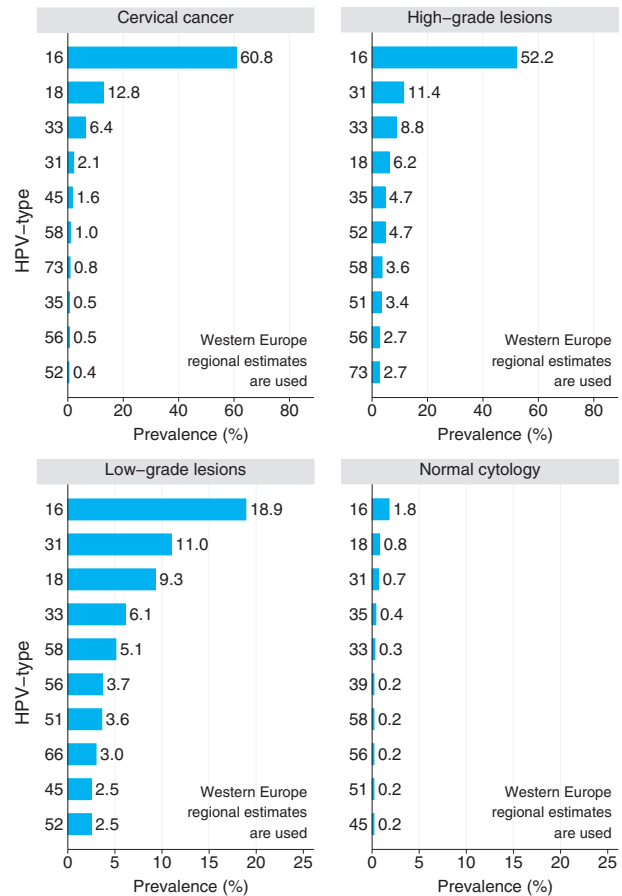


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

SYRIA



has a population of 6.02 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 118 women are diagnosed with cervical cancer and 55 die from the disease. Cervical cancer ranks as the 14th most

frequent cancer in women in Syria, and the 10th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Syria. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	1.4	0.7
Age-standardized rate	2	1
Cumulative risk 0-64 years (%)	0.1	0.1
SIR/SMR	13	12
Annual number of new cases/deaths	118	55
Ranking of cervical cancer (all ages) †	14th	14th
Ranking of cervical cancer (15-44 years) †	10th	9th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

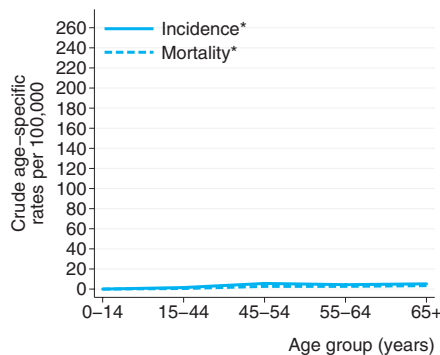


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	9.92
Fertility rate (live births per women)	4.7
Oral Contraceptive Use (%)	9.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

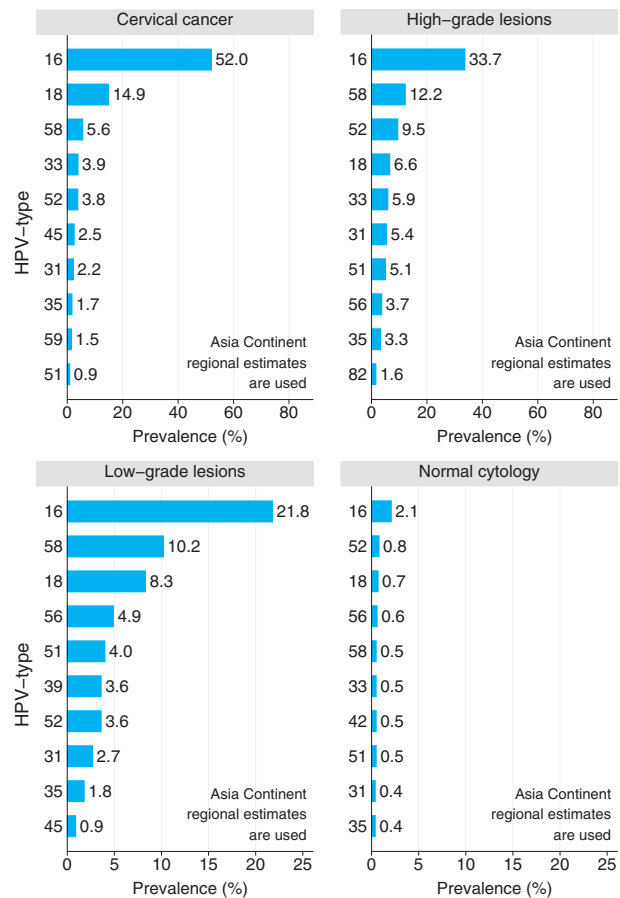


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

TAJIKISTAN



has a population of 2.03 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 232 women are diagnosed with cervical cancer and 70 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Tajikistan, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Tajikistan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	7.5	2.3
Age-standardized rate	9.9	3.5
Cumulative risk 0-64 years (%)	0.8	0.3
SIR/SMR	63	37
Annual number of new cases/deaths	232	70
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	1st	6th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

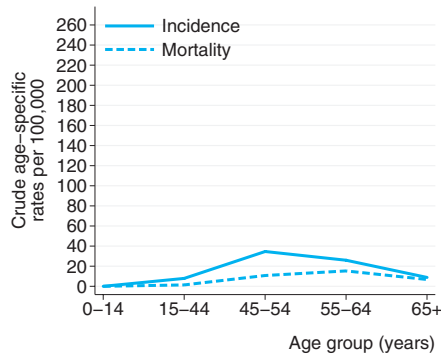


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.2
Oral Contraceptive Use (%)	0.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

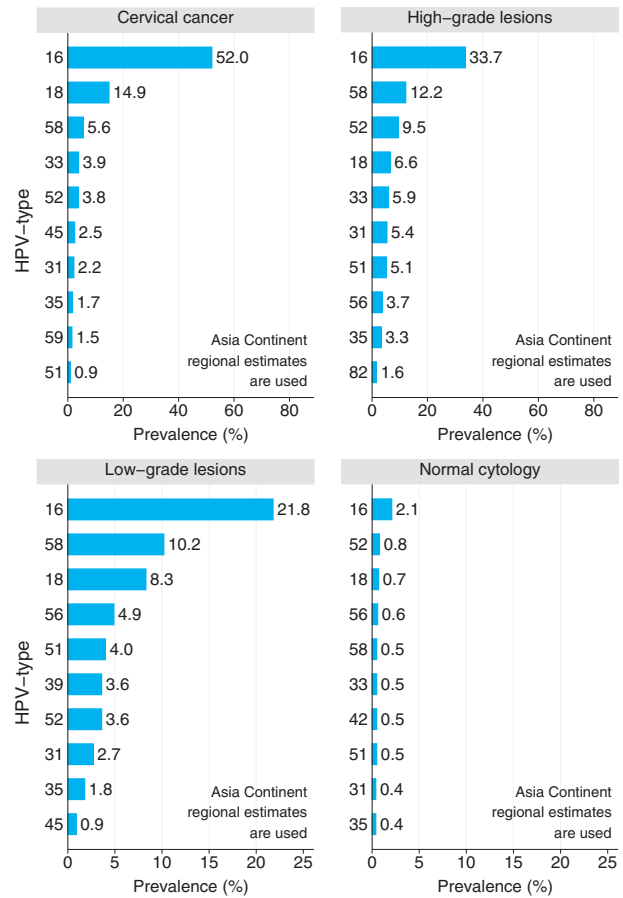


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	86
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

TANZANIA



has a population of 11.14 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 7515 women are diagnosed with cervical cancer and 6009 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Tanzania, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Tanzania. However, in Eastern Africa, the region Tanzania belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Tanzania 72.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	40.6	32.5
Age-standardized rate	68.6	55.6
Cumulative risk 0-64 years (%)	5.1	4
SIR/SMR	399	629
Annual number of new cases/deaths	7515	6009
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

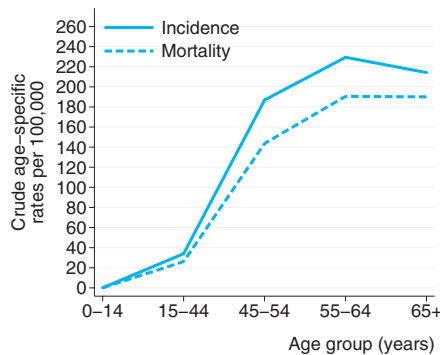


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	6.5
Smoking prevalence in women (%)	1.3
Fertility rate (live births per women)	5.6
Oral Contraceptive Use (%)	5.3

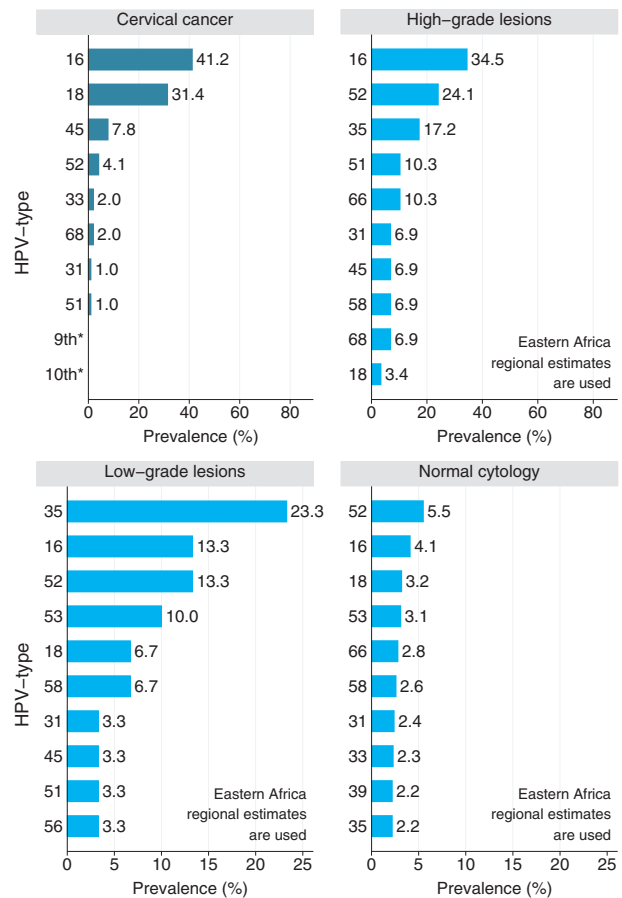
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type	102	94.1* (87.6-97.8)
Cervical cancer: HPV 16/18	102	72.5 (62.8-80.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	90
Percentage of districts with >=80% DTP3 coverage	73

DTP: Diphtheria, Tetanus and Pertussis

THAILAND



has a population of 25.14 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6243 women are diagnosed with cervical cancer and 2620 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Thailand, and the 1st most frequent cancer among women between 15 and 44 years of age. About 6.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.9% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	19.2	8.1
Age-standardized rate	19.8	8.4
Cumulative risk 0-64 years (%)	1.5	0.6
SIR/SMR	122	96
Annual number of new cases/deaths	6243	2620
Ranking of cervical cancer (all ages) †	1st	3rd
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

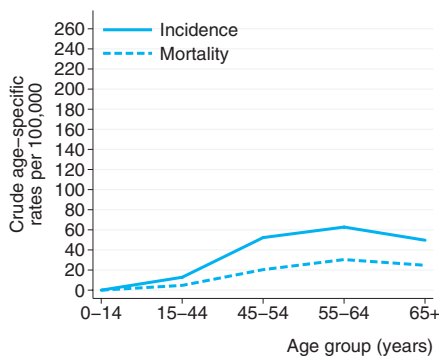


Table 2. Cervical screening coverage

<5% (2003)

Table 3. Factors contributing to cervical cancer

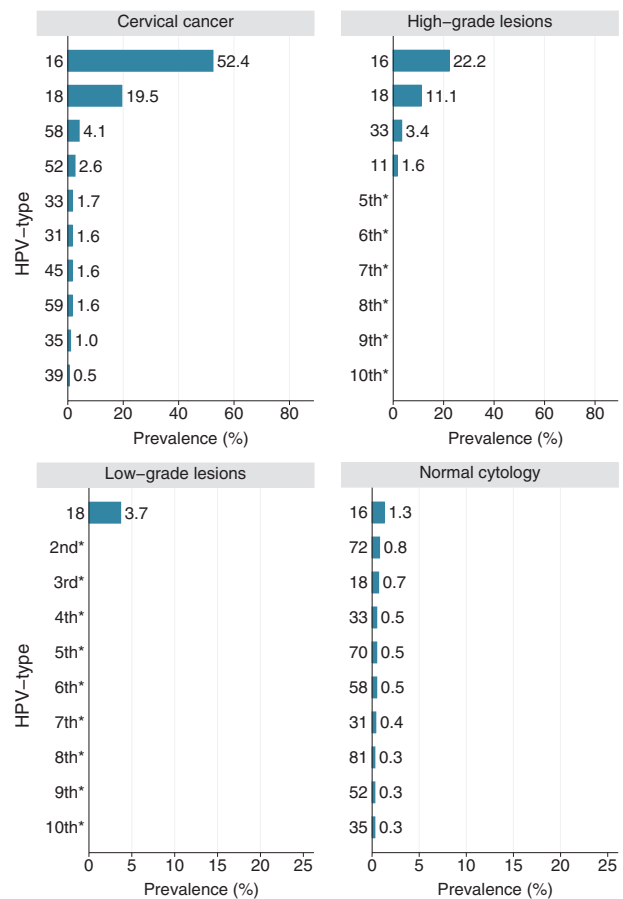
HIV rate (%) in adults (15-49 years)	1.4
Smoking prevalence in women (%)	2.9
Fertility rate (live births per women)	2.0
Oral Contraceptive Use (%)	23.1

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1920	6.3 (5.3-7.5)
Low-grade lesions	27	33.3 (16.5-54.0)
High-grade lesions	207	61.8 (54.8-68.5)
Cervical cancer: any type	590	90* (87.3-92.3)
Cervical cancer: HPV 16/18	590	71.9 (68.0-75.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

TIMOR-LESTE



has a population of 264413 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Timor-Leste. However, in South-Eastern Asia, the region Timor-Leste belongs to, current estimates

indicate that every year 42538 women are diagnosed with cervical cancer and 22594 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women in South-Eastern Asia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Timor-Leste. However, in South-Eastern Asia about 6.2% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 71.8% of invasive cervical cancers are attributed to HPV16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

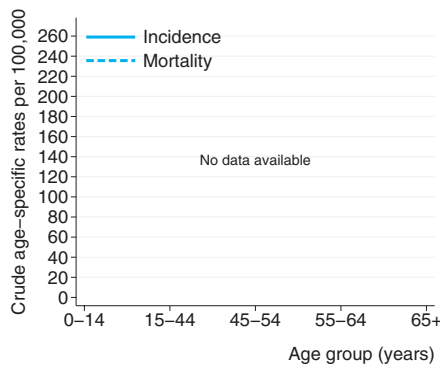


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

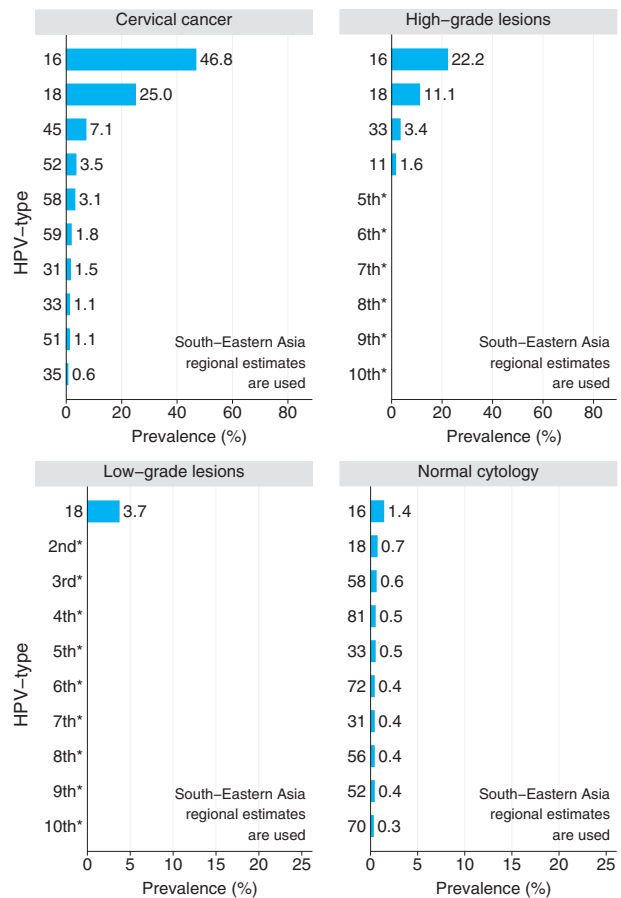
HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	4.7
Oral Contraceptive Use (%)	0.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4194	6.2 (5.5-6.9)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



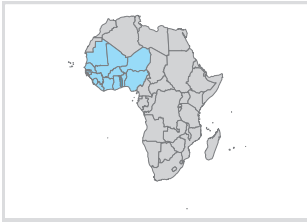
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	67
Percentage of districts with >=80% DTP3 coverage	23

DTP: Diphtheria, Tetanus and Pertussis

TOGO



has a population of 1.77 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 435 women are diagnosed with cervical cancer and 349 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Togo, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Togo. However, in Western Africa, the region Togo belongs to, about 16.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 50.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence*	Mortality*
Crude rate	18.1	14.6
Age-standardized rate	29.3	23.8
Cumulative risk 0-64 years (%)	2.2	1.8
SIR/SMR	171	265
Annual number of new cases/deaths	435	349
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

*No data available, calculated from the average of neighbouring countries.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

*No data available, calculated from the average of neighbouring countries.

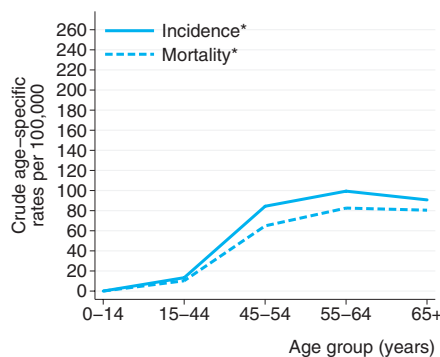


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	3.2
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	5.4
Oral Contraceptive Use (%)	2.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2641	16.5 (15.1-18.0)
Low-grade lesions†	271	59 (52.9-65.0)
High-grade lesions†	138	79.7 (72.0-86.1)
Cervical cancer: any type†	218	85.8* (80.4-90.1)
Cervical cancer: HPV 16/18†	218	50.5 (43.6-57.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Western Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

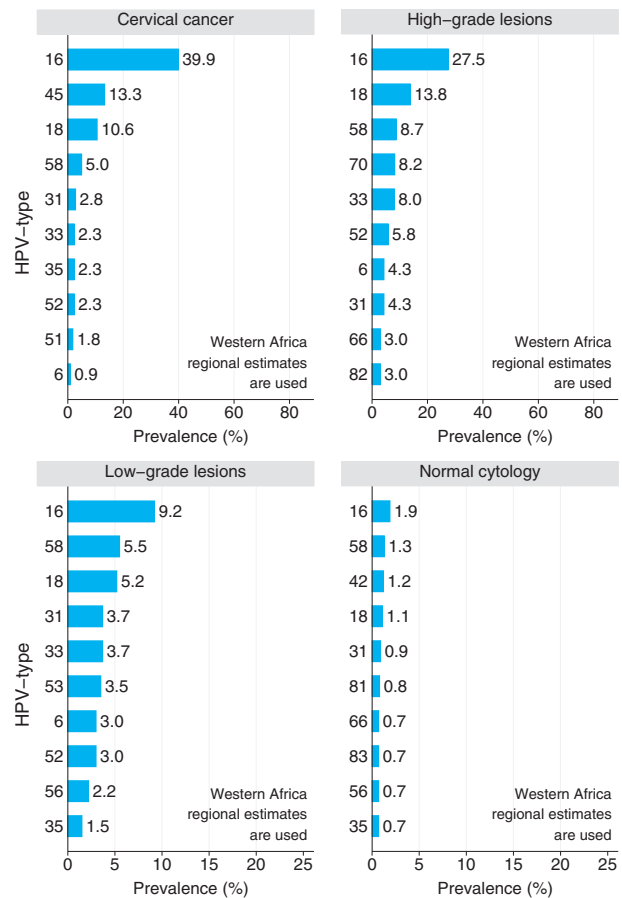


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	87
Percentage of districts with >=80% DTP3 coverage	80

DTP: Diphtheria, Tetanus and Pertussis

TONGA



has a population of 32067 women ages 15 years and older who are at risk of developing cervical cancer. Data is not yet available on the burden of cervical cancer in Tonga. However, in Polynesia, the region Tonga belongs to, current estimates indicate that every year

72 women are diagnosed with cervical cancer and 38 die from the disease. Cervical cancer ranks as the 2nd most frequent cancer in women in Polynesia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Tonga, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

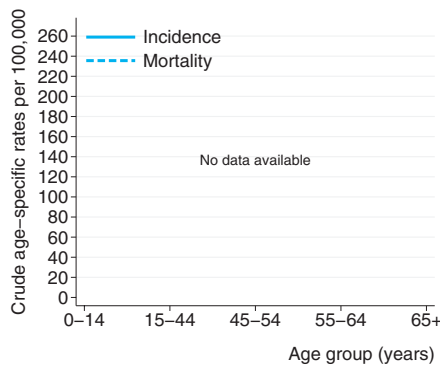


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	10.5
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

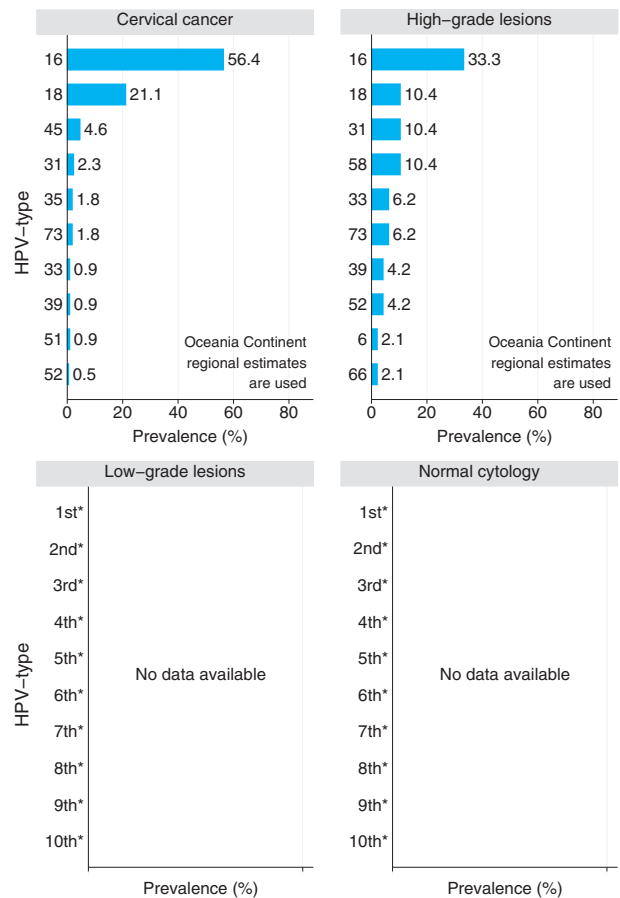
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

TRINIDAD & TOBAGO



has a population of 522065 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 186 women are diagnosed with cervical cancer and 73 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Trinidad & Tobago, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Trinidad & Tobago. However, in Americas Continent about 15.6% of women in the general population are estimated to harbour cervical HPV infection at a given time. In Caribbean, the region Trinidad & Tobago belongs to, about 64.4% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	28.3	11.1
Age-standardized rate	27.1	10.7
Cumulative risk 0-64 years (%)	1.9	0.7
SIR/SMR	167	120
Annual number of new cases/deaths	186	73
Ranking of cervical cancer (all ages) †	2nd	2nd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

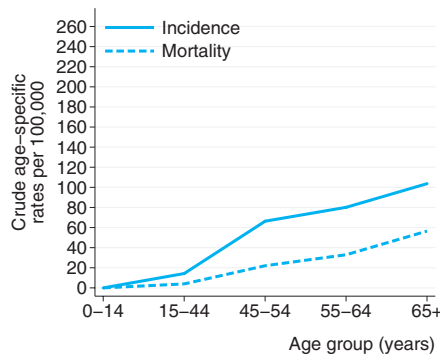


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	2.6
Smoking prevalence in women (%)	8
Fertility rate (live births per women)	1.7
Oral Contraceptive Use (%)	10.2

Table 4. Burden of HPV in women with and without cervical disease

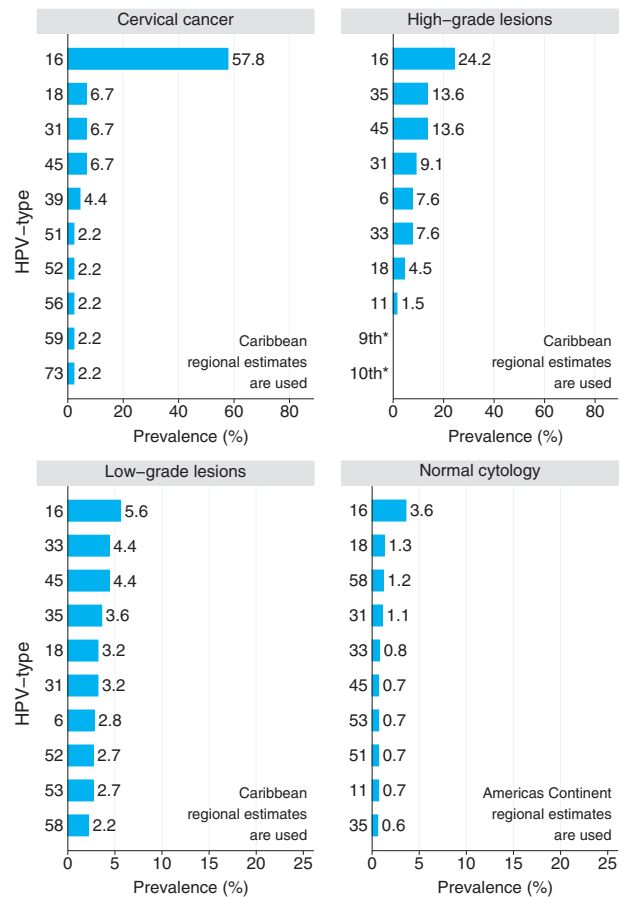
	No. tested	HPV prevalence % (95% CI)
Normal cytology†	40399	15.6 (15.2-15.9)
Low-grade lesions†	248	60.9 (54.5-67.0)
High-grade lesions†	66	80.3 (68.7-89.1)
Cervical cancer: any type†	45	97.8* (88.2-99.9)
Cervical cancer: HPV 16/18†	45	64.4 (48.8-78.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Caribbean regional estimate

‡Americas Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	78

DTP: Diphtheria, Tetanus and Pertussis

TUNISIA



has a population of 3.74 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 284 women are diagnosed with cervical cancer and 229 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Tunisia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Tunisia. However, in Northern Africa, the region Tunisia belongs to, about 21.5% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 72.5% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	6	4.8
Age-standardized rate	6.8	5.5
Cumulative risk 0-64 years (%)	0.5	0.4
SIR/SMR	41	62
Annual number of new cases/deaths	284	229
Ranking of cervical cancer (all ages) †	2nd	3rd
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

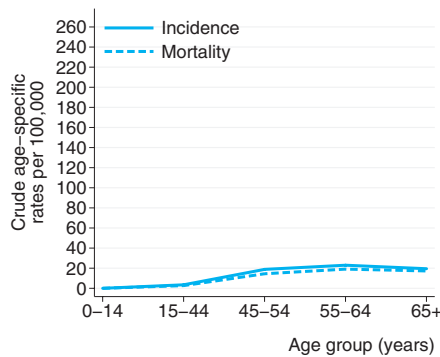


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.1
Smoking prevalence in women (%)	2.4
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	11.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	172	21.5 (15.6-28.4)
Low-grade lesions‡	301	59.1 (53.3-64.7)
High-grade lesions‡	296	85.1 (80.6-89.0)
Cervical cancer: any type†	335	95.5* (92.7-97.5)
Cervical cancer: HPV 16/18†	335	72.5 (67.4-77.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Northern Africa regional estimate

‡Africa Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

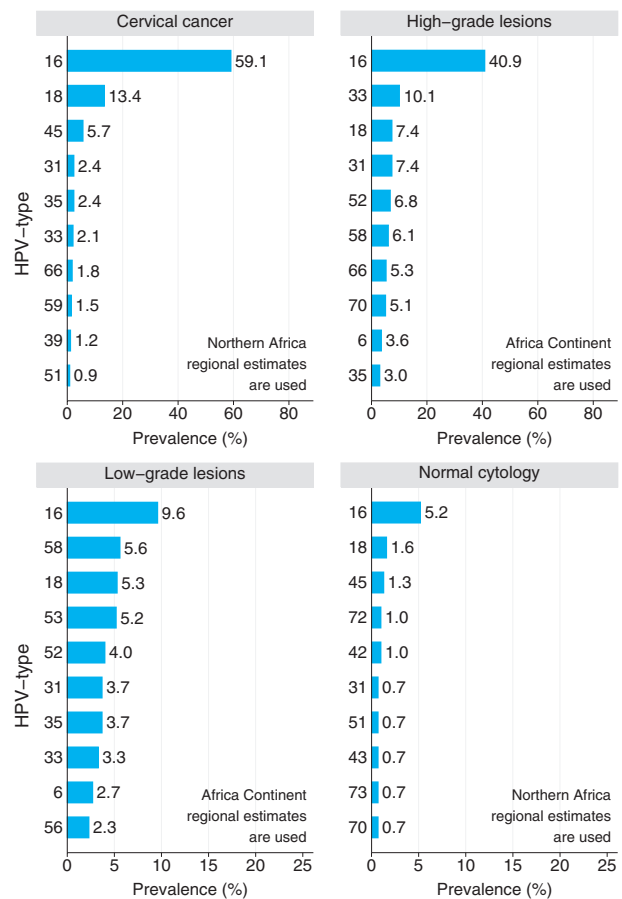


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	99
Percentage of districts with >=80% DTP3 coverage	97

DTP: Diphtheria, Tetanus and Pertussis

TURKEY



has a population of 25.83 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1364 women are diagnosed with cervical cancer and 726 die from the disease. Cervical cancer ranks as the 8th

most frequent cancer in women in Turkey, and the 7th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Turkey. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	4	2.1
Age-standardized rate	4.5	2.4
Cumulative risk 0-64 years (%)	0.3	0.2
SIR/SMR	27	27
Annual number of new cases/deaths	1364	726
Ranking of cervical cancer (all ages) †	8th	8th
Ranking of cervical cancer (15-44 years) †	7th	9th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

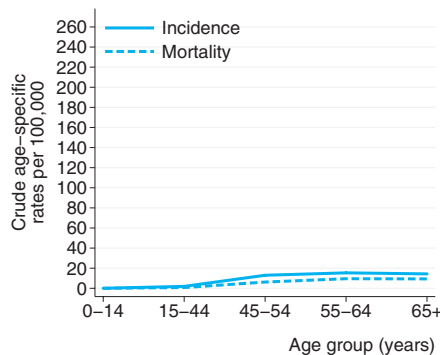


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	17.6
Fertility rate (live births per women)	2.5
Oral Contraceptive Use (%)	4.4

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

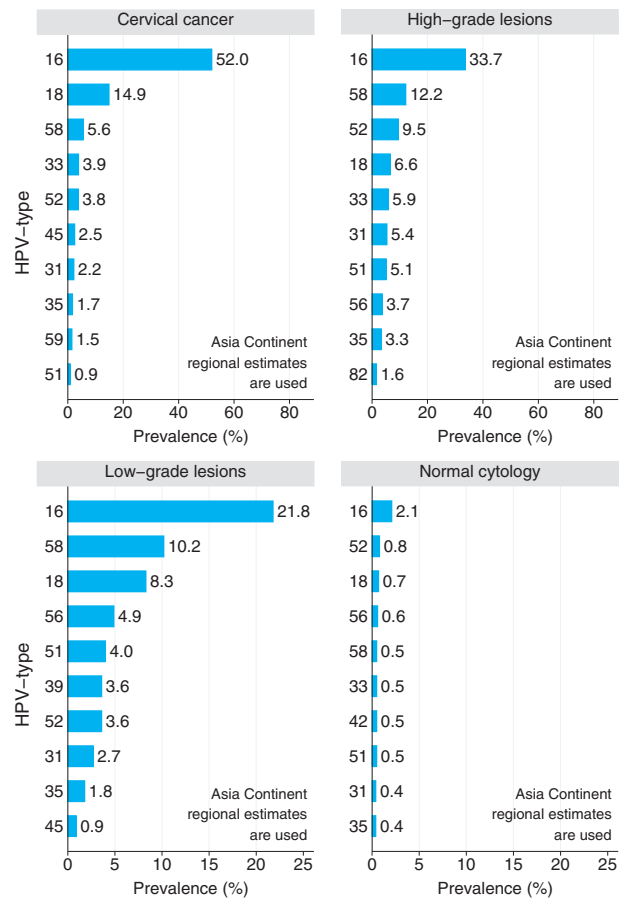


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	90
Percentage of districts with >=80% DTP3 coverage	89

DTP: Diphtheria, Tetanus and Pertussis

TURKMENISTAN



has a population of 1.69 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 274 women are diagnosed with cervical cancer and 96 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in Turkmenistan, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Turkmenistan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	11.1	3.8
Age-standardized rate	13.5	5.2
Cumulative risk 0-64 years (%)	1	0.3
SIR/SMR	89	58
Annual number of new cases/deaths	274	96
Ranking of cervical cancer (all ages) †	2nd	4th
Ranking of cervical cancer (15-44 years) †	1st	3rd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

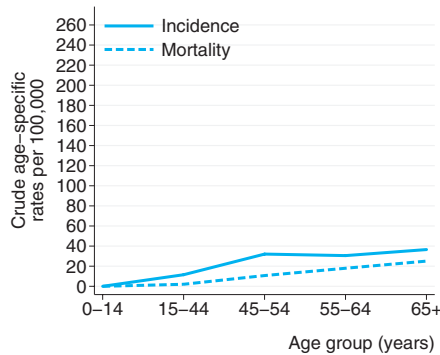


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	<0.1
Smoking prevalence in women (%)	1
Fertility rate (live births per women)	3.0
Oral Contraceptive Use (%)	1.2

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

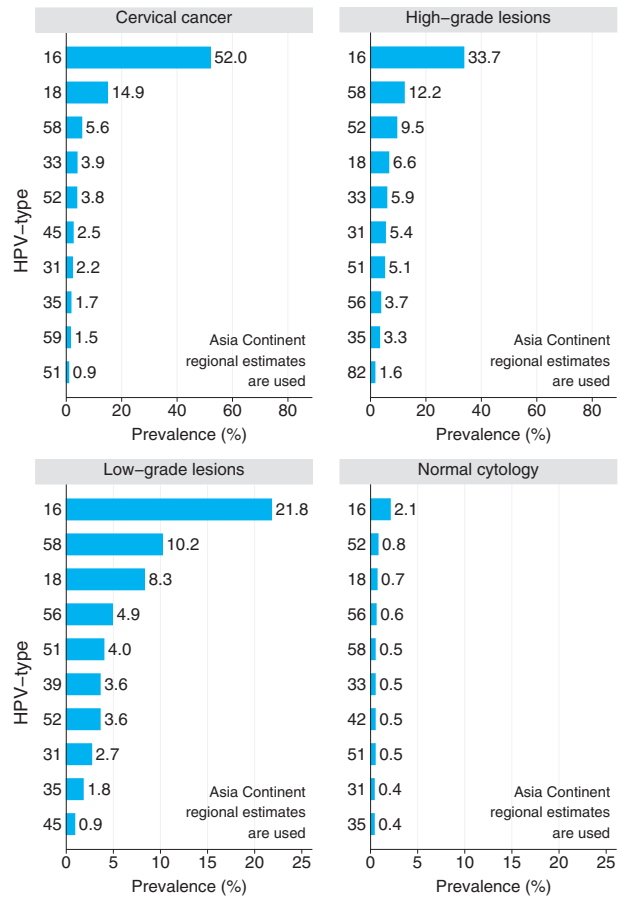


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

TUVALU



Data is not yet available on the burden of cervical cancer in Tuvalu. However, in Polynesia, the region Tuvalu belongs to, current estimates indicate that every year 72 women are diagnosed with cervical cancer and 38 die from the disease. Cervical cancer ranks as the

2nd most frequent cancer in women in Polynesia, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Tuvalu, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	-	-
Age-standardized rate	-	-
Cumulative risk 0-64 years (%)	-	-
SIR/SMR	-	-
Annual number of new cases/deaths	-	-
Ranking of cervical cancer (all ages) †	-	-
Ranking of cervical cancer (15-44 years) †	-	-

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

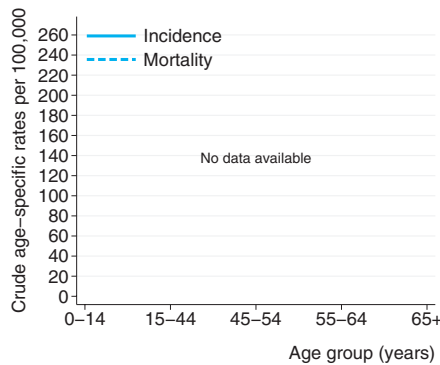


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	-
Fertility rate (live births per women)	-
Oral Contraceptive Use (%)	-

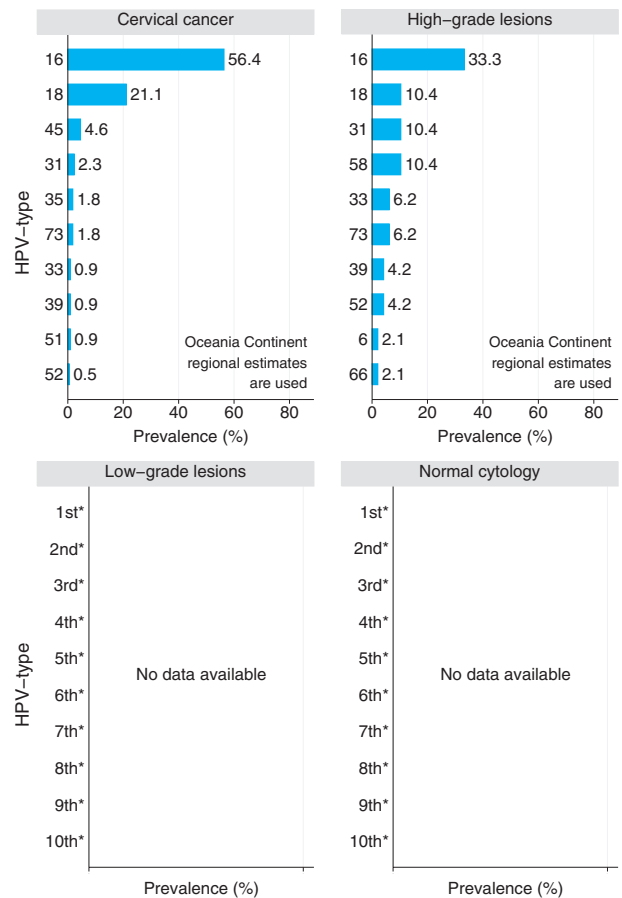
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	-
Low-grade lesions †	-	-
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	97
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

UGANDA



has a population of 7.19 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 2429 women are diagnosed with cervical cancer and 1932 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Uganda, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Uganda. However, in Eastern Africa, the region Uganda belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time. And in Uganda 76.7% of invasive cervical cancers are attributed to HPV 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	19.5	15.5
Age-standardized rate	36.3	29.2
Cumulative risk 0-64 years (%)	2.8	2.2
SIR/SMR	215	338
Annual number of new cases/deaths	2429	1932
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

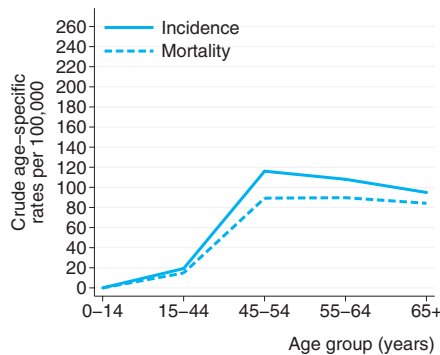


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	6.7
Smoking prevalence in women (%)	3.3
Fertility rate (live births per women)	7.0
Oral Contraceptive Use (%)	3.2

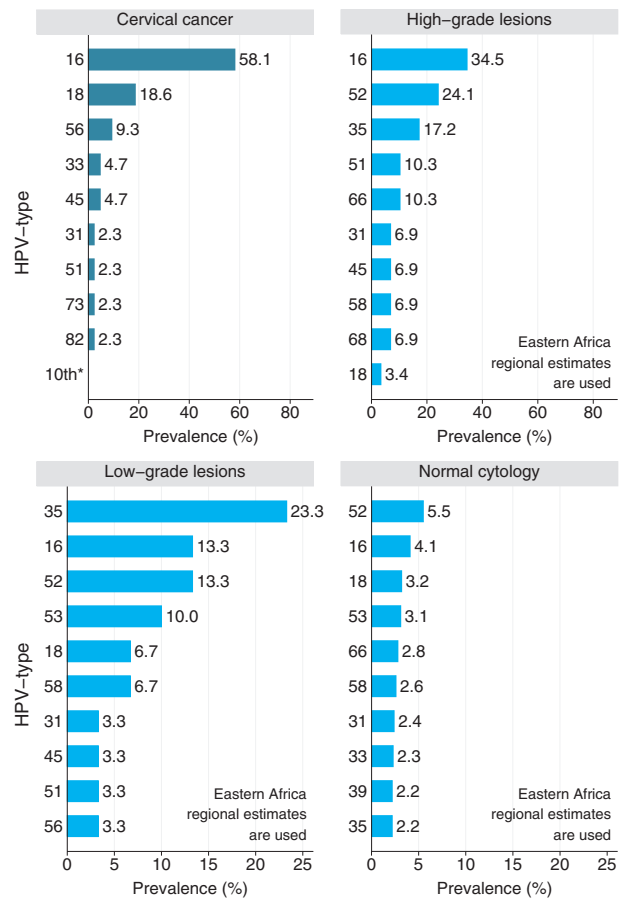
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type	43	97.7* (87.7-99.9)
Cervical cancer: HPV 16/18	43	76.7 (61.4-88.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



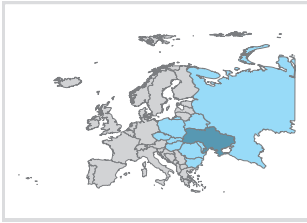
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	80
Percentage of districts with >=80% DTP3 coverage	51

DTP: Diphtheria, Tetanus and Pertussis

UKRAINE



has a population of 21.81 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 4885 women are diagnosed with cervical cancer and 2578 die from the disease. Cervical cancer ranks as the 5th

most frequent cancer in women in Ukraine, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Ukraine. However, in Eastern Europe, the region Ukraine belongs to, about 29.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 70.8% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	18.8	9.9
Age-standardized rate	14.1	6.4
Cumulative risk 0-64 years (%)	1.1	0.4
SIR/SMR	80	70
Annual number of new cases/deaths	4885	2578
Ranking of cervical cancer (all ages) †	5th	6th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

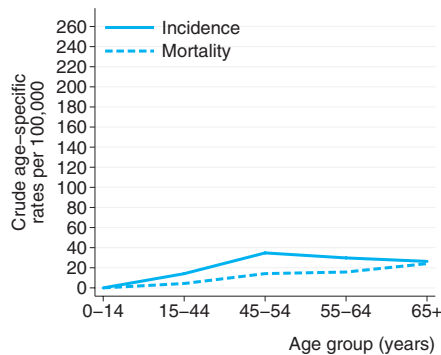


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	1.4
Smoking prevalence in women (%)	11.1
Fertility rate (live births per women)	1.2
Oral Contraceptive Use (%)	3.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	309	29.1 (24.1-34.5)
Low-grade lesions†	87	52.9 (41.9-63.7)
High-grade lesions†	163	75.5 (68.1-81.9)
Cervical cancer: any type†	459	84.5* (80.9-87.7)
Cervical cancer: HPV 16/18†	459	70.8 (66.4-74.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Europe regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

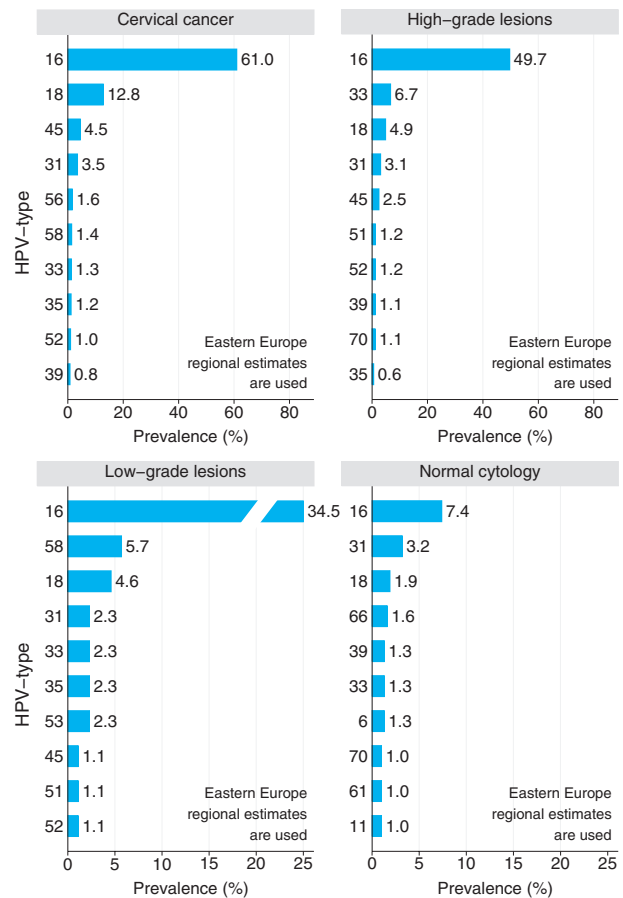


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	98
Percentage of districts with >=80% DTP3 coverage	5

DTP: Diphtheria, Tetanus and Pertussis

UNITED ARAB EMIRATES



has a population of 947645 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 73 women are diagnosed with cervical cancer and 36 die from the disease. Cervical cancer ranks as the 2nd most

frequent cancer in women in United Arab Emirates, and the 3rd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of United Arab Emirates. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	7.9	3.9
Age-standardized rate	9.9	5.2
Cumulative risk 0-64 years (%)	0.7	0.4
SIR/SMR	60	59
Annual number of new cases/deaths	73	36
Ranking of cervical cancer (all ages) †	2nd	5th
Ranking of cervical cancer (15-44 years) †	3rd	3rd

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

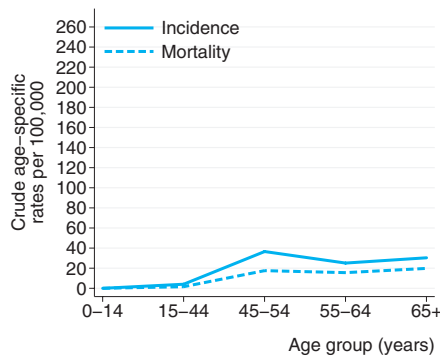


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	1.3
Fertility rate (live births per women)	5.0
Oral Contraceptive Use (%)	11.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

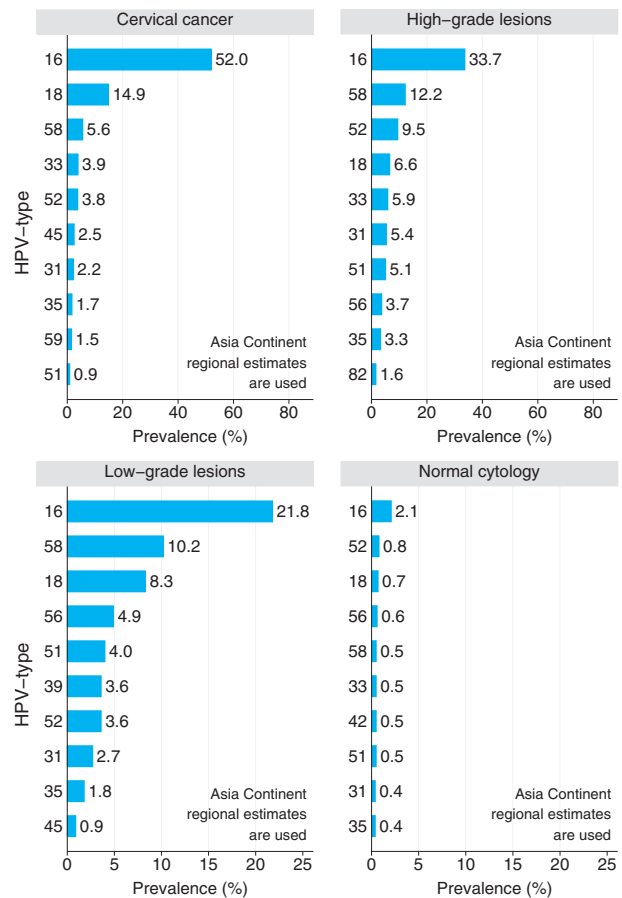


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

UNITED KINGDOM



has a population of 25.30 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 3181 women are diagnosed with cervical cancer and 1529 die from the disease. Cervical cancer ranks as the 11th

most frequent cancer in women in United Kingdom, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 7.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 82.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	10.5	5.1
Age-standardized rate	8.3	3.1
Cumulative risk 0-64 years (%)	0.6	0.2
SIR/SMR	46	37
Annual number of new cases/deaths	3181	1529
Ranking of cervical cancer (all ages) †	11th	11th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

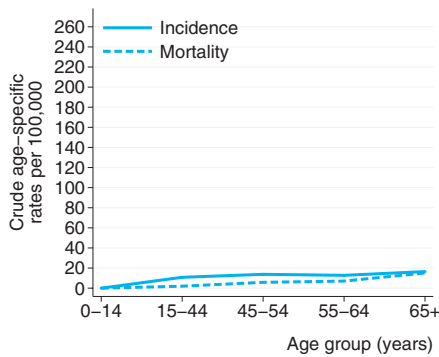


Table 2. Cervical screening coverage

81% in the last 5 years and 71% in the last 3 years among women in the target population (2003)

Table 3. Factors contributing to cervical cancer

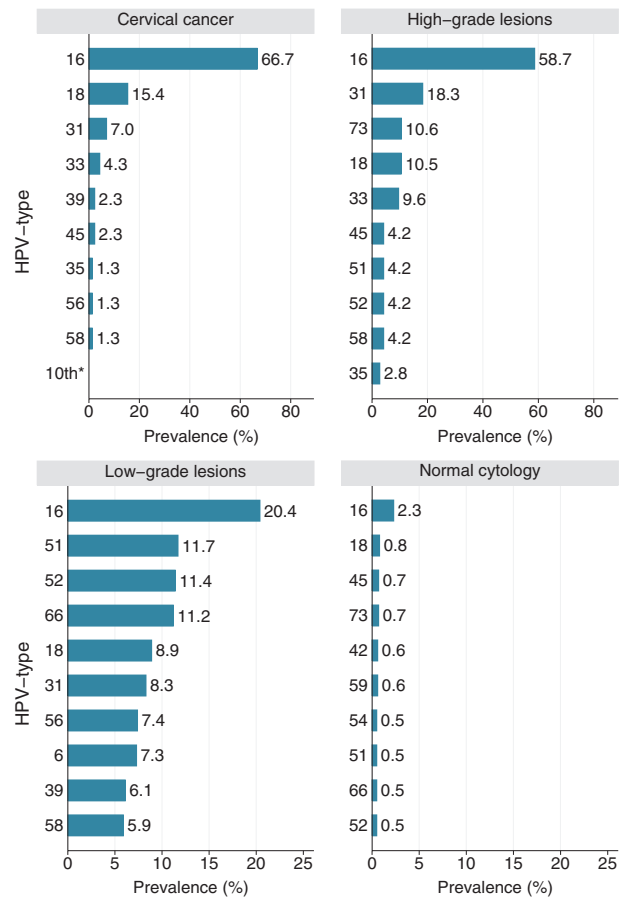
HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	25
Fertility rate (live births per women)	1.6
Oral Contraceptive Use (%)	22.0

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	13890	7.1 (6.7-7.6)
Low-grade lesions	460	88.9 (85.7-91.6)
High-grade lesions	363	91.5 (88.1-94.1)
Cervical cancer: any type	234	91.5* (87.1-94.7)
Cervical cancer: HPV 16/18	234	82.1 (76.5-86.7)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



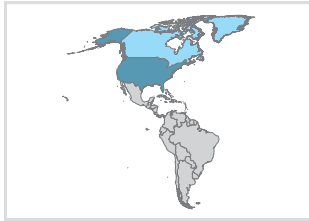
*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	92
Percentage of districts with >=80% DTP3 coverage	96

DTP: Diphtheria, Tetanus and Pertussis

UNITED STATES OF AMERICA



has a population of 121.32 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 13162 women are diagnosed with cervical cancer and 5214 die from the disease. Cervical cancer ranks as the 13th

most frequent cancer in women in United States of America, and the 4th most frequent cancer among women between 15 and 44 years of age. About 13.1% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 77.1% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	9	3.6
Age-standardized rate	7.7	2.3
Cumulative risk 0-64 years (%)	0.6	0.1
SIR/SMR	43	29
Annual number of new cases/deaths	13162	5214
Ranking of cervical cancer (all ages) †	13th	12th
Ranking of cervical cancer (15-44 years) †	4th	9th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

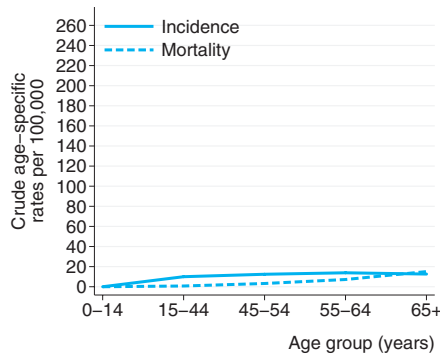


Table 2. Cervical screening coverage

>85% ever screened and approximately 80% had a smear in the last 2 years (1999); >82% aged 25 years and above had a smear in last 3 years (2000).

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.6
Smoking prevalence in women (%)	19.2
Fertility rate (live births per women)	2.1
Oral Contraceptive Use (%)	15.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	23685	13.1 (12.6-13.5)
Low-grade lesions	2295	79.3 (77.6-81.0)
High-grade lesions	1001	84.9 (82.5-87.1)
Cervical cancer: any type	1182	87.3* (85.3-89.2)
Cervical cancer: HPV 16/18	1182	77.1 (74.6-79.4)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

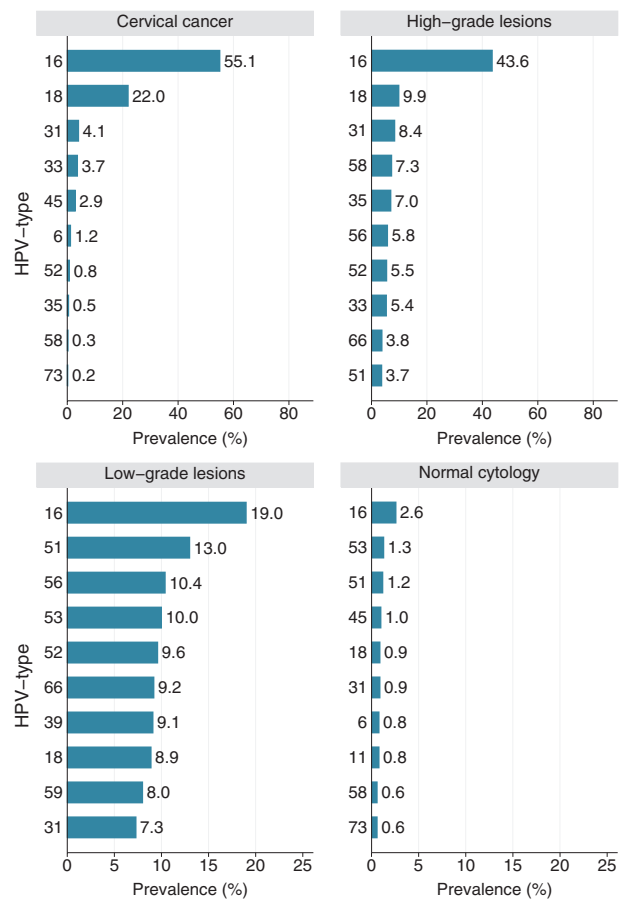


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	96
Percentage of districts with >=80% DTP3 coverage	-

DTP: Diphtheria, Tetanus and Pertussis

URUGUAY



has a population of 1.37 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 392 women are diagnosed with cervical cancer and 162 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Uruguay, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Uruguay. However, in South America, the region Uruguay belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.3% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	22.6	9.3
Age-standardized rate	18.8	7
Cumulative risk 0-64 years (%)	1.4	0.5
SIR/SMR	114	79
Annual number of new cases/deaths	392	162
Ranking of cervical cancer (all ages) †	3rd	5th
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

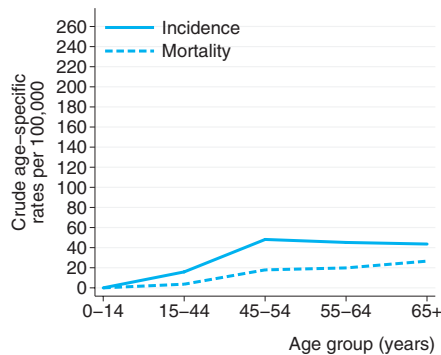


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	23.8
Fertility rate (live births per women)	2.2
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type†	1041	91.1* (89.2-92.7)
Cervical cancer: HPV 16/18†	1041	67.3 (64.4-70.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

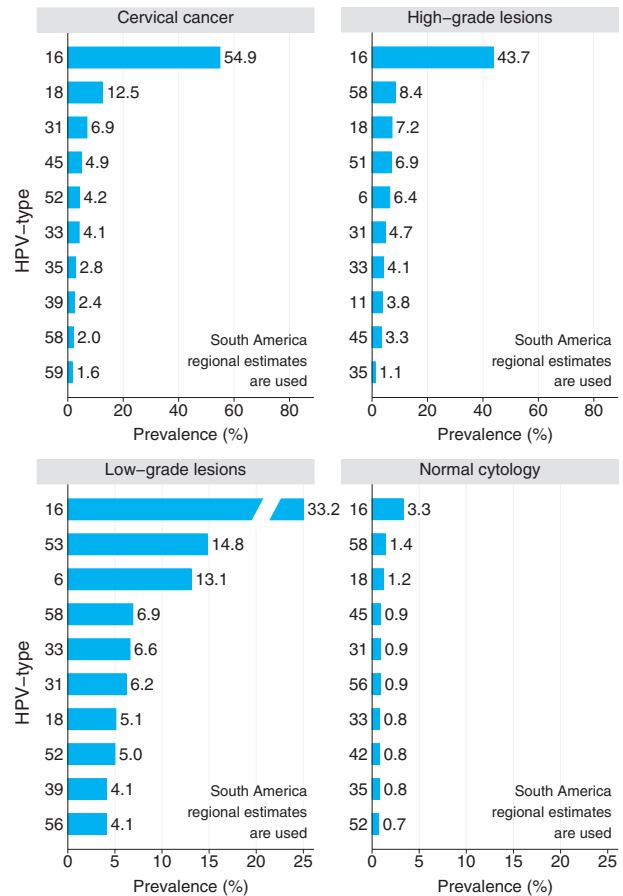


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

UZBEKISTAN



has a population of 9.03 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1149 women are diagnosed with cervical cancer and 379 die from the disease. Cervical cancer ranks as the 2nd

most frequent cancer in women in Uzbekistan, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Uzbekistan. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	9	2.9
Age-standardized rate	10.7	3.9
Cumulative risk 0-64 years (%)	0.8	0.3
SIR/SMR	70	43
Annual number of new cases/deaths	1149	379
Ranking of cervical cancer (all ages) †	2nd	6th
Ranking of cervical cancer (15-44 years) †	2nd	5th

Rates are per 100,000 women.

SIR/SMR: Standardized Incidence/Mortality Ratio.

†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

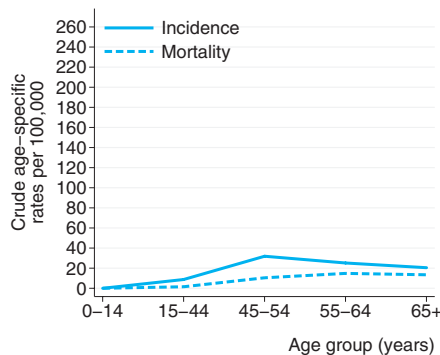


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.2
Smoking prevalence in women (%)	0.9
Fertility rate (live births per women)	2.6
Oral Contraceptive Use (%)	1.6

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology ‡	41125	8.3 (8.0-8.5)
Low-grade lesions ‡	252	67.1 (60.9-72.8)
High-grade lesions ‡	1364	78 (75.7-80.2)
Cervical cancer: any type ‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18 ‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

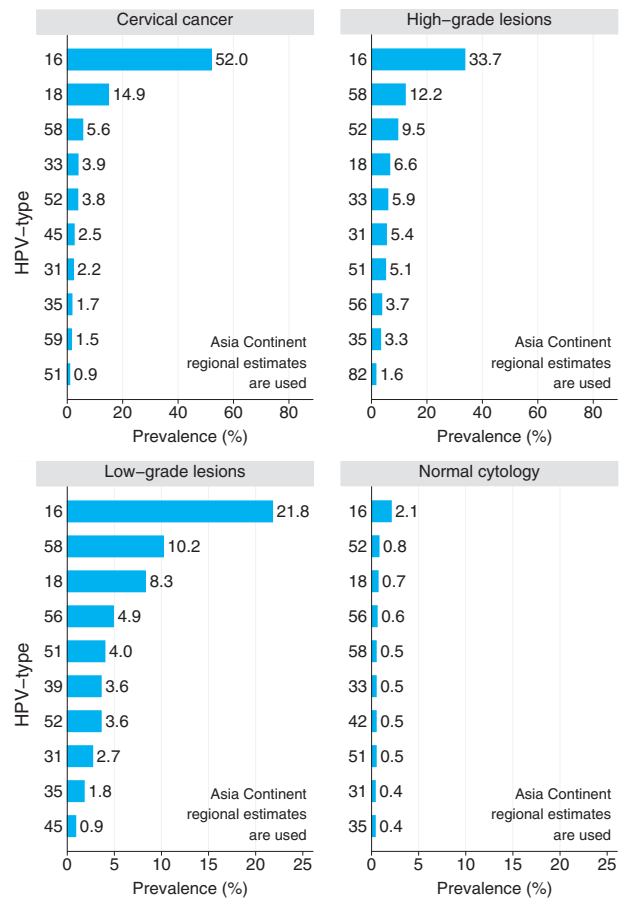


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	95
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

VANUATU



has a population of 62489 women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 14 women are diagnosed with cervical cancer and 8 die from the disease. Cervical cancer ranks as the 2nd most frequent

cancer in women in Vanuatu, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Vanuatu, but worldwide about 10.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and in Oceania Continent about 77.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	14.6	7.8
Age-standardized rate	21.7	12.1
Cumulative risk 0-64 years (%)	1.8	1
SIR/SMR	133	139
Annual number of new cases/deaths	14	8
Ranking of cervical cancer (all ages) †	2nd	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

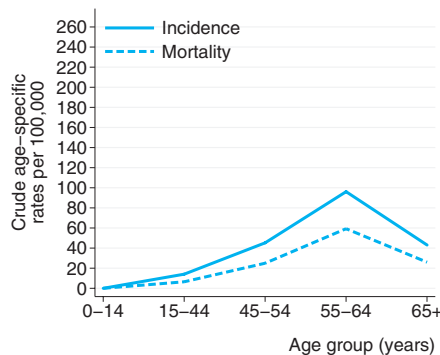


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	5
Fertility rate (live births per women)	4.9
Oral Contraceptive Use (%)	-

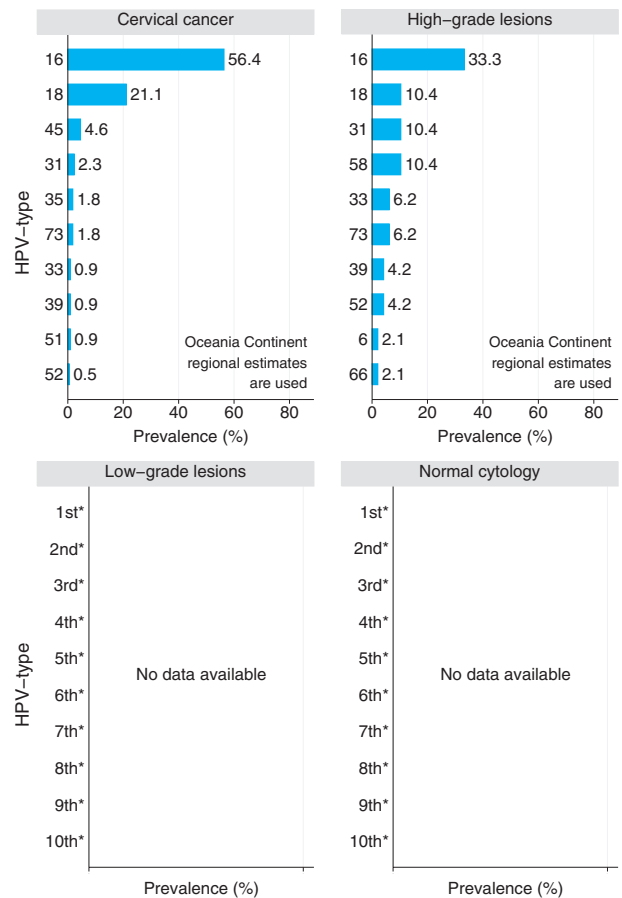
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology †	-	--
Low-grade lesions †	-	--
High-grade lesions †	48	95.8 (85.7-99.5)
Cervical cancer: any type †	450	88.4* (85.1-91.2)
Cervical cancer: HPV 16/18 †	450	77.6 (73.4-81.3)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†Oceania Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	100

DTP: Diphtheria, Tetanus and Pertussis

VENEZUELA



has a population of 9.22 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 3845 women are diagnosed with cervical cancer and 1705 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Venezuela, and the 1st most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Venezuela. However, in South America, the region Venezuela belongs to, about 14.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 67.3% of invasive cervical cancers are attributed to HPV_s 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.9	13.7
Age-standardized rate	36	16.8
Cumulative risk 0-64 years (%)	2.6	1.1
SIR/SMR	223	187
Annual number of new cases/deaths	3845	1705
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	1st	1st

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

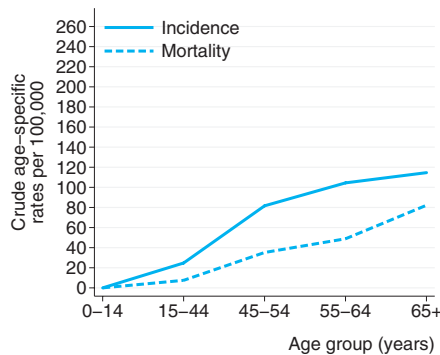


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.7
Smoking prevalence in women (%)	23.8
Fertility rate (live births per women)	2.7
Oral Contraceptive Use (%)	-

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	4354	14.3 (13.3-15.4)
Low-grade lesions†	548	79 (75.4-82.4)
High-grade lesions†	487	80.1 (76.3-83.5)
Cervical cancer: any type†	1041	91.1* (89.2-92.7)
Cervical cancer: HPV 16/18†	1041	67.3 (64.4-70.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†South America regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

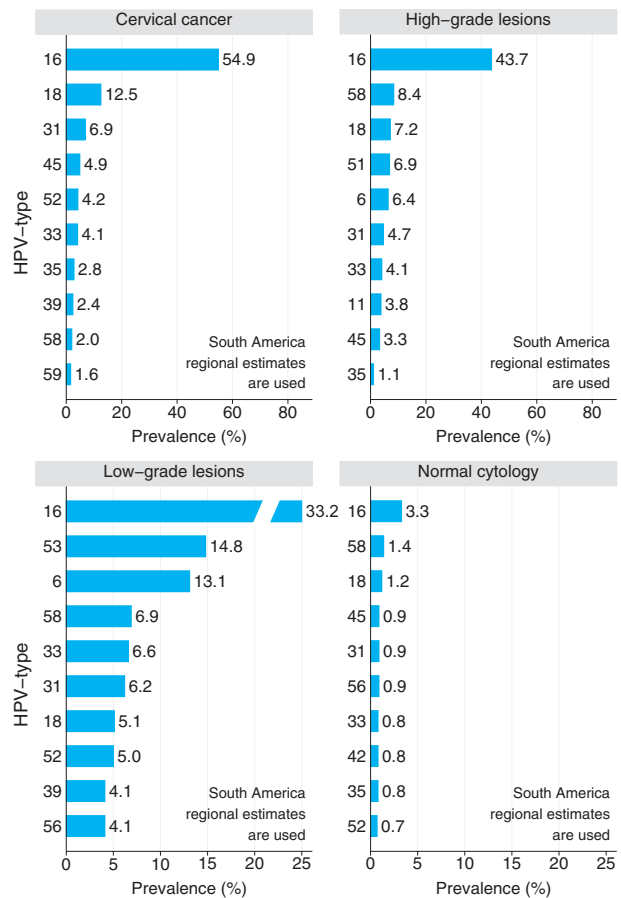


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	71
Percentage of districts with >=80% DTP3 coverage	32

DTP: Diphtheria, Tetanus and Pertussis

VIETNAM



has a population of 29.95 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 6224 women are diagnosed with cervical cancer and 3334 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Viet Nam, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 5.4% of women in the general population are estimated to harbour cervical HPV infection at a given time. Data on specific HPV-16 and 18 prevalence for Viet Nam among women with invasive cervical cancer is not yet available, but in South-Eastern Asia 71.8% of invasive cervical cancers are attributed to HPV types 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	15.5	8.3
Age-standardized rate	20.2	11.2
Cumulative risk 0-64 years (%)	1.6	0.9
SIR/SMR	115	117
Annual number of new cases/deaths	6224	3334
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

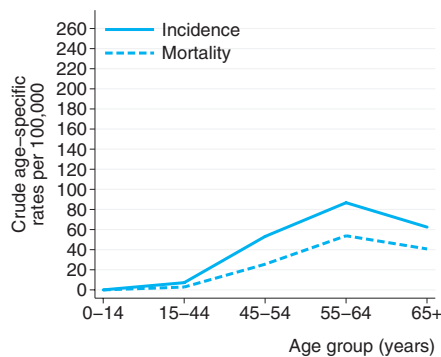


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	0.5
Smoking prevalence in women (%)	1.7
Fertility rate (live births per women)	2.7
Oral Contraceptive Use (%)	6.3

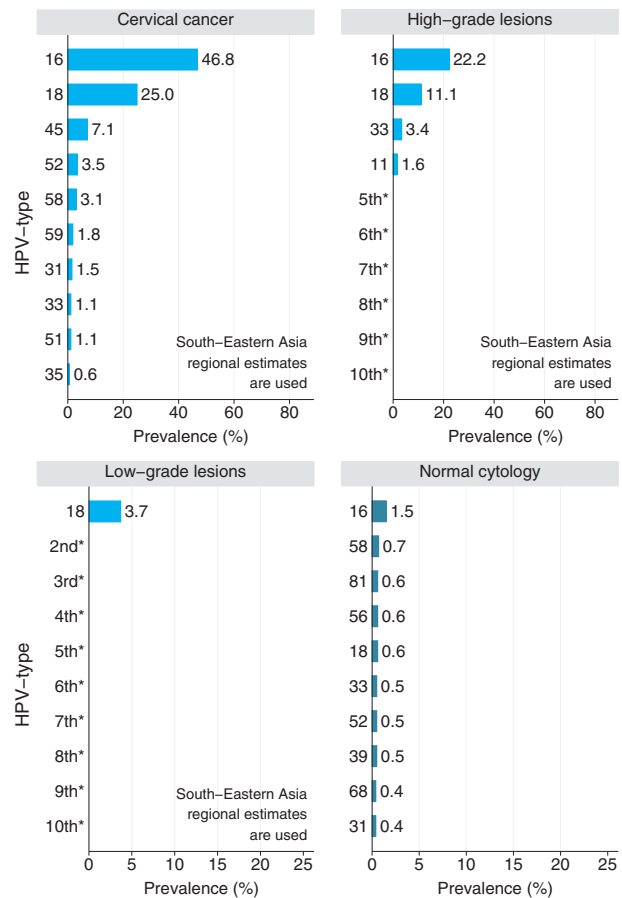
Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1897	5.4 (4.5-6.5)
Low-grade lesions†	27	33.3 (16.5-54.0)
High-grade lesions†	207	61.8 (54.8-68.5)
Cervical cancer: any type†	1090	92.1* (90.3-93.6)
Cervical cancer: HPV 16/18†	1090	71.8 (69.1-74.5)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

†South-Eastern Asia regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	94
Percentage of districts with >=80% DTP3 coverage	98

DTP: Diphtheria, Tetanus and Pertussis

YEMEN



has a population of 5.58 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 370 women are diagnosed with cervical cancer and 206 die from the disease. Cervical cancer ranks as the 3rd most

frequent cancer in women in Yemen, and the 10th most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Yemen. However, in Asia Continent about 8.3% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 66.7% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	3.7	2.1
Age-standardized rate	8	4.6
Cumulative risk 0-64 years (%)	0.7	0.4
SIR/SMR	40	44
Annual number of new cases/deaths	370	206
Ranking of cervical cancer (all ages) †	3rd	6th
Ranking of cervical cancer (15-44 years) †	10th	11th

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

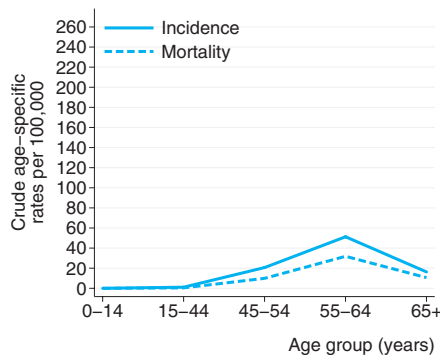


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	-
Smoking prevalence in women (%)	29
Fertility rate (live births per women)	6.7
Oral Contraceptive Use (%)	3.8

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology‡	41125	8.3 (8.0-8.5)
Low-grade lesions‡	252	67.1 (60.9-72.8)
High-grade lesions‡	1364	78 (75.7-80.2)
Cervical cancer: any type‡	5652	85.8* (84.9-86.7)
Cervical cancer: HPV 16/18‡	5652	66.7 (65.4-67.9)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.

‡Asia Continent regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

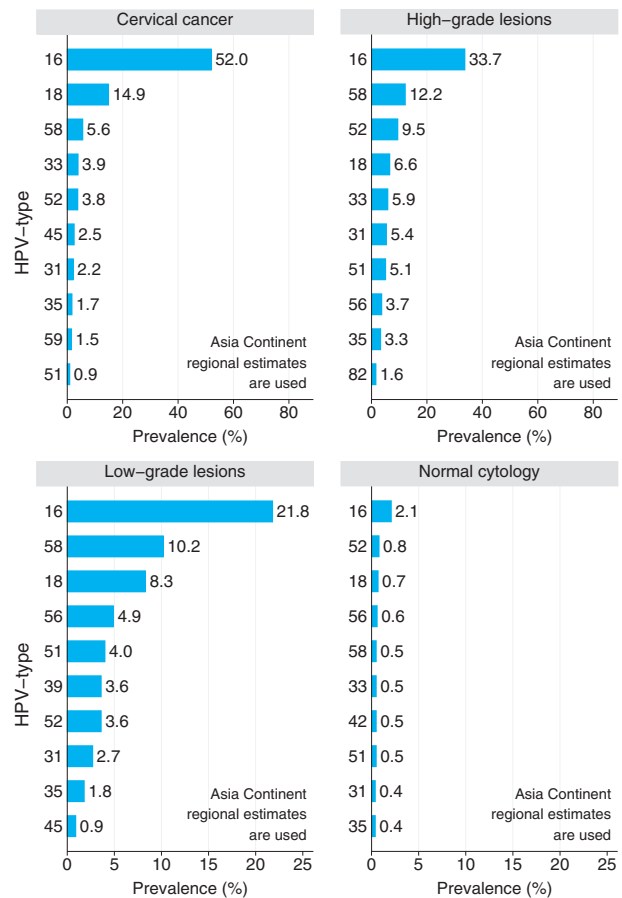


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	85
Percentage of districts with >=80% DTP3 coverage	59

DTP: Diphtheria, Tetanus and Pertussis

ZAMBIA



has a population of 3.17 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1650 women are diagnosed with cervical cancer and 1340 die from the disease. Cervical cancer ranks as the 1st most

frequent cancer in women in Zambia, and the 2nd most frequent cancer among women between 15 and 44 years of age. Data is not yet available on the HPV burden in the general population of Zambia. However, in Eastern Africa, the region Zambia belongs to, about 35.4% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 81.8% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	30.6	24.8
Age-standardized rate	53.7	44
Cumulative risk 0-64 years (%)	3.6	2.8
SIR/SMR	311	489
Annual number of new cases/deaths	1650	1340
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

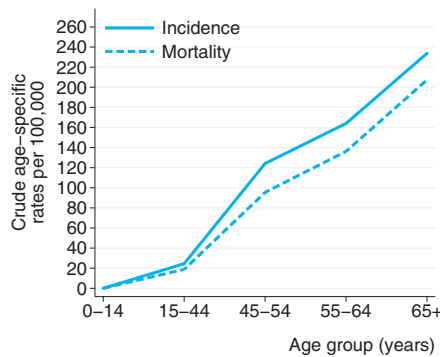


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

HIV rate (%) in adults (15-49 years)	17.0
Smoking prevalence in women (%)	1
Fertility rate (live births per women)	5.9
Oral Contraceptive Use (%)	11.9

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology†	2144	35.4 (33.4-37.5)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type†	478	96.4* (94.4-97.9)
Cervical cancer: HPV 16/18†	478	81.8 (78.0-85.2)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease

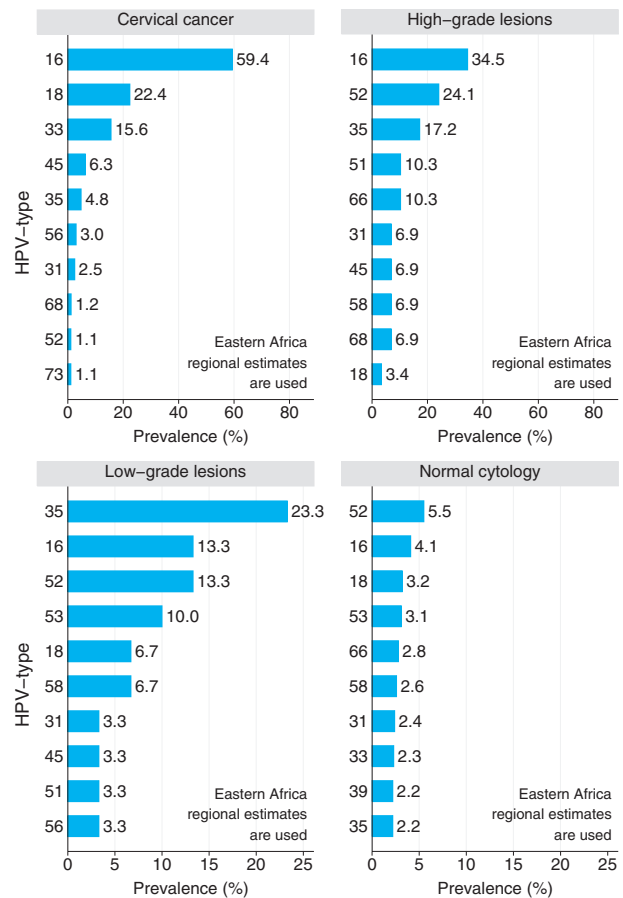


Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	80
Percentage of districts with >=80% DTP3 coverage	83

DTP: Diphtheria, Tetanus and Pertussis

ZIMBABWE



has a population of 3.96 million women ages 15 years and older who are at risk of developing cervical cancer. Current estimates indicate that every year 1817 women are diagnosed with cervical cancer and 1492 die from the disease. Cervical cancer ranks as the 1st

most frequent cancer in women in Zimbabwe, and the 2nd most frequent cancer among women between 15 and 44 years of age. About 35.0% of women in the general population are estimated to harbour cervical HPV infection at a given time, and 79.6% of invasive cervical cancers are attributed to HPVs 16 or 18.

Table 1. Burden of cervical cancer

	Incidence	Mortality
Crude rate	27.9	22.9
Age-standardized rate	52.1	43.1
Cumulative risk 0-64 years (%)	3.5	2.8
SIR/SMR	281	449
Annual number of new cases/deaths	1817	1492
Ranking of cervical cancer (all ages) †	1st	1st
Ranking of cervical cancer (15-44 years) †	2nd	2nd

Rates are per 100,000 women.
SIR/SMR: Standardized Incidence/Mortality Ratio.
†Ranking among all cancers.

Fig. 1. Age-specific incidence and mortality of cervical cancer

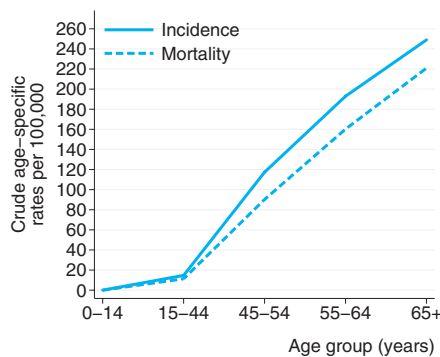


Table 2. Cervical screening coverage

No data available

Table 3. Factors contributing to cervical cancer

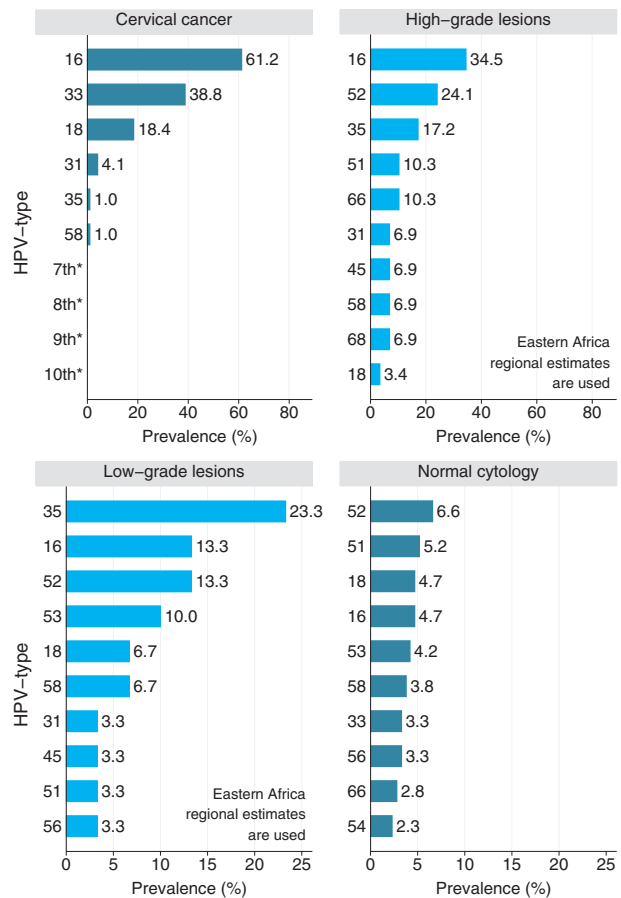
HIV rate (%) in adults (15-49 years)	20.1
Smoking prevalence in women (%)	2.2
Fertility rate (live births per women)	4.1
Oral Contraceptive Use (%)	35.5

Table 4. Burden of HPV in women with and without cervical disease

	No. tested	HPV prevalence % (95% CI)
Normal cytology	1579	35.0 (32.7-37.4)
Low-grade lesions†	30	60 (40.6-77.3)
High-grade lesions†	29	96.6 (82.2-99.9)
Cervical cancer: any type	98	96.9* (91.3-99.4)
Cervical cancer: HPV 16/18	98	79.6 (70.3-87.1)

*HPV causes virtually 100% of cases of cervical cancer. Underestimation of HPV prevalence in cervical cancer is due to the limitations of study methodologies.
†Eastern Africa regional estimate

Fig. 2. Ten most frequent HPV types in women with and without cervical disease



*No data available. No more types than shown were tested or were positive

Table 5. Relevant factors for HPV vaccine introduction

Vaccination coverage (%) in 2006 of DTP (3rd dose)	90
Percentage of districts with $\geq 80\%$ DTP3 coverage	74

DTP: Diphtheria, Tetanus and Pertussis

SECTION III. METHODS

Definitions and Sources

TERMS	
Age-standardized rate	<p>Definition: A summary measure of a rate that a population would have if it had a standard age structure. Standardization is necessary when comparing several populations that differ with respect to age because age has such a powerful influence on the risk of cancer. The most frequently used standard population is the World standard population. The calculated incidence or mortality rates are then called the World Standardized incidence and mortality rate. It is also expressed per 100,000.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>
Cervical Cancer	<p>Definition: If the high-grade precancerous cells invade deeper tissues of the cervix or to other tissues or organs, then the disease is called invasive cervical cancer or cervical cancer.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>
Cervical screening coverage	<p>Definition: The number of women who have a screening test within the recommended interval as a proportion of all women who are eligible to attend for screening.</p> <p>Source: IARC Handbooks of Cancer Prevention Vol. 10: Cervix Cancer Screening. IARC Press. Lyon, 2005.</p>
Crude rate	<p>Definition: Crude rate is calculated simply by dividing the number of new cancers or number of new cancer deaths observed during a given time period by the corresponding number of people in the population at risk. The result is usually expressed as an annual rate per 100,000 persons at risk.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>
Cumulative risk (%)	<p>Definition: The probability or risk of individuals getting the disease during a specified period. For cancer, it is expressed as the number of new born children (out of 100, or 1000) who would be expected to develop a particular cancer before the age of 65 (or 70, or 75) if they had the rates of cancer currently observed. Like the age standardized rate, it permits comparisons between populations of different age structures.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>
DTP3 Vaccination coverage	<p>Definition: The estimate of the number of people who have received the diphtheria, tetanus, and pertussis (DTP 3rd dose) vaccine.</p> <p>Source: WHO Immunization surveillance, assessment and monitoring. www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html</p>

TERMS	
Fertility rate	<p>Definition: The number of children that would be born per woman, assuming no female mortality at childbearing ages and the age-specific fertility rates of a specified country and reference period.</p> <p>Source: World Fertility Patterns, 2004; World Population Prospects: The 2004 Revision. Population database. Population Division, Department of Economic and Social Affairs, United Nations Secretariat. http://esa.un.org/unpp</p>
High-grade lesions	<p>Definition: High-grade cervical lesions are defined by a large number of precancerous cells on the surface of the cervix that are distinctly different from normal cells. They have the potential to become cancerous cells and invade deeper tissues of the cervix. These lesions may be referred to as moderate or severe dysplasia, high-grade squamous intraepithelial lesions (HSIL), cervical intraepithelial neoplasia grade 2 or 3 (CIN-2 or CIN-3), or cervical carcinoma in situ (CIS).</p>
HIV rate (%) in adults (15-49 years)	<p>Definition: The percentage of adults aged 15-49 years living with HIV in 2005.</p> <p>Source: 2006 Report on the global AIDS epidemic, UNAIDS/WHO, May 2006.</p>
HPV 16/18 prevalence in cervical cancer	<p>Definition: The proportion of subjects that tested positive for HPV 16 and/or 18 among women who were tested for HPV DNA in cervical cancer cases. This describes the proportion of cervical cancer cases that could potentially be prevented by current HPV vaccines.</p> <p>Source: See Section III.Methods for estimating HPV prevalence.</p>
HPV prevalence	<p>Definition: The proportion of subjects who tested HPV-positive according to an HPV DNA test. HPV prevalence is computed among different pre-defined groups such as women with normal cytology, women with low-grade lesions, women with high-grade lesions, or women with invasive cervical cancer.</p> <p>Source: See Section III.Methods for estimating HPV prevalence.</p>
HPV-type prevalence	<p>Definition: The proportion of subjects that tested positive for a specific HPV genotype among women who were tested for HPV DNA. HPV-type prevalence is computed among different pre-defined groups such as women with normal cytology, women with low-grade lesions, women with high-grade lesions, or women with invasive cervical cancer.</p> <p>Source: See Section III.Methods for estimating HPV prevalence.</p>
Incidence	<p>Definition: Incidence is the number of new cases arising in a given period in a specified population. This information is collected routinely by cancer registries. It can be expressed as an absolute number of cases per year or as a rate per 100,000 persons per year. The latter provides an approximation to the average risk of developing a cancer.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>
Low-grade lesions	<p>Definition: Low-grade cervical lesions are defined by early changes in size, shape, and number of abnormal cells formed on the surface of the cervix and may be referred to as mild dysplasia, low-grade squamous intraepithelial lesions (LSIL), or cervical intraepithelial neoplasia grade 1 (CIN-1).</p>
Mortality	<p>Definition: Mortality is the number of deaths occurring in a given period in a specified population. It can be expressed as an absolute number of deaths per year or as a rate per 100,000 persons per year.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARCPress, Lyon, 2004</p>

TERMS	
Normal cytology	<p>Definition: No abnormal cells are observed on the surface of their cervix upon cytology.</p> <p>Source: IARC Handbooks of Cancer Prevention Vol. 10: Cervix Cancer Screening. IARC Press. Lyon, 2005.</p>
Oral Contraceptive Use	<p>Definition: Proportion of women using oral contraceptives, also known as the pill, among those of reproductive age (15-49 years) who are married or in union.</p> <p>Source: United Nations, Department of Economic and Social Affairs, Population Division. World Contraceptive Use 2005. http://www.un.org/esa/population/publications/contraceptive2005/WCU2005.htm</p>
Percentage of districts $\geq 80\%$ DTP3 coverage	<p>Definition: The estimate of the number of districts in a country who have achieved 80% coverage of diphtheria, tetanus, and pertussis (DTP 3rd dose) vaccine.</p> <p>Source: WHO Immunization surveillance, assessment and monitoring. www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html</p>
Population	<p>Definition: The collection of people living in a given geographic area.</p> <p>Source: United Nations, Population Division. World Population Prospects - the 2004 revision. New York, 2005.</p>
Ranking of cervical cancer	<p>Definition: Cervical cancer is ranked in comparison to other cancers in women in each country according to the highest crude rates of incidence and mortality (ie. 1st ranking the highest)</p>
Smoking prevalence in women (%)	<p>Definition: The percentage of women who smoke cigarettes. The age range varies among countries, but in most is 18 and above or 15 and above.</p> <p>Source: The most recent data available are presented. World Bank's Health, Nutrition and Population data. http://devdata.worldbank.org/hnpstats</p>
Standardized Incidence Ratio	<p>Definition: The ratio of the observed to the expected new cases of cancer; the expected number is based on the age-specific rates for the country.</p> <p>Source: J. Ferlay, F. Bray, P. Pisani and D.M. Parkin. GLOBOCAN 2002: Cancer Incidence, Mortality and Prevalence Worldwide IARC CancerBase No. 5. version 2.0, IARC Press, Lyon, 2004</p>

For full details of all indicator methodologies, refer to:

<http://www.who.int/hpvcentre/statistics/dynamic/ico/methodologies.pdf>

Methods for estimating HPV prevalence

Data were gathered from specific databases created at the Institut Català d'Oncologia (for cytologically normal women) and the International Agency for Research on Cancer (for women with LSIL, HSIL and cervical cancer).

Systematic collection of published literature from peer-reviewed journals is stored in these databases. Data correspond to results from the following five reference papers as well as updated results from continuous monitoring of the literature by the HPV Information Centre:

Cytologically normal women

De Sanjosé S, Diaz M, Castellsagué X, Clifford G, Bruni L, Muñoz N, Bosch FX. Worldwide prevalence and genotype distribution of cervical human papillomavirus DNA in women with normal cytology: a meta-analysis. *Lancet Infect Dis*. 2007 July;7:453-59.

Women with low-grade cervical lesions

Clifford GM, Rana RK, Franceschi S, Smith JS, Gough G, Pimenta JM. Human papillomavirus genotype distribution in low-grade cervical lesions: comparison by geographic region and with cervical cancer. *Cancer Epidemiol Biomarkers Prev*. 2005 May;14(5):1157-64.

Women with high-grade cervical lesions and Invasive Cervical Cancer

Clifford GM, Smith JS, Plummer M, Munoz N, Franceschi S. Human papillomavirus types in invasive cervical cancer worldwide: a meta-analysis. *Br J Cancer*. 2003 Jan 13;88(1):63-73.

Clifford GM, Smith JS, Aguado T, Franceschi S. Comparison of HPV type distribution in high-grade cervical lesions and cervical cancer: a meta-analysis. *Br J Cancer*. 2003 Jul 7;89(1):101-5.

Smith JS, Lindsay L, Hoots B, Keys J, Franceschi S, Winer R, Clifford GM. Human papillomavirus type distribution in invasive cervical cancer and high-grade cervical lesions: A meta-analysis update. *Int J Cancer*. 2007 Aug 1;121(3):621-32.

Methods of estimation

HPV prevalence estimates were calculated according to meta-analysis methods as described in the above papers.

For cytologically normal women, only crude prevalence is presented in the HPV Information Centre, which differs from the estimates presented in the publication.

Estimates were calculated by means of the ratio between HPV positives and the population tested.

Disaggregation

Data are presented by diagnostic groups: women with invasive cervical cancer, women with high-grade cervical lesions, women with low-grade cervical lesions, and cytologically normal women.

Comments

According to the population studied, the sample method for HPV detection varies for normal cytology, cervical lesions, and cervical cancer. Specimens came from fresh or fixed biopsies or exfoliated cells.

The relative frequency of HPV-16/18 increases with the severity of the lesion. Worldwide, HPV 16 and 18 contribute to over 70% of all cervical cancer cases, between 41 and 67% of high-grade cervical lesions and 16–32% of low-grade cervical lesions. After HPV-16/18, the six most common HPV types are the same in all world regions, namely 31, 33, 35, 45, 52 and 58; these account for an additional 20% of cervical cancers worldwide (Clifford G et al. Vaccine 2006;24(S3):26).

In the field of benign medical conditions, HPV is also responsible for genital warts, mainly produced by infection with HPV 6 and/or 11.

Because of the limitations of the HPV DNA detection techniques and study designs used, these data should be interpreted cautiously and used only as a guidance to assess the burden of HPV infection in the population.

In the figures ranking the ten most frequent HPV types, there may be more than one HPV type with the same prevalence ranking as the 10th. However, only one HPV type is shown. For full HPV type-distribution, refer to country-specific summary reports at: <http://www.who.int/hpvcentre/statistics/dynamic/ico/SummaryReportsSelect.cfm>.

The combined prevalence of HPV 16 or 18 in women with cervical cancer is estimated adding the individual estimates. This may represent an overestimation due to co-infections with HPV 16 and 18.

References of studies included in the meta-analyses

Region/Country		Reference			
Africa Continent					
Eastern Africa	Ethiopia	Fanta BE, <i>Ethiop Med J</i> 2005; 43: 151			④
	Kenya	De Vuyst H, <i>Sex Transm Dis</i> 2003; 30: 137	①	②	③
	Mozambique	Castellsague X, <i>Lancet</i> 2001; 358: 1429 Naucner P, <i>J Gen Virol</i> 2004; 85: 2189	①		④
	Tanzania	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796 ter Meulen J, <i>Int J Cancer</i> 1992; 51: 515			④ ④
	Uganda	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796			④
	Zimbabwe	Gravitt PE, <i>Int J Cancer</i> 2002; 100: 729 Stanczuk GA, <i>Acta Obstet Gynecol Scand</i> 2003; 82: 762 Womack SD, <i>BJOG</i> 2000; 107: 33	① ①		④
Northern Africa	Algeria	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796 Hammouda D, <i>Int J Cancer</i> 2005; 113: 483	①		④ ④
	Morocco	Chaouki N, <i>Int J Cancer</i> 1998; 75: 546	①		④
Southern Africa	South Africa	Kay P, <i>J Med Virol</i> 2003; 71: 265 Pegoraro RJ, <i>Int J Gynecol Cancer</i> 2002; 12: 383 Williamson AL, <i>J Med Virol</i> 1994; 43: 231 Wright TC, <i>JAMA</i> 2000; 283: 81	①		③ ④ ④
Western Africa	Benin	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796			④
	Côte d'Ivoire	La Ruche G, <i>Int J Cancer</i> 1998; 76: 480		②	③
	Guinea	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796			④
	Mali	Bayo S, <i>Int J Epidemiol</i> 2002; 31: 202 Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796			④ ④
	Nigeria	Thomas JO, <i>Br J Cancer</i> 2004; 90: 638	①	②	
	Senegal	Astori G, <i>Intervirology</i> 1999; 42: 221 Chabaud M, <i>J Med Virol</i> 1996; 49: 259 Lin P, <i>Cancer Epidemiol Biomarkers Prev</i> 2001; 10: 1037 Xi LF, <i>Int J Cancer</i> 2003; 103: 803	① ①		③ ④ ① ② ③ ④
<p>① Normal cytology ② Low-grade lesions ③ High-grade lesions ④ Cervical cancer</p>					

References of studies included in the meta-analyses (continued)

Region/Country	Reference	①	②	③	④
	Tonon SA, Infect Dis Obstet Gynecol 1999; 7: 237		②		
Bolivia	Bosch FX, J Natl Cancer Inst 1995; 87: 796				④
Brazil	Bosch FX, J Natl Cancer Inst 1995; 87: 796				④
	Camara GN, Mem Inst Oswaldo Cruz 2003; 98: 879			③	
	Eluf-Neto J, Br J Cancer 1994; 69: 114				④
	Franco E, Rev Panam Salud Publica 1999; 6: 223		②		
	Lorenzato F, Int J Gynecol Cancer 2000; 10: 143		②	③	④
	Munoz N, Sex Transm Dis 1996; 23: 504	①			
	Rabelo-Santos SH, Mem Inst Oswaldo Cruz 2003; 98: 181				④
Chile	Bosch FX, J Natl Cancer Inst 1995; 87: 796				④
	Ferreccio C, Cancer Epidemiol Biomarkers Prev 2004; 13: 2271	①			
Colombia	Bosch FX, Cancer Epidemiol Biomarkers Prev 1993; 2: 415			③	
	Bosch FX, J Natl Cancer Inst 1995; 87: 796				④
	Molano M, Br J Cancer 2002; 87: 1417		②		
	Molano M, Br J Cancer 2002; 87: 324	①			
	Munoz N, Int J Cancer 1992; 52: 743				④
	Munoz N, Sex Transm Dis 1996; 23: 504	①			
Paraguay	Rolon PA, Int J Cancer 2000; 85: 486	①			④
	Tonon SA, Infect Dis Obstet Gynecol 1999; 7: 237		②		
Peru	Santos C, Br J Cancer 2001; 85: 966	①			④
Asia Continent					
Eastern Asia	China	Belinson J, Gynecol Oncol 2001; 83: 439	①		
		Chan MK, Gynecol Oncol 1996; 60: 217			③
		Chan PK, J Med Virol 1999; 59: 232		②	③
		Chen SL, Cancer 1993; 72: 1939			④
		Chen TM, Int J Cancer 1994; 57: 181			④
		Gao YE, Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao (Shanghai) 2003; 35: 1029			④
		Ho CM, Gynecol Oncol 2005; 99: 615			④
		Ho CM, Gynecol Oncol 2006; 102: 54		③	
		Huang HJ, Int J Gynecol Cancer 2004; 14: 639			④
		Huang LW, J Clin Virol 2004; 29: 271			④
		Huang S, Int J Cancer 1997; 70: 408			④
		Lai HC, Int J Cancer 1999; 84: 553			④
		Lai HC, Int J Cancer 2003; 103: 221		③	
		Liaw KL, Int J Cancer 1995; 62: 565	①		
		Lin H, Gynecol Oncol 2005; 96: 84		③	④
		Lin QQ, Int J Cancer 1998; 75: 484			④
		Liu J, Gynecol Oncol 2004; 94: 803			④
		Lo KW, Gynecol Obstet Invest 2001; 51: 202			④
		Lo KW, Int J Cancer 2002; 100: 327			④
		Peng HQ, Int J Cancer 1991; 47: 711			④
		Stephen AL, Int J Cancer 2000; 86: 695			④
		Wu CH, Sex Transm Dis 1994; 21: 309		③	
		Wu Y, J Clin Virol 2006; 35: 264			④
		Yang YC, Gynecol Oncol 1997; 64: 59			④
		Yang YY, J Microbiol Immunol Infect 2004; 37: 282			④
		Yu MY, Int J Cancer 2003; 105: 204			④
	Japan	Asato T, J Infect Dis 2004; 189: 1829	①		④
		Fujinaga Y, J Gen Virol 1991; 72 (Pt 5): 1039			④
		Harima Y, Int J Radiat Oncol Biol Phys 2002; 52: 1345			④
		Ichimura H, Int J Clin Oncol 2003; 8: 322		③	
		Ishi K, J Obstet Gynaecol Res 2004; 30: 380	①		
		Ishikawa H, Cancer 2001; 91: 80			④
		Kanao H, Cancer Lett 2004; 213: 31			④
		Kashiwabara K, Acta Pathol Jpn 1992; 42: 876			④
		Maki H, Jpn J Cancer Res 1991; 82: 411			④
		Nagai Y, Gynecol Oncol 2000; 79: 294		③	
		Nakagawa H, Anticancer Res 2002; 22: 1655			④
		Nakagawa S, Cancer 1996; 78: 1935			④
		Nawa A, Cancer 1995; 75: 518			④
		Niwa K, Oncol Rep 2003; 10: 1437		③	
		Saito J, Gynecol Obstet Invest 2000; 49: 190			④

①Normal cytology

②Low-grade lesions

③High-grade lesions

④Cervical cancer

References of studies included in the meta-analyses (continued)

Region/Country	Reference	①	②	③	④
	Saito J, <i>Int J Gynaecol Obstet</i> 1995; 51: 43	①			
	Sasagawa T, <i>Cancer Epidemiol Biomarkers Prev</i> 2001; 10: 45	①		③	④
	Sasagawa T, <i>Jpn J Cancer Res</i> 1997; 88: 376	①			
	Tsuda H, <i>Gynecol Oncol</i> 2003; 91: 476			③	④
	Yamakawa Y, <i>Gynecol Oncol</i> 1994; 53: 190				④
	Yoshida T, <i>Cancer</i> 2004; 102: 100			③	
	Yoshikawa H, <i>Jpn J Cancer Res</i> 1991; 82: 524			③	
Republic of Korea	An HJ, <i>Cancer</i> 2003; 97: 1672	①		③	④
	An HJ, <i>Mod Pathol</i> 2005; 18: 528				④
	Cho NH, <i>Am J Obstet Gynecol</i> 2003; 188: 56	①	②	③	④
	Hwang TS, <i>Gynecol Oncol</i> 2003; 90: 51		②	③	④
	Kim CJ, <i>Gynecol Oncol</i> 2003; 89: 210			③	
	Kim KH, <i>Yonsei Med J</i> 1995; 36: 412				④
	Lee SA, <i>Cancer Lett</i> 2003; 198: 187	①			
	Oh YL, <i>Cytopathology</i> 2001; 12: 75			③	
	Shin HR, <i>Int J Cancer</i> 2003; 103: 413	①			
South-Eastern Asia	Indonesia				
	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796				④
	Schellekens MC, <i>Gynecol Oncol</i> 2004; 93: 49				④
	Malaysia				
	Yadav M, <i>Med J Malaysia</i> 1995; 50: 64				④
	Philippines				
	Ngelangel C, <i>J Natl Cancer Inst</i> 1998; 90: 43	①			④
	Thailand				
	Bhattarakosol P, <i>J Med Assoc Thai</i> 1996; 79 Suppl 1: S56				④
	Bhattarakosol P, <i>J Med Assoc Thai</i> 2002; 85 Suppl 1: S360		②	③	
	Chichareon S, <i>J Natl Cancer Inst</i> 1998; 90: 50	①			④
	Ekalaksananan T, <i>J Obstet Gynaecol Res</i> 2001; 27: 117			③	
	Limpaiboon T, <i>Southeast Asian J Trop Med Public Health</i> 2000; 31: 66			③	
	Settheetham-Ishida W, <i>Microbiol Immunol</i> 2005; 49: 417				④
	Siritantikorn S, <i>Southeast Asian J Trop Med Public Health</i> 1997; 28: 707				④
	Sukvirach S, <i>J Infect Dis</i> 2003; 187: 1246	①			
	Viet Nam				
	Pham TH, <i>Int J Cancer</i> 2003; 104: 213	①			
Southern Asia	India				
	Franceschi S, <i>Br J Cancer</i> 2005; 92: 601	①			
	Franceschi S, <i>Int J Cancer</i> 2003; 107: 127				④
	Munirajan AK, <i>Gynecol Oncol</i> 1998; 69: 205				④
	Nagpal JK, <i>Eur J Clin Invest</i> 2002; 32: 943			③	
	Sankaranarayanan R, <i>Int J Cancer</i> 2004; 112: 341	①			
	Sowjanya AP, <i>BMC Infect Dis</i> 2005; 5: 116				④
	Iran				
	Hamkar R, <i>East Mediterr Health J</i> 2002; 8: 805				④
	Mortazavi S, <i>Asian Pac J Cancer Prev</i> 2002; 3: 69				④
Europe Continent					
Eastern Europe	Czech Republic				
	Tachezy R, <i>Hum Genet</i> 1999; 105: 564			③	
	Tachezy R, <i>J Med Virol</i> 1999; 58: 378		②		④
	Hungary				
	Konya J, <i>J Med Virol</i> 1995; 46: 1				④
	Szoke K, <i>J Med Virol</i> 2003; 71: 585			③	
	Poland				
	Bosch FX, <i>J Natl Cancer Inst</i> 1995; 87: 796				④
	Dybikowska A, <i>Oncol Rep</i> 2002; 9: 871				④
	Liss J, <i>Ginekol Pol</i> 2002; 73: 740				④
	Russian Federation				
	Alexandrova YN, <i>Cancer Lett</i> 1999; 145: 43	①			
	Kleter B, <i>J Clin Microbiol</i> 1999; 37: 2508				④
Northern Europe	Denmark				
	Hording U, <i>APMIS</i> 1997; 105: 313				④
	Kjaer SK, <i>BMJ</i> 2002; 325: 572	①			
	Kjaer SK, <i>Cancer Epidemiol Biomarkers Prev</i> 1997; 6: 799	①			
	Sebbelov AM, <i>Microbes Infect</i> 2000; 2: 121				④
	Sebbelov AM, <i>Res Virol</i> 1994; 145: 83			③	
	Svare EI, <i>Eur J Cancer</i> 1998; 34: 1230	①			
	Finland				
	Iwasawa A, <i>Cancer</i> 1996; 77: 2275				④
	Ireland				
	Butler D, <i>J Pathol</i> 2000; 192: 502			③	
	Murphy N, <i>J Clin Pathol</i> 2003; 56: 56			③	

①Normal cytology

②Low-grade lesions

③High-grade lesions

④Cervical cancer

References of studies included in the meta-analyses (continued)

Region/Country	Reference	1	2	3	4
	O'Leary JJ, <i>J Clin Pathol</i> 1998; 51: 576			3	4
	Skyldberg BM, <i>Mod Pathol</i> 1999; 12: 675				4
Latvia	Silins I, <i>Gynecol Oncol</i> 2004; 93: 484				4
Lithuania	Gudleviciene Z, <i>Medicina (Kaunas)</i> 2005; 41: 910			3	4
Norway	Karlsen F, <i>J Clin Microbiol</i> 1996; 34: 2095				4
	Kraus I, <i>Br J Cancer</i> 2004; 90: 1407			3	
Sweden	Andersson S, <i>Acta Obstet Gynecol Scand</i> 2003; 82: 960				4
	Andersson S, <i>Br J Cancer</i> 2005; 92: 2195			3	
	Andersson S, <i>Eur J Cancer</i> 2001; 37: 246				4
	Graflund M, <i>Int J Gynecol Cancer</i> 2004; 14: 896				4
	Hagmar B, <i>Med Oncol Tumor Pharmacother</i> 1992; 9: 113				4
	Kalantari M, <i>Hum Pathol</i> 1997; 28: 899		2	3	
	Skyldberg BM, <i>Mod Pathol</i> 1999; 12: 675				4
	Wallin KL, <i>N Engl J Med</i> 1999; 341: 1633				4
	Ylitalo N, <i>Cancer Res</i> 2000; 60: 6027	1			
	Zehbe I, <i>J Pathol</i> 1997; 181: 270				4
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1 Normal cytology

2 Low-grade lesions

3 High-grade lesions

4 Cervical cancer

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① Normal cytology		② Low-grade lesions		③ High-grade lesions	
				④ Cervical cancer	

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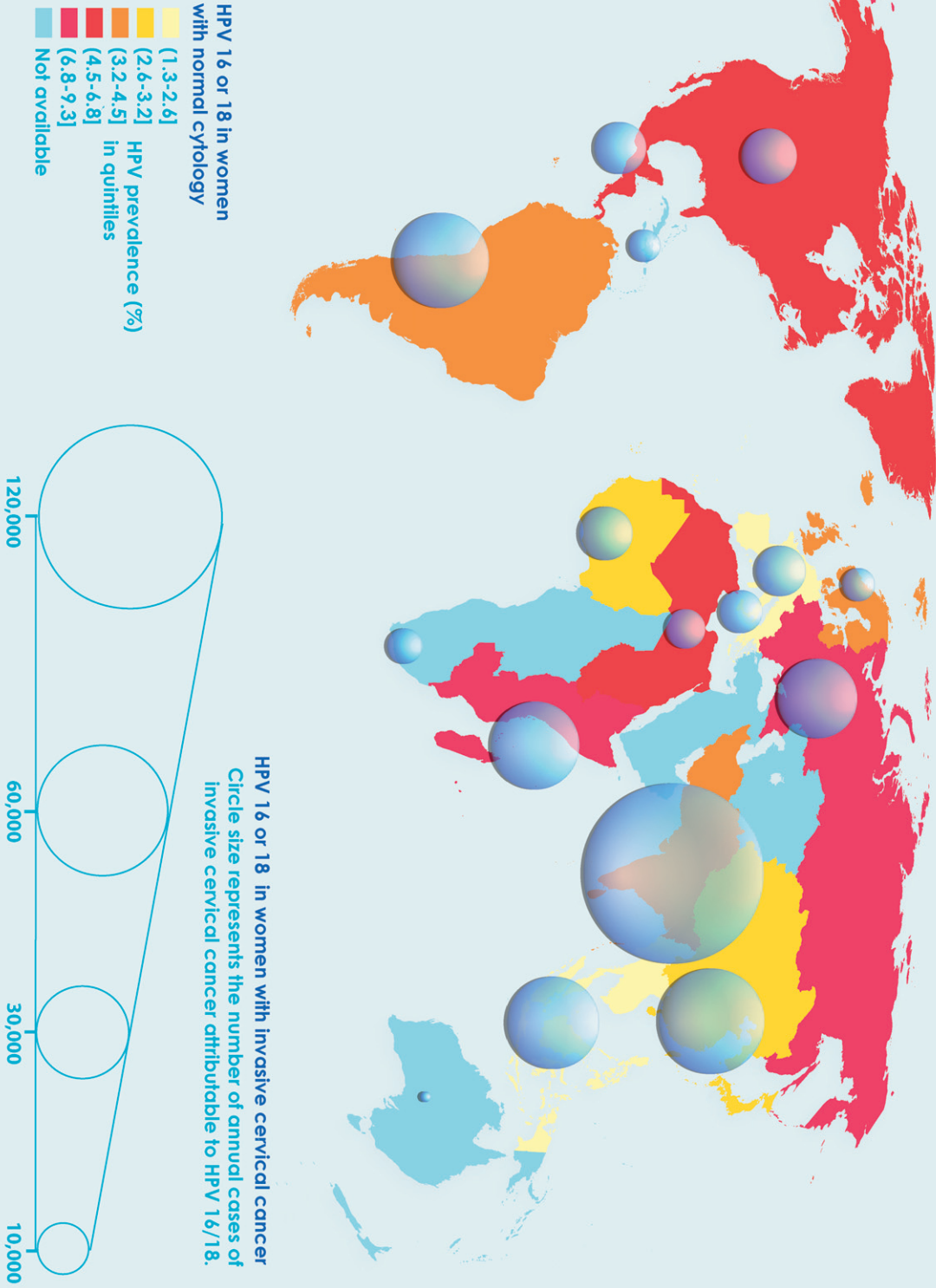
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