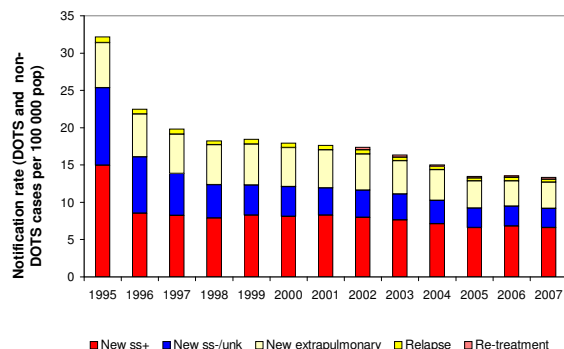


## Iran

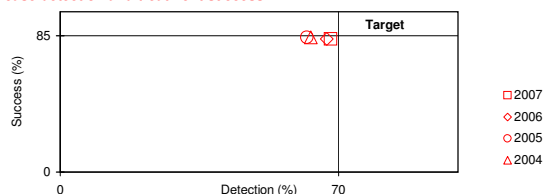
## Surveillance and epidemiology

|  |        |                |
|--|--------|----------------|
| <b>Population</b> (thousands) <sup>a</sup>                   | 71 208 |                |
| <b>Estimates of epidemiological burden, 2007<sup>b</sup></b> | All    | In HIV+ people |
| <b>Incidence</b>   |        |                |
| All forms of TB (thousands of new cases per year)            | 15     | 0.5            |
| All forms of TB (new cases per 100 000 pop/year)             | 22     | 0.7            |
| Rate of change in incidence rate (%), 2006–2007              | -4.4   | -0.6           |
| New ss+ cases (thousands of new cases per year)              | 6.9    | 0.2            |
| New ss+ cases (per 100 000 pop/year)                         | 9.7    | 0.2            |
| HIV+ incident TB cases (% of all TB cases)                   | 3.1    | –              |
| <b>Prevalence</b>  |        |                |
| All forms of TB (thousands of cases)                         | 20     | 0.2            |
| All forms of TB (cases per 100 000 pop)                      | 27     | 0.3            |
| 2015 target for prevalence (cases per 100 000 pop)           | 25     | –              |
| <b>Mortality</b>   |        |                |
| All forms of TB (thousands of deaths per year)               | 1.8    | 0.1            |
| All forms of TB (deaths per 100 000 pop/year)                | 2.6    | 0.2            |
| 2015 target for mortality (deaths per 100 000 pop/year)      | 2.1    | –              |
| <b>Multidrug-resistant TB (MDR-TB)</b>                       |        |                |
| MDR-TB among all new TB cases (%)                            | 5.0    | –              |
| MDR-TB among previously treated TB cases (%)                 | 48     | –              |

## Case notifications



## New ss+ case detection and treatment success

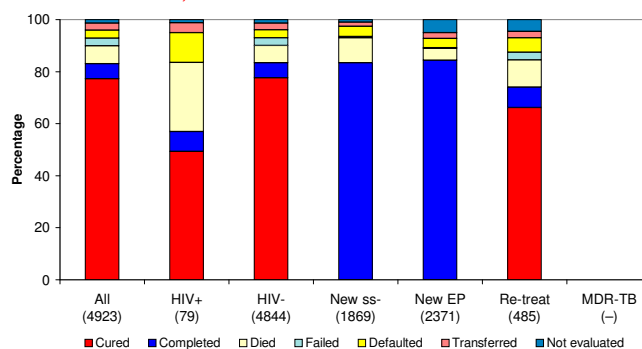


Note: case detection rate is for the year indicated. The associated treatment success rate is for one year prior.

## Total notifications, 2007

|  |     |
|--|-----|
| Notified new and relapse cases (thousands)             | 9.3 |
| Notified new and relapse cases (per 100 000 pop/yr)    | 13  |
| Notified new ss+ cases (thousands)                     | 4.7 |
| Notified new ss+ cases (per 100 000 pop/yr)            | 6.6 |
| as % of new pulmonary cases                            | 72  |
| sex ratio (male/female)                                | 1.0 |
| DOTS case detection rate (% of estimated new ss+)      | 68  |
| Notified new extrapulmonary cases (thousands)          | 2.5 |
| as % of notified new cases                             | 28  |
| Notified new ss+ cases in children (<15yr) (thousands) | 0.1 |
| as % of notified new ss+ cases                         | 1.1 |

## Treatment outcomes, 2006 cohorts



Note: Numbers under the bars are the numbers of patients included in the cohort.

|   | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|------|------|------|------|------|------|------|------|
| DOTS coverage (%)                                   | 96   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Notification rate (new & relapse cases/100 000 pop) | 18   | 18   | 17   | 16   | 15   | 13   | 13   | 13   |
| % notified new & relapse cases reported under DOTS  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Notification rate (new ss+ cases/100 000 pop)       | 8.1  | 8.3  | 8.0  | 7.6  | 7.1  | 6.6  | 6.8  | 6.6  |
| % notified new ss+ cases reported under DOTS        | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Case detection rate (all new cases, %)              | 56   | 57   | 57   | 57   | 57   | 54   | 57   | 59   |
| Case detection rate (new ss+ cases, %)              | 59   | 61   | 61   | 62   | 63   | 62   | 67   | 68   |
| Treatment success (new ss+ patients, %)             | 85   | 85   | 85   | 84   | 84   | 83   | 83   | –    |
| Re-treatment success (ss+ patients, %)              | 76   | 76   | 74   | 77   | 74   | 76   | 74   | –    |

Note: notification, case detection and treatment success rates are for the whole country (i.e. DOTS and non-DOTS areas combined).

## DOTS expansion and enhancement

## Overview of services for diagnosis of TB and treatment of patients

|   |   |
|---|---|
| Description of basic management unit                      | –   |
| Number of units (DOTS/total), 2007                        | 355/ 355  |
| Location of NTP services                                  |   |
| Rural   | –   |
| Urban   | –   |
| NTP services part of general primary health-care network? | Yes   |
| Location where TB diagnosed                               |   |
| Rural   | –   |
| Urban   | –   |
| Diagnosis free of charge?                                 | Yes (all suspects)                                  |
| Treatment supervised?                                     | All patients in all units                           |
| Intensive phase   | Health-care worker, Community member, Family member |
| Continuation phase  | Health-care worker, Community member, Family member |
| Category I regimen  | 2HRZE / 4(HR)                                       |
| Treatment free of charge                                  | All patients in all units                           |
| External review missions                                  | last: –<br>next: –                                  |

## Political commitment

|  |     |                    |
|--|-----|--------------------|
| National strategic plan?                         | Yes | (2008 – 2010)      |
| Mechanism for national interagency coordination? | Yes | (established 2001) |
| National Stop TB Partnership?                    | Yes | (established 2004) |

## Financial indicators, 2009 (see final page for detailed presentation)

|   | % |
|---|---|
| Government contribution to NTP budget (incl loans)            | – |
| Government contribution to total cost TB control (incl loans) | – |
| Government health spending used for TB control                | – |
| NTP budget funded   | – |

## Per capita health financial indicators, 2009

|   | US\$ |
|---|------|
| NTP budget per capita                           | –    |
| Total costs for TB control per capita           | –    |
| Funding gap per capita                          | –    |
| Government health expenditure per capita (2005) | –    |
| Total health expenditure per capita (2005)      | –    |

**DOTS expansion and enhancement (continued)****Quality-assured bacteriology**

National reference laboratory? Yes

All TB laboratories performing EQA of smear microscopy or DST under the supervision of the National Reference Laboratory

| Laboratories performing surveillance of smear microscopy of CSF under the supervision of the National Reference Laboratory |        |                          |     |             |    |         |                            |     |        |                             |     |             |   |   |   |
|--|--------|--------------------------|-----|-------------|----|---------|----------------------------|-----|--------|-----------------------------|-----|-------------|---|---|---|
|  | Smear  |                          |     |             |    | Culture |                            |     |        |                             | DST |             |   |   |   |
|  | Number | per 100 000 <sup>a</sup> | EQA | % adeq perf |    | Number  | per 5 000 000 <sup>a</sup> |     | Number | per 10 000 000 <sup>a</sup> | EQA | % adeq perf |   |   |   |
| 2007   | 314    | 0.4                      | 0   | 314         | 93 | %       | 27                         | 1.9 | 0      | 2                           | 0.3 | 0           | 0 | – | % |
| 2008   | 314    | 0.4                      | 0   | 314         | –  |         | 27                         | 1.9 | 0      | 2                           | 0.3 | 0           | – | – |   |

Note: for routine diagnosis, there should be at least one laboratory providing smear microscopy per 100 000 population. To provide culture for diagnosis of paediatric, extrapulmonary and ss-/HIV+ TB, as well as DST for re-treatment and failure cases, most countries will need one culture facility per 5 million population and one DST facility per 10 million population. EQA column shows number of labs for which EQA was done. Adeq perf; adequate performance for microscopy based on results of EQA.

**System for managing drug supplies and laboratory equipment**

|   | Central level |      |      | Peripheral level |      |      |
|---|---------------|------|------|------------------|------|------|
|   | 2005          | 2006 | 2007 | 2005             | 2006 | 2007 |
| Stock-outs of laboratory supplies?      | –             | No   | No   | –                | No   | No   |
| Stock-outs of first-line anti-TB drugs? | No            | No   | No   | No               | No   | No   |

**Monitoring and evaluation system, and impact measurement**

|   |       |                    |       | Burden and impact assessment                   |                          | last | next |
|---|-------|--------------------|-------|--|--------------------------|------|------|
| NTP publishes annual report?              | Yes   | (since 2004)       |       | In-depth analysis of routine surveillance data | Yes                      | 2003 | 2012 |
| % of BMUs reporting to next level in 2007 |       |                    |       | Prevalence of disease survey                   | Yes, sub-national survey | 1999 | –    |
| Case-finding                              | 100 % | Treatment outcomes | 100 % | Prevalence of infection survey                 | No                       | –    | –    |
|   |       |                    |       | Drug resistance survey                         | –                        | –    | –    |
|   |       |                    |       | Mortality survey                               | No                       | –    | –    |
|   |       |                    |       | Analysis of vital registration data            | No                       | –    | –    |

**Development of human resources, 2007**

Number of TB posts 0 Percentage of TB posts filled 0 %

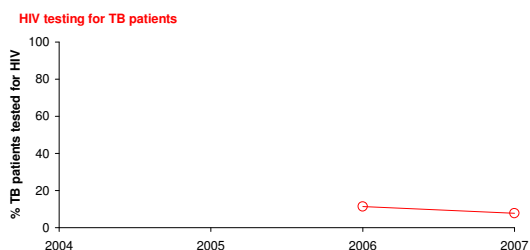
Note: percentage calculation restricted to categories of posts for which both the total number of posts and the number of posts filled reported.

**MDR-TB, TB/HIV and other challenges**

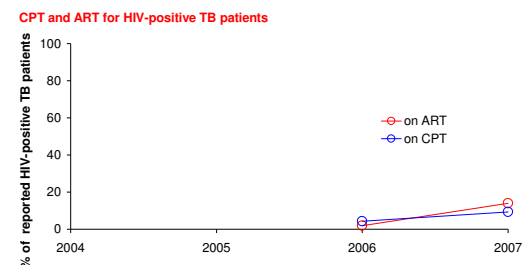
|                                      | 2005                               | 2006      | 2007      |
|--------------------------------------|------------------------------------|-----------|-----------|
|                                      | number (% of estimated ss+ MDR-TB) |           |           |
| Estimated incidence of ss+ MDR cases | 761                                | 738       | 715       |
| Diagnosed and notified               | 27 (3.5)%                          | 32 (4.3)% | 43 (6.0)% |
| Registered for treatment             | 24 (3.2)%                          | 32 (4.3)% | 35 (4.9)% |
| GLC                                  | –                                  | –         | –         |
| non-GLC                              | 24                                 | 32        | 35        |

**Detection and treatment of HIV in TB patients, 2007**

|  |     |
|--|-----|
| TB patients for whom the HIV test result was known | 732 |
| as % of all notified TB patients                   | 7.7 |
| TB patients with positive HIV test                 | 171 |
| as % of all estimated HIV+ TB cases                | 35  |
| HIV+ TB patients started or continued on CPT       | 16  |
| as % of HIV+ TB patients notified                  | 9.4 |
| HIV+ TB patients started or continued on ART       | 24  |
| as % of HIV+ TB patients notified                  | 14  |

**Screening for TB in HIV-positive patients, 2007**

|  |       |
|--|-------|
| HIV+ patients in HIV care or ART register                    | 1 888 |
| Screened for TB  | –     |
| as % of HIV+ patients in HIV care or ART register            | –     |
| Started on TB treatment                                      | –     |
| as % of HIV+ patients in HIV care or ART register            | –     |
| Started on IPT   | –     |
| as % of HIV+ patients without TB in HIV care or ART register | –     |

**High-risk groups, 2007**

|  |       |
|--|-------|
| Number of close contacts of ss+ TB patients screened | 9 938 |
| Number of TB cases identified among contacts         | 47    |
| % of contacts with TB                                | 0     |
| Contacts started on IPT                              | –     |
| % of contacts without TB on IPT                      | –     |

**Contributing to health system strengthening****Practical Approach to Lung Health (PAL), 2007**

Number and proportion of health facilities with PAL services

Number of health-care facilities providing PAL services 0 As % of total number of health-care facilities –

**Engaging all care providers****Public-Public and Public-Private approaches (PPM), 2007**

|   |  |                     |         |
|---|--|---------------------|---------|
| Number of Providers collaborating with the NTP <sup>2</sup> |  | % total notified TB |         |
|   | Number collaborating (total number of providers) | Diagnosed           | Treated |
| Public sector   | 500 (500)  | 46                  | 46      |
| Private sector  | – (–)  | 22                  | 22      |

**International Standards for Tuberculosis Care (ISTC)**

ISTC endorsed by professional organizations? –

by which organizations:

0

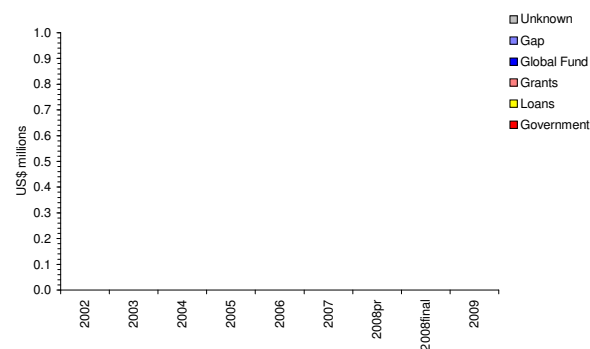
ISTC included in medical curriculum? Yes

**Enabling and promoting research****Programme-based operational research, 2007**

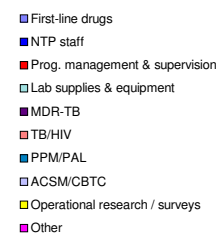
Operational research budget (% of NTP budget) – %

## Financing

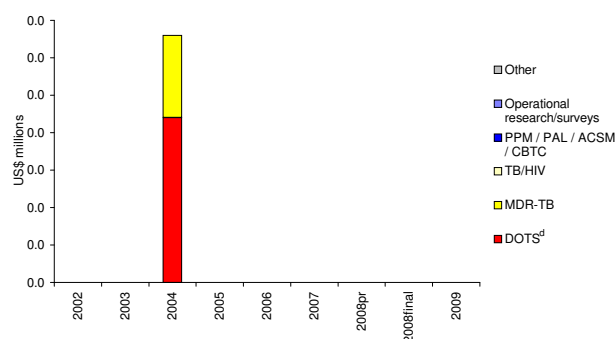
## NTP budget by source of funding



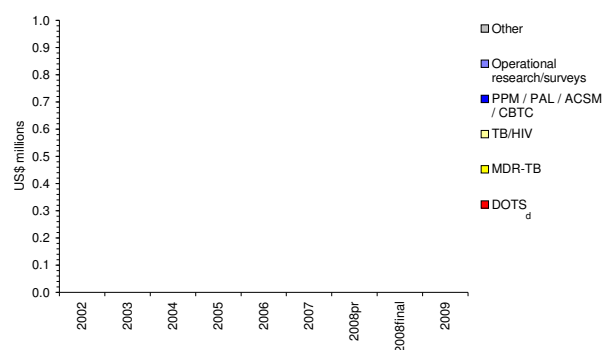
## NTP budget line items in 2009



## NTP budget by line item



## NTP funding gap by line item



## Footnotes

a World population prospects – the 2006 revision. New York, United Nations Population Division, 2007.

b For data sources and analytical methods, see annexes 2 and 3 of *Global tuberculosis control: epidemiology, strategy, financing: WHO report 2009*. Geneva, World Health Organization, 2009 (WHO/HTM/TB/2009.411). The report is also available on-line at [www.who.int/tb/publications/global\\_report](http://www.who.int/tb/publications/global_report).

c For a definition of public and private sector and the categories of provider considered in each case, see Chapter 2 of the above-mentioned report and the 2008 WHO TB data collection form.

d DOTS includes the following components: first-line drugs, NTP staff, programme management and supervision, and laboratory supplies and equipment.