

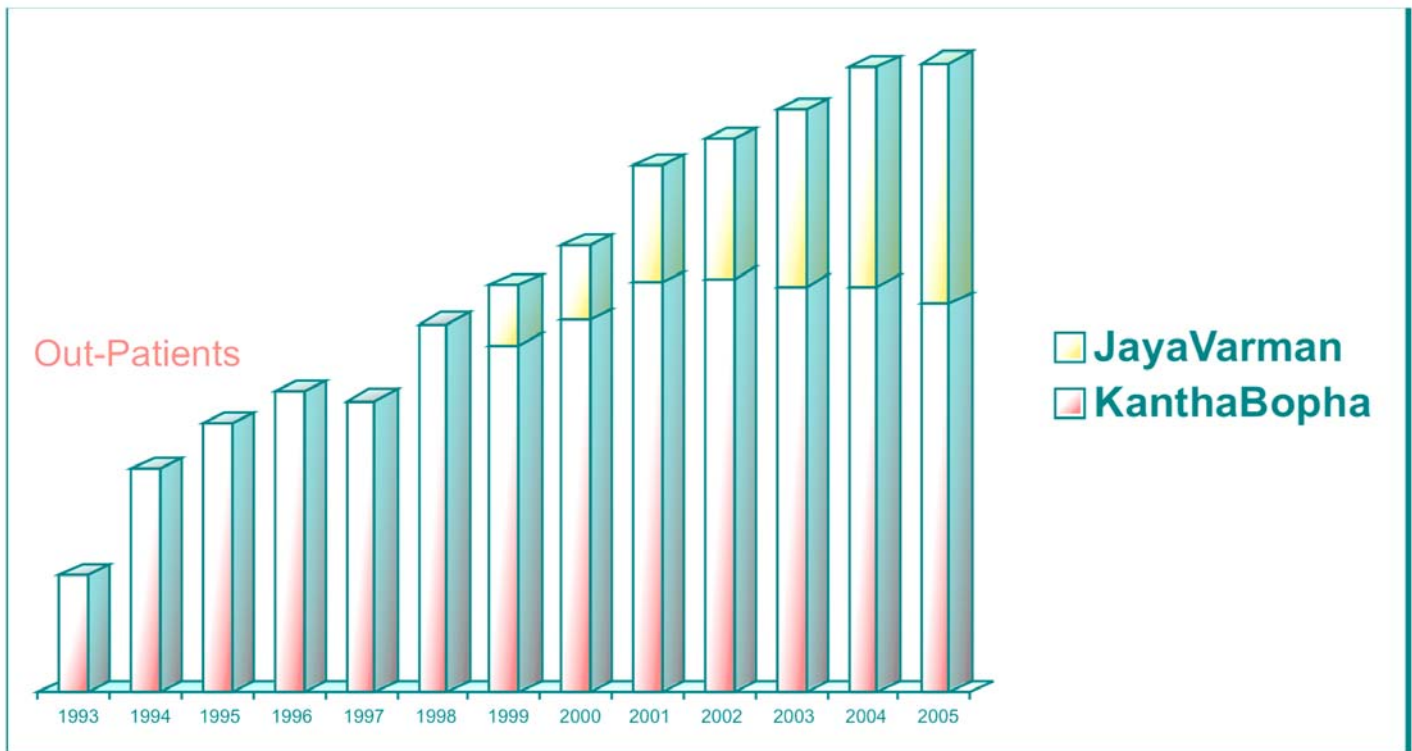
Kantha Bopha Hospital - Phnom Penh

Jaya Varman VII Hospital - Siem Reap

Continuous Activities

Yr. 2005





Need more spaces !

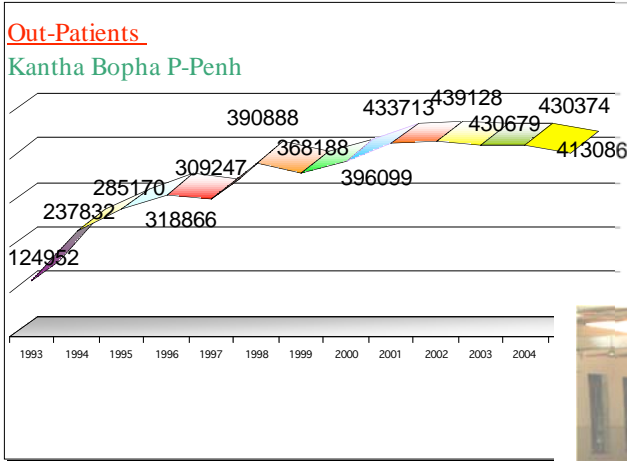
# 1. Out-Patients Department



OPD at Kantha Bopha 1 is always over crowded



Parents must stand in lines in the very early morning to get number

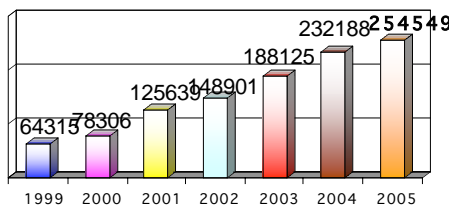


**785.958**

Total amount at the OPD by both, Kb + Jaya hospitals during Yr 2005 including TB Control and the Maternity

A huge number figuring how much staff works hard

Out-Patients  
Jayavarman Siemreap



Day by day at JayavaramanVII Hospital in SiemReap, patients amount are rapidly increasing since the opening.

**Amount of TB control and maternity consult adding on the OPD activities**

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<b>Kantha Bopha</b>	15457	23802	18789	20924	24606	22831	24069	21686	17667	15036
<b>Jayavarman</b>				3944	10268	9668	11791	13000	13382	24071
<b>Maternity</b>						3717	30278	42772	60924	79216

## 2. Hospitalisation Activities



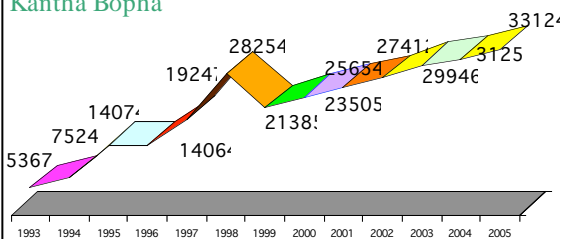
In the ICU : there are always two or three severe patients sharing the same bed.



Permanently full activities in each station.

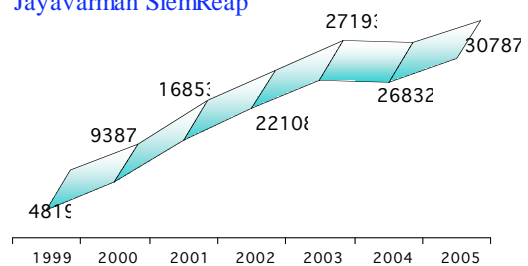
### In-Patient

#### Kantha Bopha



### In-Patient

#### Jayavarman SiemReap



No more spaces to receive increasing in-Patients and most of them are severe because of a shortage of space. The mildly sick patients have been delayed. Need more spaces, need more beds.

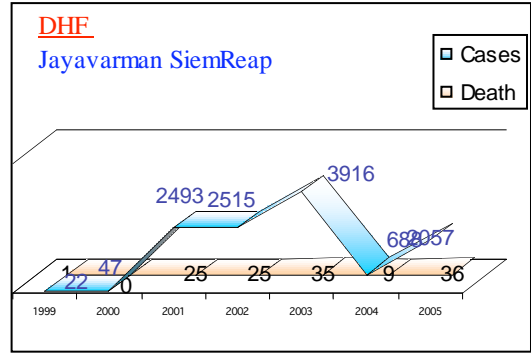
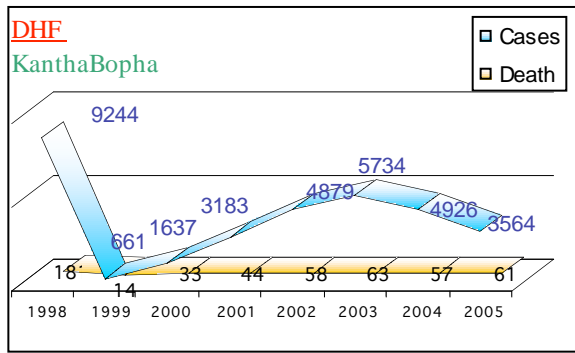
The bed occupation rate in July 2005 is over to 193% in Kantha Bopha I and 99,8% in Kantha Bopha II.

In Jayavaraman VII Hospital in SiemReap since the opening in 1999 the number of patients are rapidly going up.

Numerous beds have been added, 456 for children and 79 for the deliveries. Without this effort the situation will be as same as Kantha Bopha Hospital in Phnom-Penh. Today, the average of beds occupation is up to 156%.

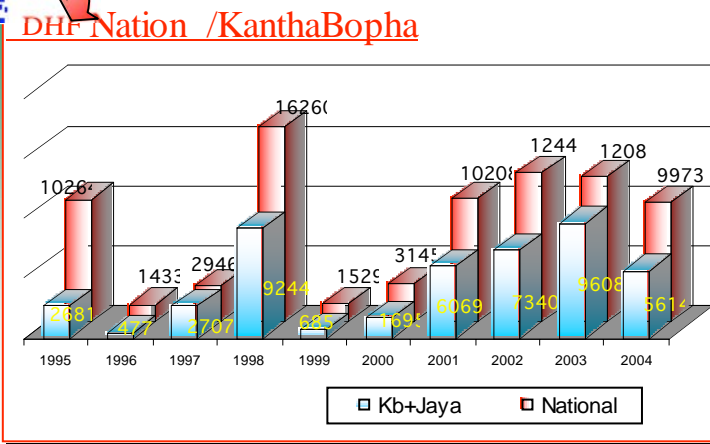
**Total amount of In-Patients in both Kantha Bopha Phnom Penh and Jayavarman VII Hospitals in Siemreap, year 2005 = 74271**  
( included hospitalization for deliveries )

## Dengue Hemorrhagic Fever

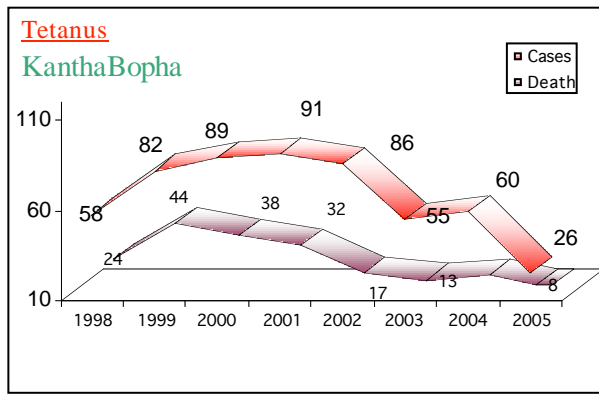


Only the moderate and severe cases ( hospitalized cases ) are figured onto these graphics

**DHF Nation / KanthaBopha**



## Neonatal Tetanus

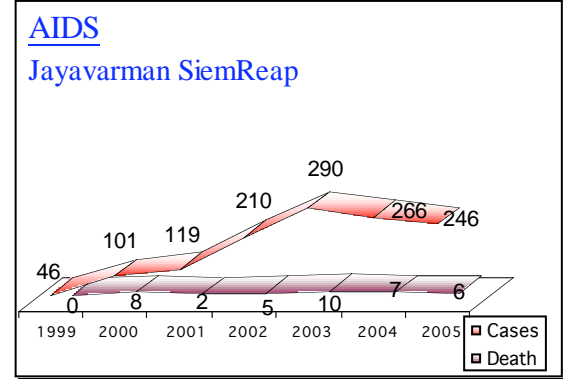
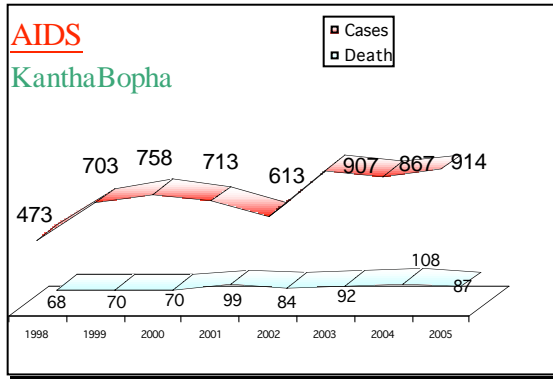


The Tetanus mortality rate is always higher than others

Almost the Neonatal Tetanus was brought to the Hospital because around 7 days of life.

# AIDS

## New concerns of health problem



AIDS graphic : The Number of AIDS admission is higher and higher.



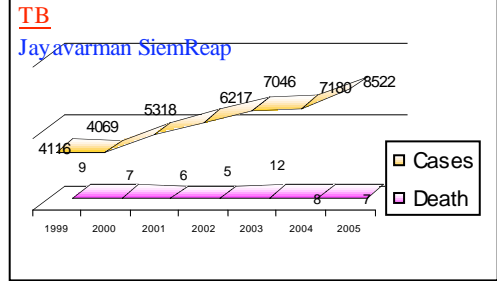
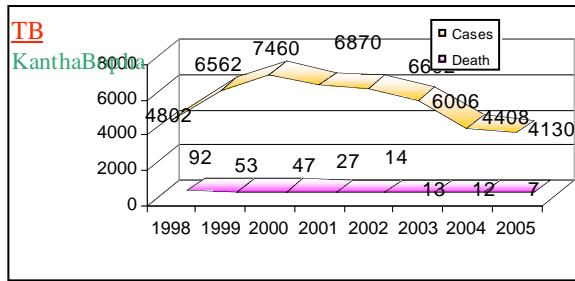
This child is coming for the first time for diarrhea, he looks healthy



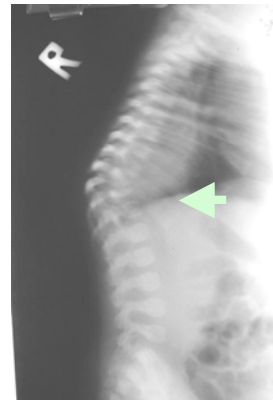
After suffering from an opportunistic disease one or two times, his health status become deteriorated and dies.

## TUBERCULOSIS

The graphic shows the admitted tuberculosis in the hospitals. Without our facilities, tuberculosis is under estimated, "iceberg like". After discharge, the regular monthly check up and follow-up are organized until treatment is finished.



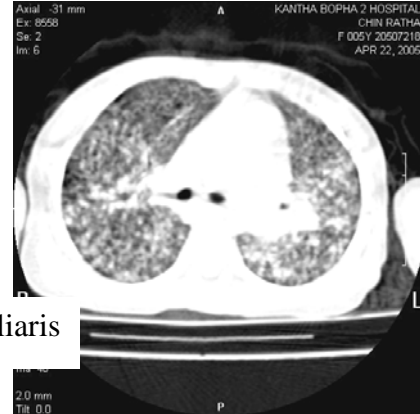
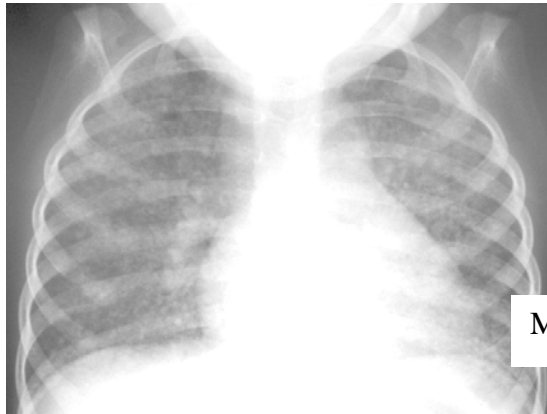
At 1 month old, this baby has already a spinal TB.



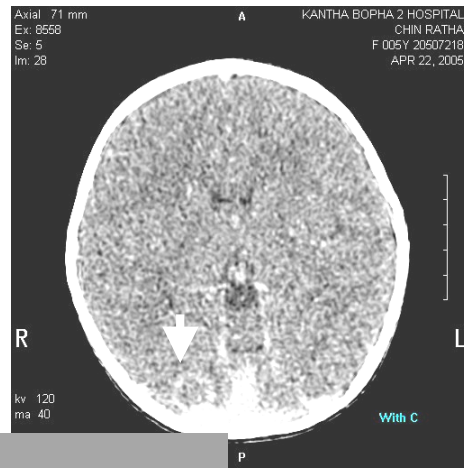
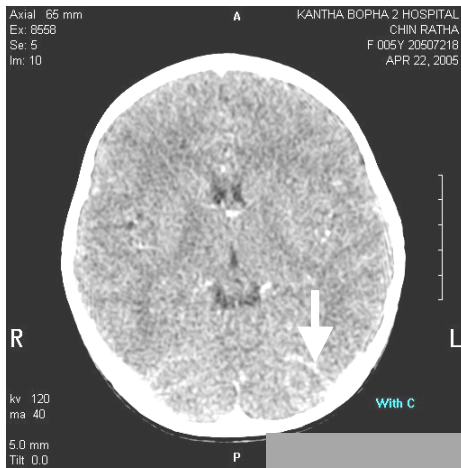
This girl has 5 years old, she looks healthy, but in fact she has a lung tuberculeux miliaris. And, and the problem is not finished yet, please follow next page ...



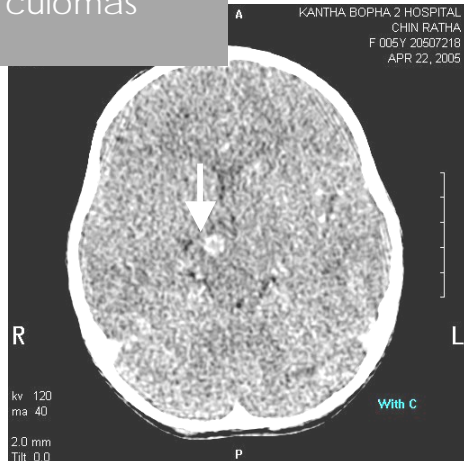
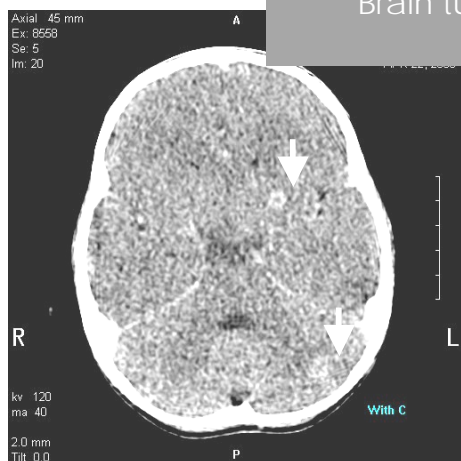
Not only Lung CT and thorax plain film are showing the pulmonary miliary, the complementary head scan can also show brain Tuberculoma on this girl without alarming neurological disorder, "only" little change on the CSF analysis (47WBC/ml, prot:normal)



Miliaris



Brain tuberculomas



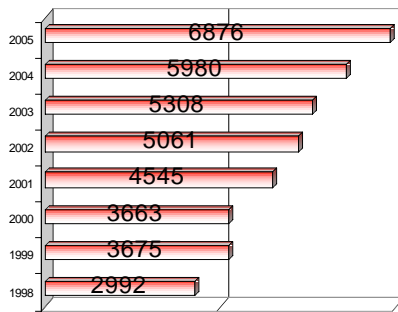
This is one of many and many examples, no facilities, we cannot diagnose soon this disaster disease. The following step is also to encourage families to terminate the whole 9 - 12 months medical treatment, and as still have a lot of poor families in this country...The foundation of Kantha Bopha Hospital Dr. Beat Richner offers trip fee to that poor families helping them to follow well the monthly visits.



## SURGERY

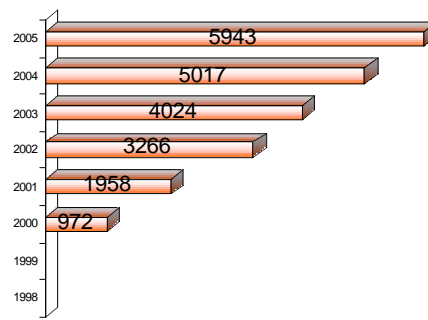
### Surgery, Moderate+Severe

#### KanthaBopha

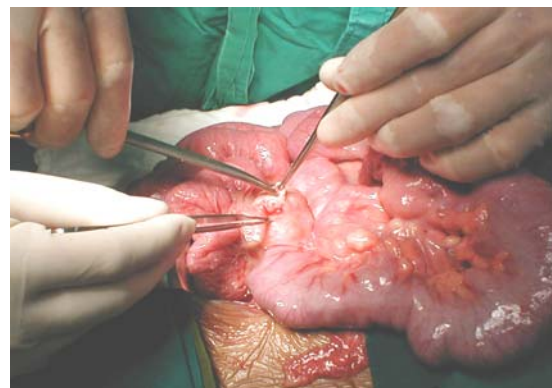


### Surgery, Moderate+Severe

#### Jayavarman SiemReap



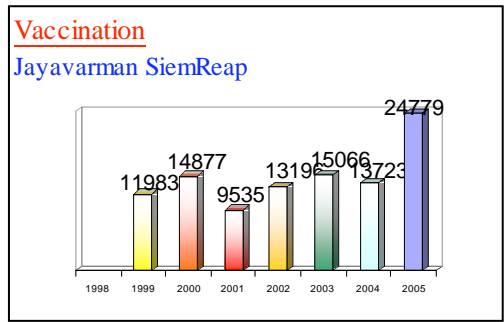
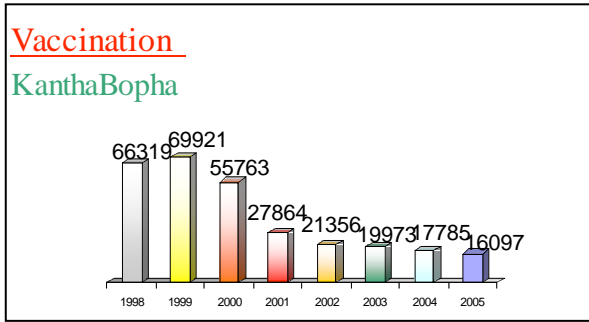
At Kantha Bopha 1, there are four surgical wards with **51 beds** but after several years many beds are added where is possible side by side and admit regularly up to **150 patients !!!**



All surgical cases, moderate and severe, are operated with general anesthesia to reduce pain.

A case of bowel occlusive has caused by mesenteric lymph nodes TB with a lot of caseous material.

### 3. Vaccination & Health Education Activities



Hospitals are not only busy with patients but also with vaccinations.



Health Education have never been missed, in the waiting hall as in the wards HE are included between regular daily activities.

## 4. Laboratories

### KanthaBopha Hospital Phnom-Penh

	2000	2001	2002	2003	2004	2005
Bacterial Culture	38001	42465	45526	47464	52914	55568
Blood culture	21895	25656	27719	30463	33190	25958
Positive blood culture	601	782	808	965	1422	1158
S.Typhi's Sensitivity To Ampicillin	84/92	55/59	77/78	206/206	483/483	204/209
Spinal Fluid Culture	9398	9977	9083	8822	9112	8704
Positive CSF Culture	129	97	87	83	91	76
Urine Culture	4378	5132	5916	5607	7963	7670
Positive Urine Culture	520	485	548	569	934	1011
E. Coli's Sensitivity To Bactrim	149/149	212/220	192/193	263/270	473/482	526/536
HIV Tests	17888	19021	20010	24455	25522	26137
Positive HIV ( new cases )	758	713	613	632	639	548
Malaria Blood Smear	5910	6906	7788	10083	9980	7465
Positive malaria blood smear	739	467	481	676	455	444
Blood Cells count	47936	51560	53456	58455	59876	61807



Bacterial Laboratory in activities.

### Jayavarman VII Hospital SiemReap

	2000	2001	2002	2003	2004	2005
Bacterial Culture	14749	18844	29933	35522	39625	47453
Blood culture	8563	14806	20216	24740	26294	30375
Positive blood culture	349	394	672	632	647	747
S.Typhi's Sensitivity To Ampicillin	64/77	105/105	104/104	41/41	133/133	191/191
Spinal Fluid Culture	2664	2974	3800	4789	5525	7968
Positive CSF Culture	40	35	44	45	45	42
Urine Culture	2464	2858	3882	4659	5721	6893
Positive Urine Culture	124	167	295	501	672	739
E. Coli's Sensitivity To Bactrim	62/67	104/111	126/132	262/279	438/463	409/560
HIV Tests	5780	10719	13317	16715	34146	20551
Positive HIV ( new cases )	96	143	235	255	579	223
Malaria Blood Smear	1158	14462	17567	17270	13044	13080
Positive malaria blood smear	851	173	268	867	191	436
Blood Cells count	15993	21053	34392	43965	54924	60895

## 5. Ultrasonography and CT Scan

Since 10 years, the Foundation has installed 2 CT scanners, 7 X-rays machines and 11 high-performance ultrasound including the last model of Color Doppler series, a **Logiq 7**, useful for training.



CT-Scan

X-ray / Fluoroscopy

### Kantha Bopha Phnom-Penh

	1998	1999	2000	2001	2002	2003	2004	2005
X-ray	39130	39128	41591	46678	46716	46870	47403	58227
Ultrasound	7440	11981	14662	15327	14594	14491	15338	17642
CT Scan	220	303	221	887	1778	1891	1805	2352

### Jayavarman VII Siem Reap

	1998	1999	2000	2001	2002	2003	2004	2005
X-ray		3785	11421	16597	27732	29930	30344	42721
Sonography		1237	5525	6364	11269	10601	12312	14981
CT Scan			305	568	1968	2773	2830	3210

## 6. Other Activities

### EEG



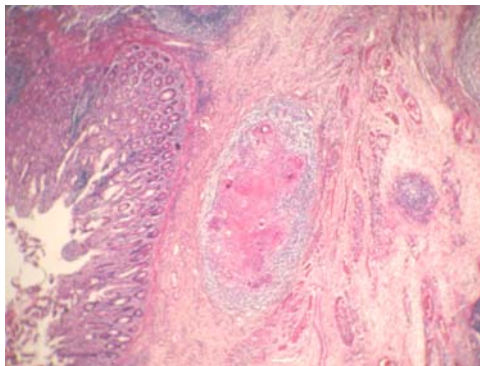
1998	1999	2000	2001	2002	2003	2004
<b>372</b>	<b>408</b>	<b>77</b>	<b>436</b>	<b>197</b>	<b>437</b>	<b>211</b>

### Histopathology

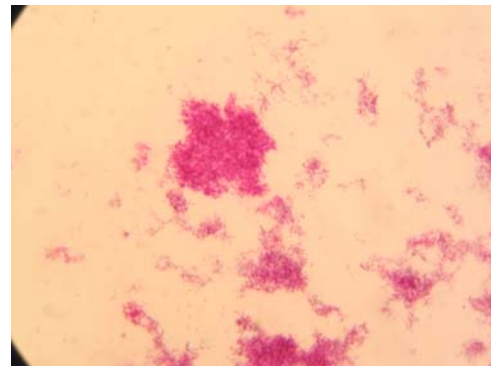
- Since the opening of the histopathological Lab, biopsy analysis is an essential part of correct diagnosis.

2000	2001	2002	2003	2004	2005
<b>484</b>	<b>1185</b>	<b>1291</b>	<b>1222</b>	<b>1359</b>	<b>1736</b>

#### Laboratory for Histopathology



An intestinal biopsy clearly demonstrates TB species



Gastric fluid culture in newborn shows the Koch bacillus

## Blood cancer Department

Blood cancer is as the same as other cancer. If there is no correct medical care, the mortality will be 100%. Kantha Bopha Hospital has started this program since 2003. The bone marrow was analyzed before starting treatment.

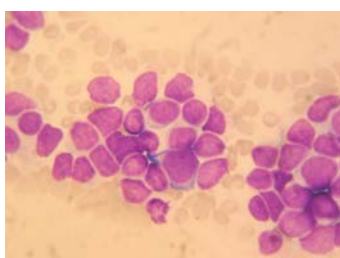
During 8 months of care, sick children will stay hospitalized with their parents.

- In 2003 19 cases are hospitalized and 10 cases of them are saved. The laboratory counted 93 medullar specimens (new : 76).

- In 2004 we found out new 10 A.L.L cases and 6 of them are saved.

- In 2004, laboratory finding is 87, 74 are new cases, 23 A.L.L type, 4 CML, 25 medullar aplesias and 7 cases mixed with A.L.L and medullar aplasia ).

In 2005, 14 orthers new cases are selected, and 9 are saved. 92 medullar specimens are analyzed with 92 new finding during this year.

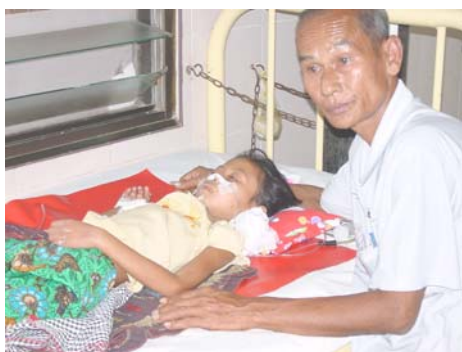


Sample of A.L.L.

New cases	ALL	Medull Apla	MA+ALL	CML	AML	Non identif	Normal
2003(93)	26	20	3	2	0	10	15
2004(74)	23	25	7	4	1	9	5
2005(70)	28	21	7	1	1	7	5

## Diabetes Mellitus

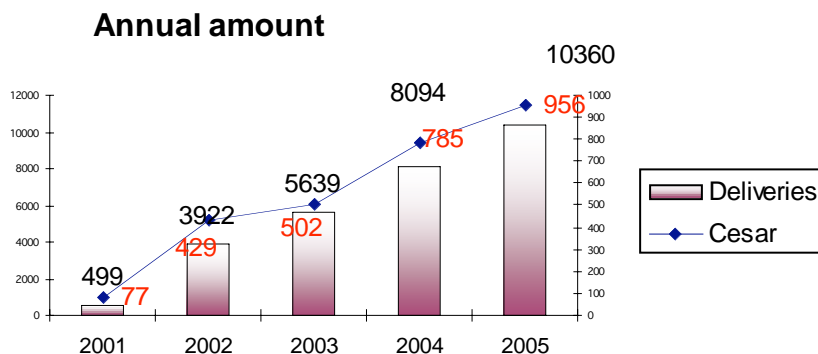
Kantha Bopha Hospital is the only Hospital in the Kingdom of Cambodia where managed the treatment of the diabetes mellitus with Insuline. From 1998 until the end of 2005, 61 are treated, 17 new cases are found in 2005. If there is no correct medical care, all these cases will pass away within the last few years, 10 cases were noncompliant and 4 cases were transfered to SiemReap hospital to be near by their residents. The other 45 cases have been followed up in KBII Hospital.



This girl was arrived in Kantha Bopha Hospital with diabetic coma.

## Maternity ward, Jayavarman Hospital SiemReap

### 1- Amount of newborns are increased year by year.



### 2- The program of anti-vertical transmission of HIV <sup>3</sup>

	2001	2002	2003	2004	2005
mothers HIV Test	862	6363	9197	13256	16944
Positive mothers	28	159	158	186	231
Numbers of mothers accepting the program		117	112	155	179
Num of protected Newborns		43 / 47	107/112	124/130	140/144

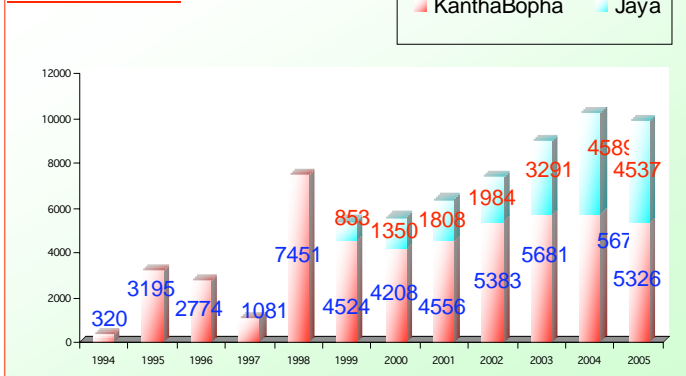
### 3- CD4 count analysis for supporting the program of the vertical transmission:

2000	2001	2002	2003	2004	2005
		500	551	641	637

### Blood Donation:



### Blood donation



These blood sets have been carefully analyzed to get the maximum of security.

## New INVESTMENT

### Library

Kantha Bopha Training Center was built under high engineering and architectural standard for light and sound. There is one big hall of 600 seats and other four medium halls of 60 and including one big library with computers connecting to the internet making research easier. In November 2003 the first International Symposium on Pediatrics and Neonatology had been organized with good success, 200 national doctors from all provinces and 20 expatrate doctors have participated.



### Practical Ultrasound Course

From 13<sup>th</sup> to 22<sup>nd</sup> July 2004 the training center has also organized for Ultrasound course on Pediatrics and Obstetric, inviting two medical staff from each province : Kratie, Svay Rieng , Paillin, Stung Treng, Prey Veng , Oudormeanchey, Mondulkiri, Kampong Thom, Banteay Meanchey, Rattanakiri, Koh Kong , Preah Vihear and Siem Reap. Then from 1<sup>st</sup> to 6<sup>th</sup> Nov 2004, the same teams were invited for the 2<sup>nd</sup> practices courses.

**The goals of this course are :** The participants will be able to detect the high risk Pregnancies and to discove main emergency situations on childhood diseases.

After this course, each province received one set of new Ultrasound except Banteay Meanchey, Kratie ,Svay Rieng and Prey Veng received two units for each province because they are coming from different hospital. The Foundation has also provided 3 very famous ultrasonography books with each Ultrasound machine.



Practices



Provincial Field Visits after training



## New extended building and wards



New building in Siem Reap



New ward

Continuously, the Hospitals are overcrowded by very sick children, in the end of 2003, Dr. Beat Richner has decided to enlarge spaces and bought one more hectare of land ( 10000m<sup>2</sup> ) near by the Jayavarman Hospital. Today the number of beds is increasing up to 620 beds so Jayavarman becomes the greatest hospital in the kingdom of Cambodia.



In Phnom-Penh, the situation is intolerable since many years. In 2004, 7000m<sup>2</sup> of land located at the South-West of Casa hotel has been bought by Dr. Richner to extend spaces. It was a great decision, because looking for money to support these hospitals is hard, but without those efforts several lives will be lost every year.



Construction of the New Building in Phnom-Penh

## THE SUBLIME REALISATION



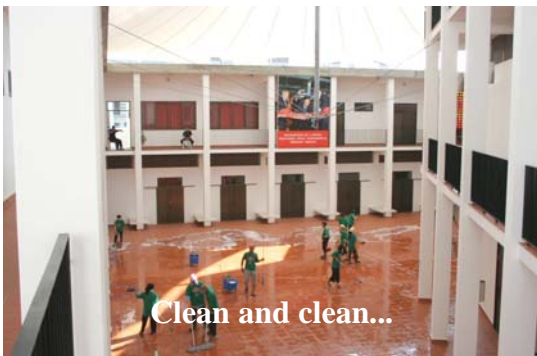
## GETTING START UP



Out Patients Department



Garden Square



Clean and clean...



In Patient Department



New Theatre (4)



HighTech New Autoclaves (4)



New Laboratory Department



New Blood Bank



New multislices Scanner



Application training on the New Ultrasound