



**中华人民共和国卫生部**

MINISTRY OF HEALTH OF THE PEOPLE'S REPUBLIC OF CHINA

# **National scale-up of collaborative TB/HIV activities in China: challenges and opportunities**

---

**Dr. Xia Gang**

**Director, Division of HIV prevention and  
management**

**Ministry of Health, P.R.China**



# Contents

---

- \* HIV/AIDS epidemic situation
- \* TB epidemic situation
- \* TB/HIV collaborative activities
- \* Challenge and Opportunities



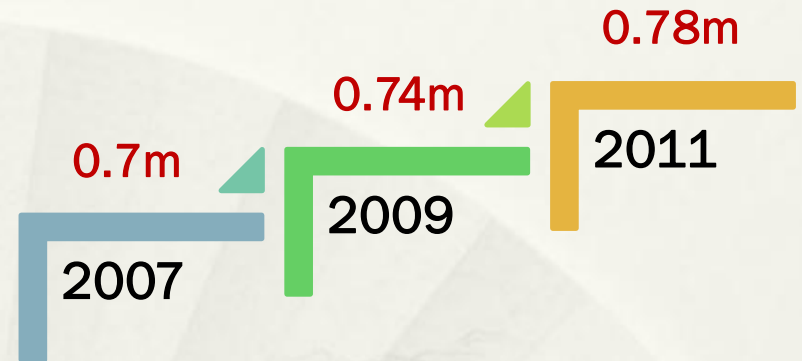
# HIV/AIDS Epidemic Situation in China

---

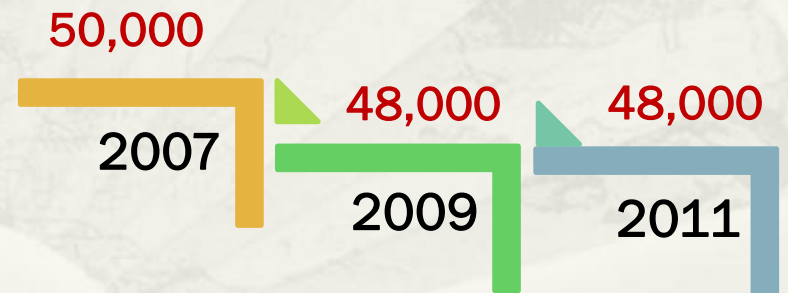


# The HIV/AIDS Epidemic Continues to Show an Upward Trend with the Number of New Infections Controlled and Stable at A Relatively Low Level

\* It is estimated that the number of currently surviving HIV infected people is still rising

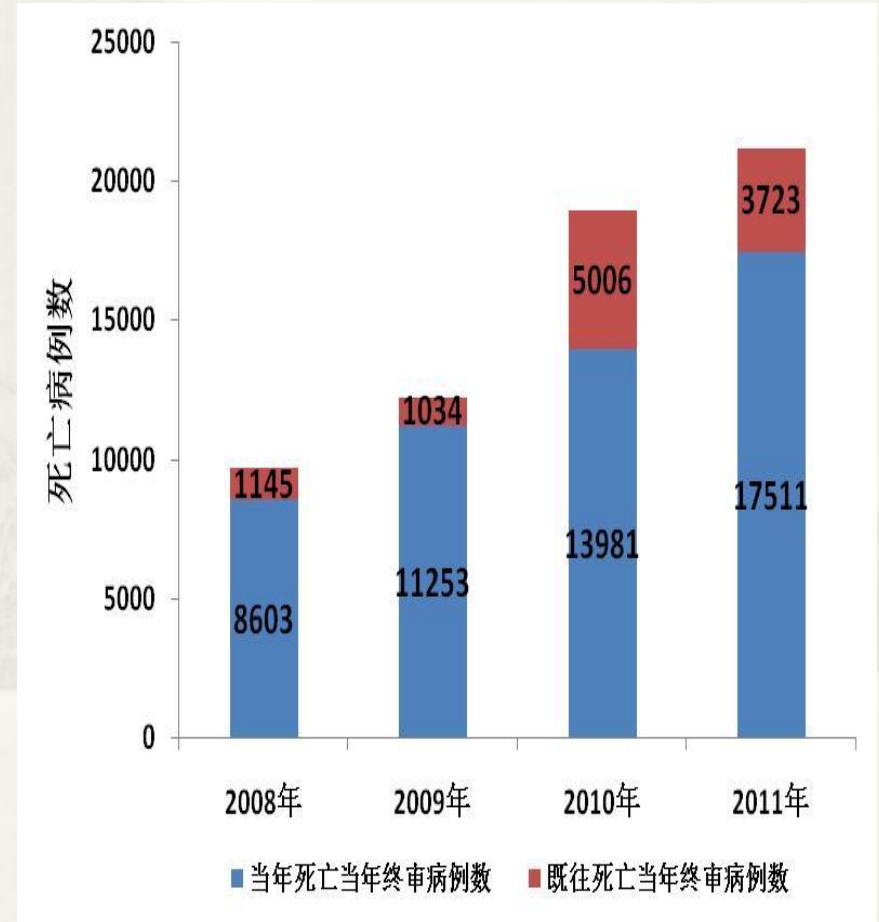


\* It is estimated that the number of new infections is being controlled at a relatively low level



# Former HIV Infections Start to Develop AIDS and The Number of Deaths Related to AIDS Increasing

- **Annual reported number of AIDS patients**
  - Of the 14,509 cases reported in 2008 and the 39,183 cases in 2011, those previously reported as being infected with HIV stand for 26.5% and 47% of the total respectively.
- **Annual reported number of deaths related to HIV/AIDS**
  - 9,748 cases in 2008, increased to 21,234 cases in 2011 (3,723 of the 2010 cases, 17.5%, had died previously).

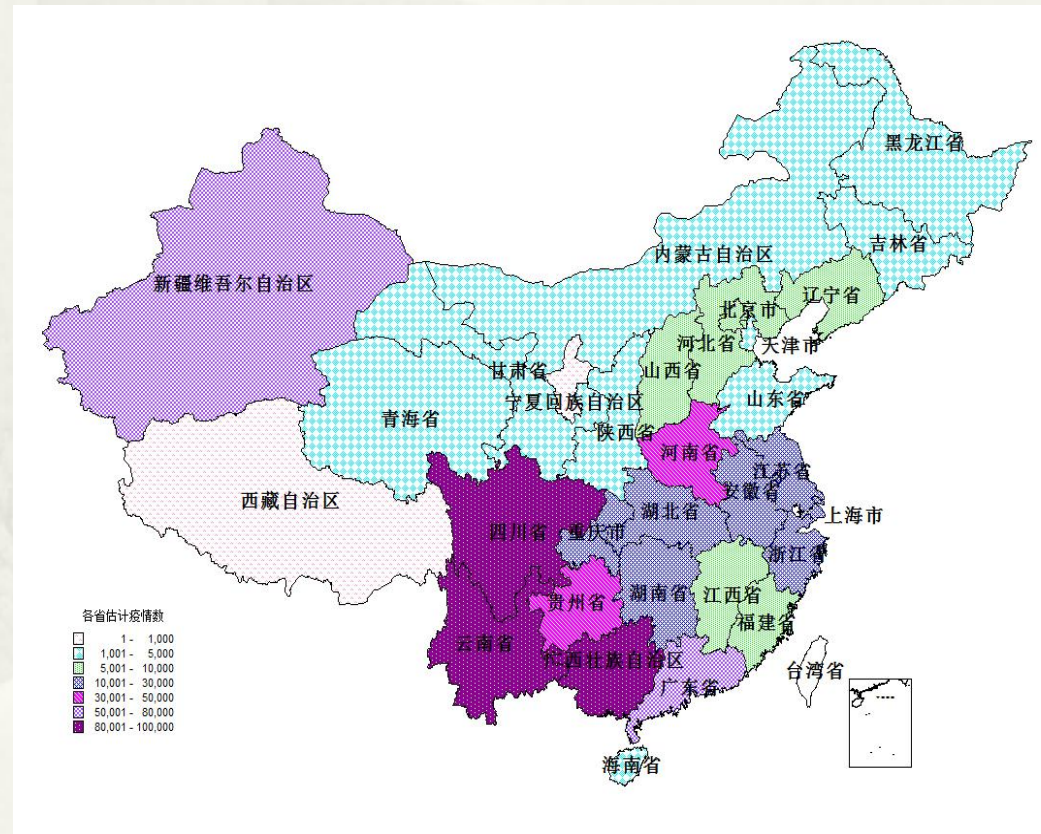


2008-2011 Reported Number Of Deaths Related To HIV/AIDS



# Low-Level Epidemic in General, Severe Epidemic in Certain Areas

- \* Infection rate in the whole population is **0.058%**, a low-level epidemic
- \* Epidemic estimates:
  - \* Five provinces surpass 50,000 people, accounting for 60% of the estimated total in the country;
  - \* 12 provinces have fewer than 5,000 people, accounting for 4.8% of the estimated total in the country.



# Four Free One Care

---

- \* Free VCT
- \* Free ART
- \* Free PMTCT
- \* Free Education for Orphans affected by AIDS
- \* Care for HIV/AIDS



---

# TB Epidemic Situation in China







# TB burden in China

- \* One of the 22 countries with highest TB burden
- \* 550 million population infected with TB
- \* 4.5 million TB patients and 1.5 million SS+ TB patients





# Free Policies

- \* Free screening for TB suspects
- \* Free diagnosis and treatment for TB patients
  - Sputum smear microscopy and chest X-ray
  - Anti-TB drugs
  - DOT
- \* Free screening for contactors of SS+ patients





# Three Major Targets Progress 2001-2009



# TB/HIV collaborative activities in China



# Progress of TB/HIV co-infection control of in China

Mekong Region TB/HIV co-infection control seminar

MOH established the coordinating group and working group, issued the framework, carried out TB screening in HIV/AIDS

MOH 6 counties pilot, GF project launched

Second Mekong Region TB/HIV co-infection control seminar

Issued the implementation plan, intensified strategy, epidemic surveillance and reporting

2004

2005

2006

2007

2008

2009-2011

develop technical manual, staff training, health promotion, operational research, etc

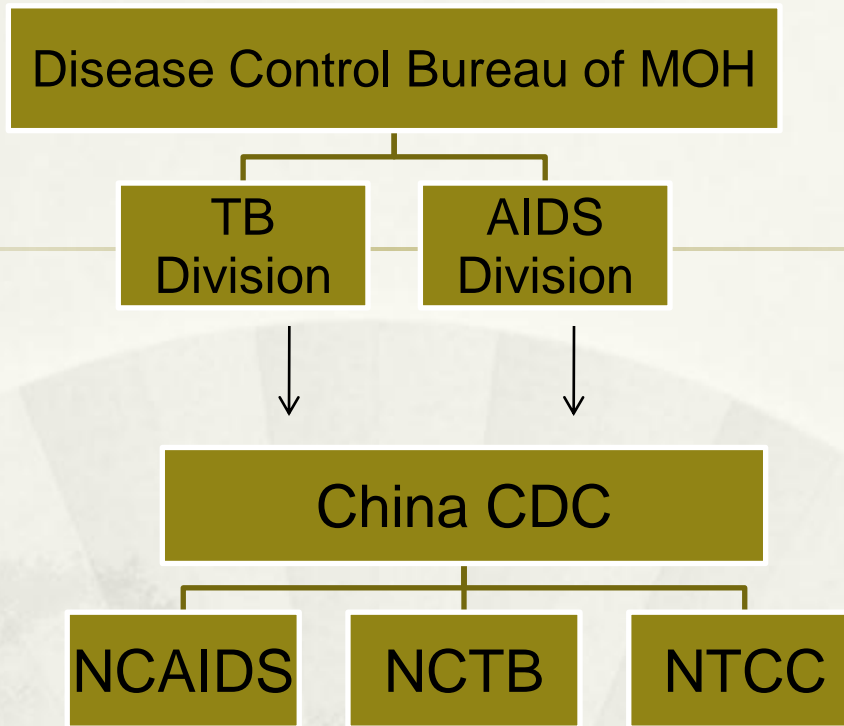
TB/HIV control in 67 counties, 14 provinces, HIV infection rate survey in TB patients of 150 counties, 14 provinces

TB/HIV control in 134 counties, 14 provinces, HIV infection rate survey in TB patients of 119 counties, 17 provinces

GF the extension of TB/HIV control in 16 provinces



**Establish the coordinating mechanism and the expert group**



**----National TB/HIV control coordinating group is composed of leaders from Disease Control Bureau of MOH、 China CDC、 NCTB、 NCAIDS、 CCTB**

**----National TB/HIV control working group is composed of experts from NCTB、 NCAIDS、 CCTB、 WHO and some from provincial level.**





# TB/HIV co-infection pilot

## 卫生部办公厅文件

卫办发疾控[2005]57号

### 卫生部办公厅关于在艾滋病病毒感染者 和艾滋病病人中筛查结核病的通知

各省、自治区、直辖市卫生厅局，新疆生产建设兵团卫生局：

为了掌握艾滋病病毒感染者和艾滋病病人中结核病患病情况及发病趋势，为结核病和艾滋病双重感染的肺结核病人及时提供适当的医疗救治服务，阻断其对家庭及周围人群的传播，逐步建立起全国结核病和艾滋病双重感染的防治工作机制，我部制定了《在艾滋病病毒感染者和艾滋病病人中筛查结核病的方案（试行）》，现印发给你们，并将有关要求通知如下。

一、提高认识，加强协调与领导。各地要本着对人民健康高度负责的精神，提高对该项工作重要性的认识，将该项工作作为及时发现结核病人、正规治疗管理病人的一项重要措施，作为落实我国政府关心艾滋病病人和结核病人的具体体现，加强领导，抓紧抓好。

二、各地要利用现有的资料，对辖区已经登记的艾滋病病毒感染者和艾滋病病人进行结核病筛查；对正在进行或准备开展艾滋病筛查的地区和人群，要将结核病的筛查列入艾滋病的筛查工作中；今后，在日常工作中对



# Case detection in TB/HIV co-infection pilot

## \* TB screening in HIV/AIDS

- TB suspicious symptoms questionnaire screening in 3,879 HIV/AIDS
- 1,751 people with positive questionnaire results (45.1%)
- 250 TB cases in 1,222 patients with positive questionnaire result, and the TB detection rate is 6.4% (1.6%~22.9%)

## \* HIV testing in TB patients

- 2,505 newly registered TB patients, with 109 known HIV positive (0.43%)
- 2,135 TB patients received HIV testing and 68 patients were HIV positive, the newly detected HIV positive rate is 3.2% (1.0%~6.3%)
- the HIV infection rate of the TB patients was 7.9% (4.3% ~ 36.3%)



# Survey of HIV infection rate in TB patients (2007-2008)

the distribution of HIV-positive patients by county

HIV+ in TB patients tested of the county	Counties surveyed	Proportion(%)
0	234	70.3
1	43	12.9
2	20	6.0
3	12	3.6
4	9	2.7
5	3	0.9
6	1	0.3
7	4	1.2
8	1	0.3
9	2	0.6
10	1	0.3
11	1	0.3
16	1	0.3
18	1	0.3
100	333	100.0

- **Sampling method:**

**stratified cluster sampling**

- **Main results**

- the detection rate of HIV is **0.30%**

- the infection rate of HIV is **0.64%**



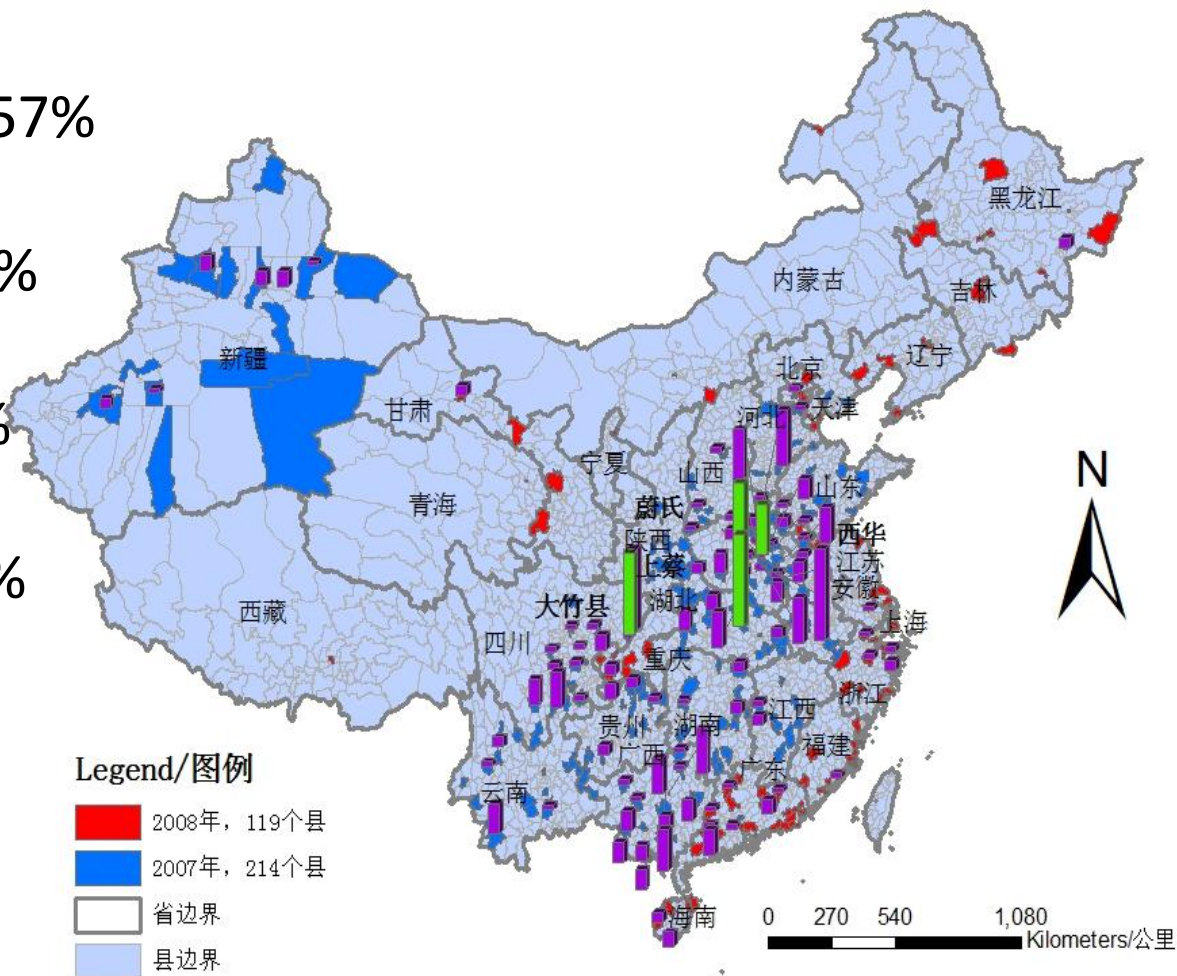
# HIV infection rate of 333 sampling sites in 31 provinces\*Top four

ShangCai 18/271=6.57%

WeiShi 11/165=6.67%

XiHua 10/201=4.98%

DaZhu 16/255=6.27%



\*include the known HIV+ and newly detected HIV +



**MOH issued “National  
implementation plan of TB/HIV co-  
infection prevention and treatment ”**

**(28, July, 2010)**





# Main contents

## 1 ) TB screening and testing among people living with HIV/AIDS

- \* TB symptoms questionnaire screening for all PLWHA during routine follow-up
- \* TB testing (at least once a year)
- \* Referral of the newly registered PLWHA to TB dispensaries for TB testing

## 2) HIV testing in medium and high prevalence areas for the registered TB patients





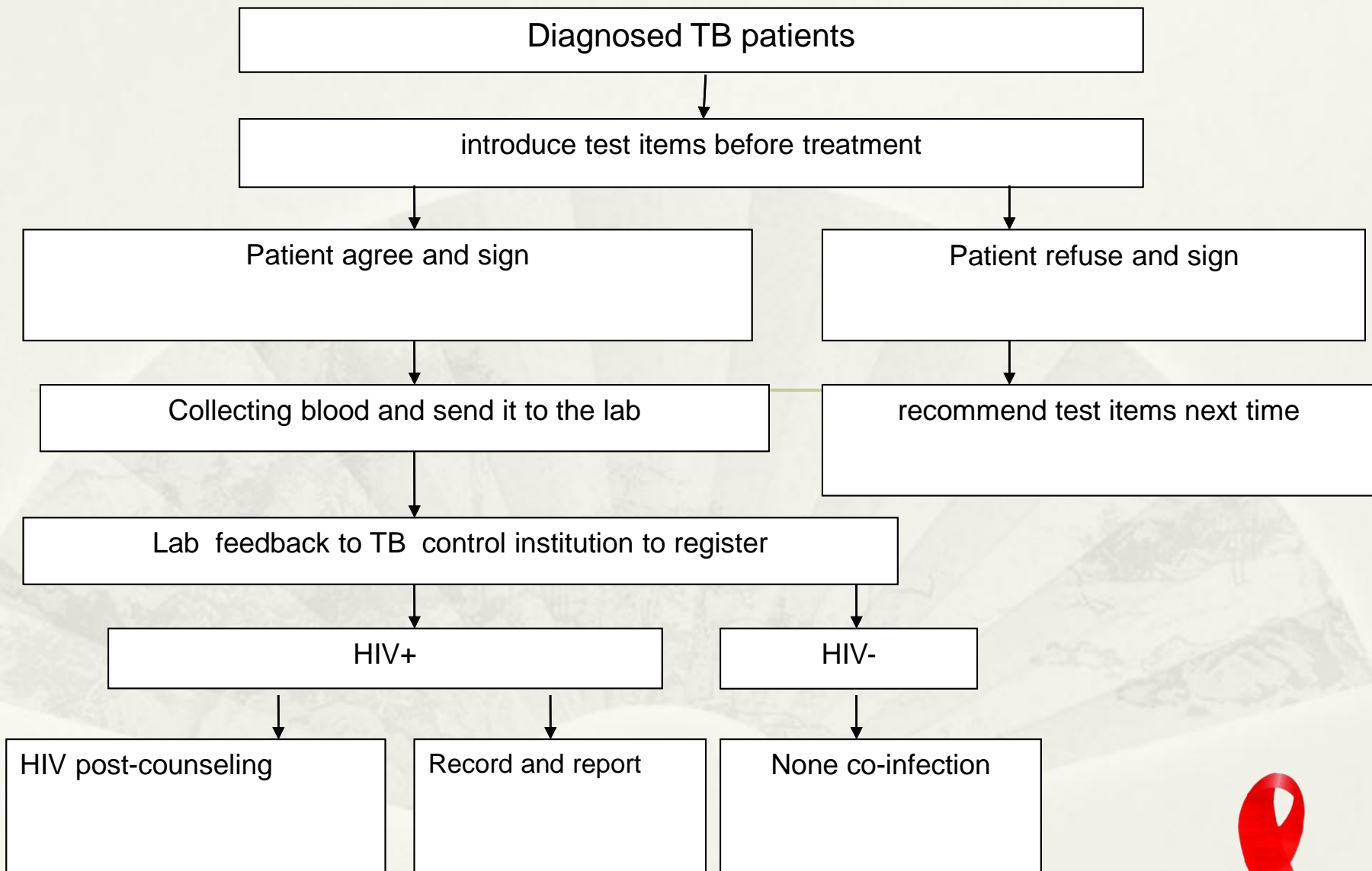
### 3 ) Treatment and follow-up services for the patients with TB/HIV co-infection

---

- \* Provide prompt treatment ( ART and ATT) for free and follow-up services for the patients with TB/HIV co-infection

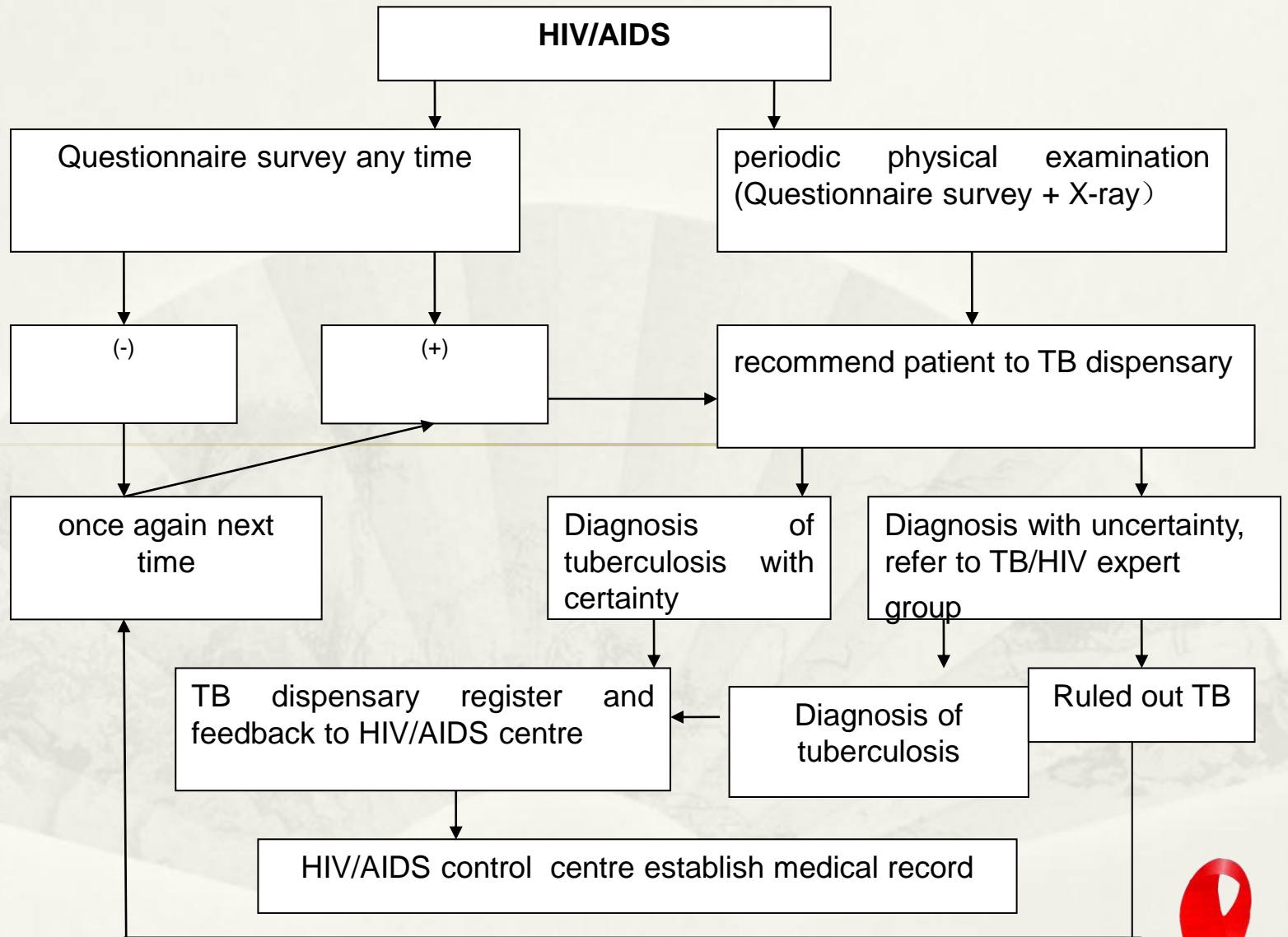
### 4 ) Information sharing between TB and HIV





Flow chart for TB patient referral





Flow chart for HIV/AIDS referral



# Develop training materials and strengthen staff training



TB/HIV working group experts and NCTB, NCAIDS will organize national training class 2-3 times a year



# HIV Quality evaluation plan

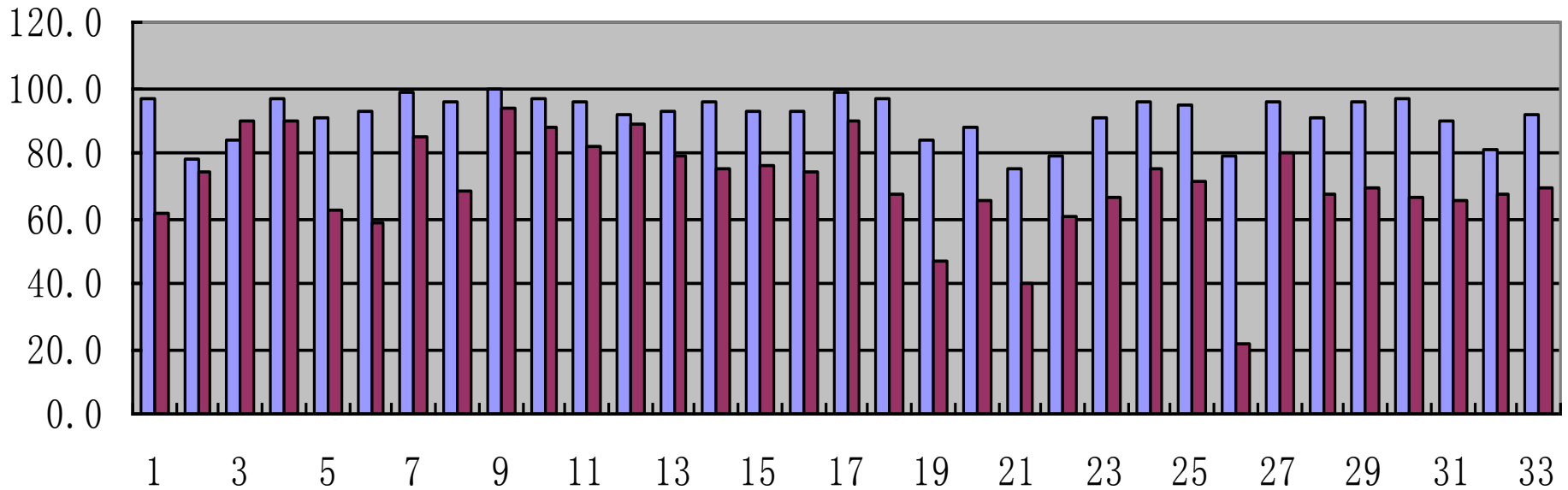
---

**Core indicator 3:**

Proportion of receiving TB test among HIV/AIDS



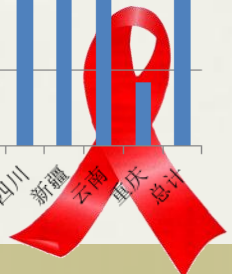
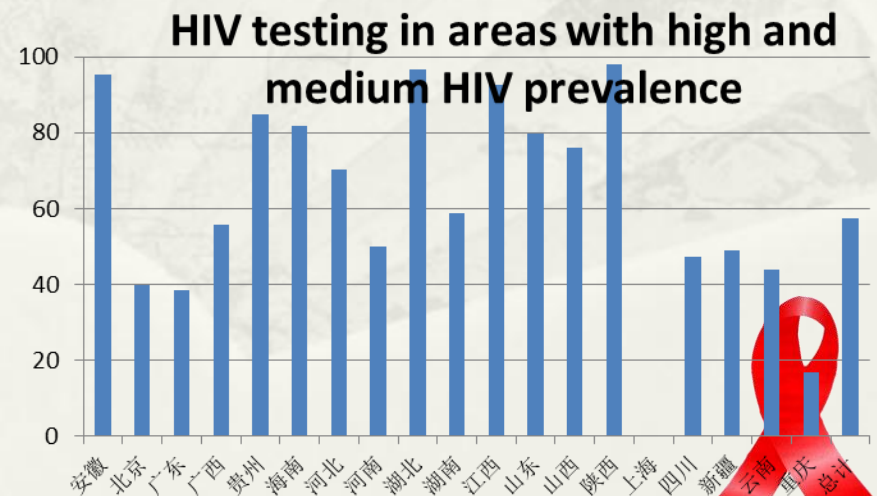
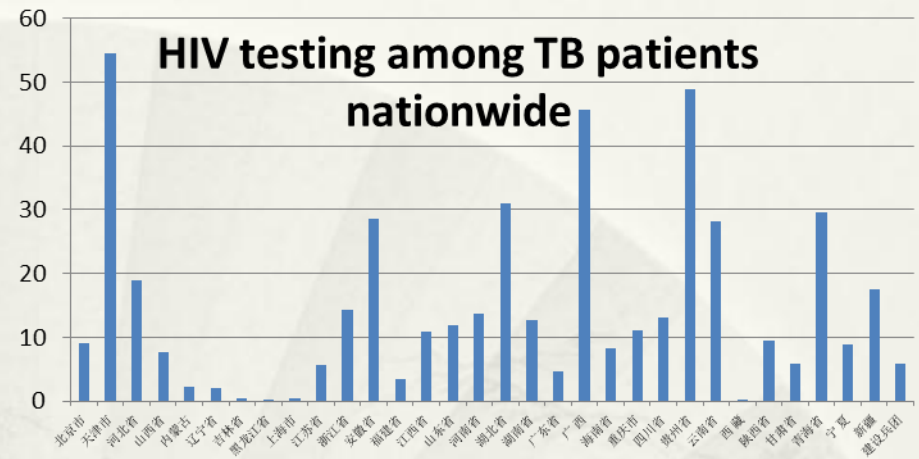
# TB questionnaire screening and Testing





# Statistical analysis of the information of TB/HIV co-infection patients using the network reporting system (Jan.2011—Oct.2011)

- 780,326 TB patients registered nationwide
  - 120,299 received HIV testing with a testing rate of 15.4%.
  - 1822 patients were detected HIV positive with a detection rate of 1.5%.
  
- 95,772 patients registered in 294 counties with high and medium HIV prevalence
  - 51,643 received HIV testing with a testing rate of 53.9%.
  - 1360 patients were detected HIV positive with a detection rate of 2.6%.



# Challenges

---

- \* High questionnaire screening but low testing
- \* Two separate system
- \* Lack of motivation



# Reasons for “not TB testing”

## – expert consultation

---

1. Refuse (no discomfort)
2. No confidentiality
3. Too frequent, negative last time
4. Not convenient
5. Afraid to be charged
6. Not well-informed
7. Mobility



# high rate of loss-to-follow-up

Time period	# of counseling	# of testing	# of screened positive	# of having confirmatory testing	# of confirmed positive	# of CD4 testing	CD4<350	ART
2011.09	245	239	15 (6.28%)	14	13	12	6 yes	4
							6 no	3
2011.10	370	366	30 (8.20%)	29	28	23	12 yes	6
							11 no	0
2011.11	753	753	52 (6.91%)	40	34	21	8 yes	5
							13 no	0
2011.12	801	800	41 (5.13%)	25	23	16	7 yes	3
							9 no	0
2012.01	321	321	29 (9.03%)	14	13	11	7 yes	3
							4 no	0
2012.02	597	596	34 (5.70%)	27	22	13	10 yes	3
							3 no	0
2012.03	1095	1094	61 (5.58%)	42	32	9	6 yes	1
							3 no	0
Total	4182	4169	262 (6.28%)	177 (67.6%)	165 (93.2%)	105 (63.6%)	56 (53.3%)	25
							49 (46.7%)	3

# Ways forward

---

- \* Law enforcement
- \* Further advocacy and Motivation
- \* More close relationship
- \* Client- centered service
- \* CBO involvement





**THANK YOU!**

