## "TB/HIV Monitoring and Evaluation"

This talk will introduce the WHO PEPFAR UNAIDS agreed revision of TB/HIV collaborative indicator guide HIV recording and reporting for HIV/TB

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### I will address

- The revision of the TB HIV indicators
- The case for better integration of TB and HIV monitoring,
- How collaborative TB HIV activities have led to the revision of global estimates





### 2004 guide to Collaborative TB HIV activities

#### Collaborative TB/HIV activities

#### A. Establish the mechanism for collaboration

- A.1. TB/HIV coordinating bodies
- A.2. HIV surveillance among TB patient
- A.3. TB/HIV planning
- A.4. TB/HIV monitoring and evaluation

Joint HIV and TB

#### B. To decrease the burden of TB in PLHIV

- B.1. Intensified TB case finding
- B.2. Isoniazid preventive therapy
- B.3. TB infection control in health care and other settings

#### C. To decrease the burden of HIV in TB patients

- C.1. HIV testing and counselling
- C.2. HIV preventive methods
- C.3. Cotrimoxazole preventive therapy
- C.4. HIV/AIDS care and support
- C.5. Antiretroviral therapy to TB patients.



HIV programme





#### From Mekong to Bali:



### Revision of TB/HIV indicators

Issues:

Original M&E guide 2004





Revision of WHO TB and HIV R&R include TB/HIV data



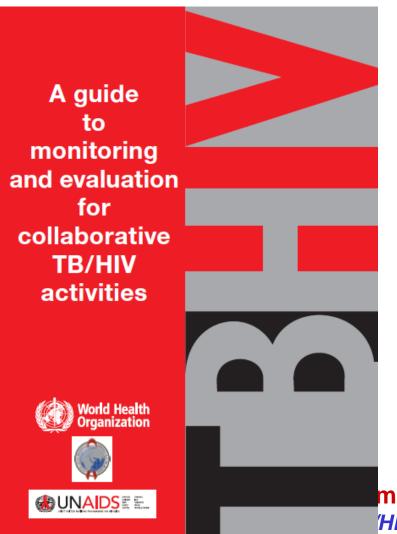
- PEPFAR and UNGASS have own indicators
- Indicator harmonisation needed for countries
- Global Fund wanted to update their M&E toolkit



From Mekong to Bali:

T::IV

### Harmonized indicators for the HIV/TB



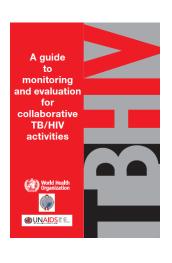
Revised TB/HIV indicator guide

#### Harmonized

- WHO, UNAIDS, GLOBAL FUND,& PEPFAR
- Aligned with WHO generic recording and reporting formats
- Essential for monitoring of 3 Is
- New
  - 13 instead of 20 indicators
  - 2 Infection control indicators

m Mekong to Bali:

HIV collaborative activities in Asia-



#### Summary of indicators measured in TB care settings

Indicator and defin	ition	What to measure						
% HIV STATUS	B register.	Numerator: Number of TB patients registered during the reporting period who had an HIV test result a recorded in the TB register.						
KNOWN		Denominator: Total number of TB patients registered during the reporting period.						
Indicator C.1.2.1 Number of regis with documented HIV status on TB	register who portion of	Numerator: Total number of all TB patients registered over the reporting period with documented HIV-positive status.						
documented hiv status over the re	patients with porting period.	Denominator: Total number of TB patients registered during the reporting period with a documented HIV status.						
TB/HIV CASE DETECTION	ients registered egister who portion of HIV-	Numerator: Total number of all TB patients registered over the reporting period with documented HIV-positive status.						
DETECTION	cur countrywide	Denominator: Estimated number of incident TB cases in people living with HIV.						
FREE	tities where free d condoms tion of all TB	Numerator: Total number of TB facilities (any health facility where TB patients are managed) where free condoms are available (in stock) and accessible.						
CONDOMS		Denominator: Total number of TB facilities evaluated.						
Indicator C.3.1 Number of HIV-po	nue previously expressed as a	Numerator: Number of HIV-positive TB patients, registered over the reporting period, starting or continuing CPT treatment during their TB treatment						
PROVISION	ients registered	Denominator: Total number of HIV-positive TB patients registered during the reporting period.						
% TB/HIV in HIV CARE	sitive TB patients TB treatment, al number of	Numerator: Number of HIV-positive TB patients, registered over the reporting period, who are enrolled in HIV care services during their TB treatment.						
III HIV CARE		Denominator: Total number of HIV-positive TB patients registered during the reporting period.						
ART	nue previously expressed as a	Numerator: All HIV-positive TB patients, registered over the reporting period, who receive ART (are started on or continue previously initiated ART).						
PROVISION	ients registered	Denominator: Total number of HIV-positive TB patients registered during the reporting period.						

a This should include those TB cases previously known to be HIV-positive (e.g. documented evidence of enrolment in HI clinician (e.g. done in the past 3–6 months in a reliable laboratory).







#### Summary of indicators measured in HIV care settings

		_
Indicator and definition	What to measure	
Indicator B.1.1 Number of adults and children enrolled in HIV care whose TB status was assessed and recorded during their last visit during the reporting period, expressed as a proportion of all adults and	Numerator: Number of adults and children enrolled in HIV care whose TB status was assessed and recorded during their last visit during the reporting period.	TB STATUS AT LAST VISIT
children enrolled in HIV care and seen for care in the reporting period.	Denominator: Total number of adults and children enrolled in HIV care and seen for care in the reporting period.	
Indicator B.1.2.1 Number of adults and children enrolled in HIV care who startedTB treatment, expressed as a proportion of adults and children enrolled in HIV care during the reporting period.	Numerator: The number of adults and children in enrolled in HIV care who started TB treatment during the reporting period.	STARTED TB TREATMENT
anoled in the date during the reporting period.	Denominator: Number of adults and children enrolled in HIV care during the reporting period.	
Indicator B.1.2.2 Percentage of estimated HIV- positive incident TB cases that received treatment	Numerator: Number of adults with advanced HIV infection who received antiretroviral combination	
for TB and HIV.	therapy in accordance with the nationally approved treatment protocol (or WHO/UNAIDS standards) and who were started on TB treatment (in accordance with NTP guidelines) within the reporting year.	CASE DETECTION (UNGASS 6)
	Denominator: Estimated number of incident TB cases in people living with HIV	
Indicator B.2.1 Number of adults and children newly enrolled in HIV care, who are started on treatment for latent TB infection, isoniazid preventive therapy, expressed as a proportion of the	Numerator: Total number of adults and children newly-enrolled in HIV care who start (given at least one dose) isoniazid preventive therapy during the reporting period.	NEWLY ENROLLED ON IPT
total number of adults and children newly enrolled in HIV care during the reporting period.	Denominator: Total number of adults and children newly enrolled in HIV care over the reporting period.	
Indicator B.3.1 Number of health-care facilities providing services for people living with HIV, with demonstrable infection control practices that include TB control, expressed as a proportion of the total number of health-care facilities evaluated.	Numerator: Number of health-care facilities with demonstrable infection control practices that include TB control that are consistent with international guidelines.  Denominator: Total number of health-care facilities	INFECTION CONTROL PRACTICES
	evaluated. (Also give the total number of each type of facility nationally to indicate the percentage evaluated.)	
Indicator B.3.2 Number of health-care workers employed in facilities providing care for people living	Numerator: Number of health-care workers employed in HIV care facilities who develop TB in	HEALTH WORKERS

Denominator: Total number of health-care workers

employed in HIV care during that same year.

one year.

**WITH TB** 



with HIV who develop TB in one year, expressed

workers employed in facilities providing care for

people living with HIV during that same year.

as a proportion of the total number of health-care

# Revision of HIV recording and reporting formats to measure TB/HIV indicators AIMS: report on

- TB status assessment
- TB treatment provision
- IPT provision

- On HIV patient forms
- On HIV Pre ART & ART Registers
- On quarterly cross-sectional reporting forms



may 200

Three Interlinked
Patient Monitoring Systems
for HIV care/ART, MCH/PMTCT
(Including malaria prevention during pregnancy),
and TB/HIV: Standardized
Minimum Data Set and
Illustrative Tools















# Progress in TB/HIV indicator reporting by HIV programmes in Asia Pacific

**South East Asia Region** Western Pacific Region (of 11) (of 36) 140 100 **2002 2003** 120 **2004** 80 Thousands of patients **2005** 100 **2006** Thousands of patients **2007** 60 80 60 40 12 40 20 20 00011 Screened for Screened for Diagnosed **IPT** Diagnosed **IPT** TB with TB with TB TB Diagnosis, treatment and prevention of TB Diagnosis, treatment and prevention of TB in people with HIV in people with HIV







# PRE/ART registers already contain TB tx and IPT columns

Adjust to record month year & TB registration numbers

5. Pre-ART register

											_								
Registration								Fill when applicable			Clinical stage (check)					AF			
Date enrolled in chronic HIV care	Unique ID no.	Patient clinic ID no.	NAME IN FULL Upper space: suma me Lower space: given name	Sex	Age	Address	Status at enrolment (becord TI if transfer in)	Start	Start Month/ year	Start Month/ year and TB (89.#	1	2 3	4	EDD, A	NC#an infa	nancy, re d HIV-ex nt # HS9.3	cposed		Date ART started (transfer to ART register)







# Pre-ART register: TB status follow up

Pre-ART register

	2008	}		Yea	r: 200	09		Yea	r: 20′	10		Yea	r: 20′	11		Yea	r: 20′	12		Yea	r: 20°	13	
Q1  an-Mar	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan- Mar	Q2 Apr- Jun	Q3 Jul- Sep	Q4 Oct- Dec	Q1 Jan- Mar	Q2 Apr- Jun	Q3 Jul- Sep	Q4 Oc De												

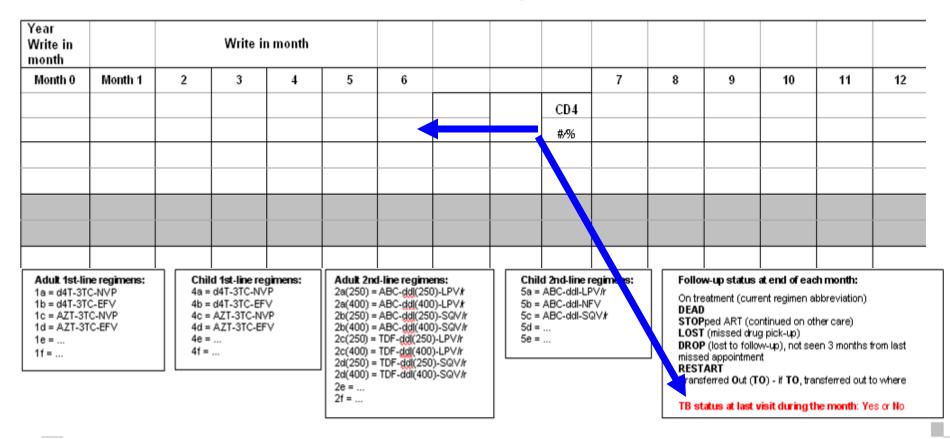


#### From Mekong to Bali:



# ART Registers TB status at last visit.

ART register





#### From Mekong to Bali:



#### **Cross-sectional quarterly report**

Cross-sectional quarterly (or monthly) report form						
Reporting period:	Year:					
MOH or Project or Grantee:	Facility:					
Location:	Country:					

e number of persons ever HIV care at this facility at previous reporting period	New persons enrolled in HIV care at this facility during the reporting period f. g. h.	Cumulative number of persons ever enrolled in HIV care at this facility at end of the current reporting period k.							
	1.	l.							
	1.	ı.							
	h.								
		m.							
	į	n.							
	i.	0.							
Subset of those newly enrolled in HIV care									
	p.								
porting period	q.								
sferred in from another	r.								
Subset of those cumulatively enrolled in HIV care									
Total number of persons who are enrolled and eligible for ART but have not been started on ART									

2. Pre-ART seen for HIV care during the reporting p	eriod					
	Total					
Total	a.					
Subset of those seen during the reporting period						
TB status completed at last visit	b.	<del></del>				
TB treatment started during the reporting period	C.					

**TB SCREENING** 

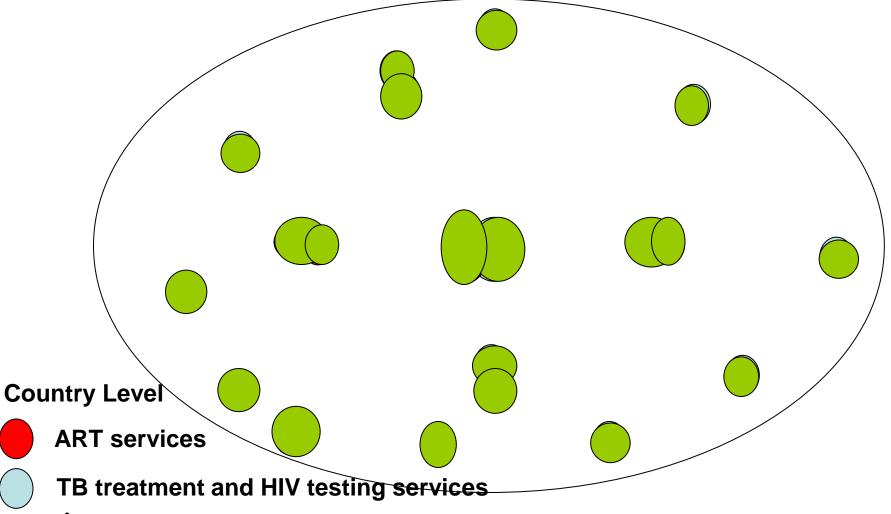
**TB TREATMENT** 



#### From Mekong to Bali:



# The HIV/TB M&E Challenge: Health facility implementation







PLHIV to be on pre ART register & receive HIV care (ICF/IPT/CPT) here



# Routine HIV testing of TB Patients &

### Revision of the TB/HIV Estimates







GUIDANCE ON PROVIDER-INITIATED HIV TESTING AND COUNSELLING IN HEALTH FACILITIES





#### **WHO recommendations 2007:**

In all types of HIV epidemics,

health care providers should recommend HIV testing and counselling as part of the standard of care to:

all adults, adolescents or children who present to health facilities with signs, symptoms or medical conditions that could indicate HIV infection. These include tuberculosis and other conditions specified in the WHO HIV clinical staging system.

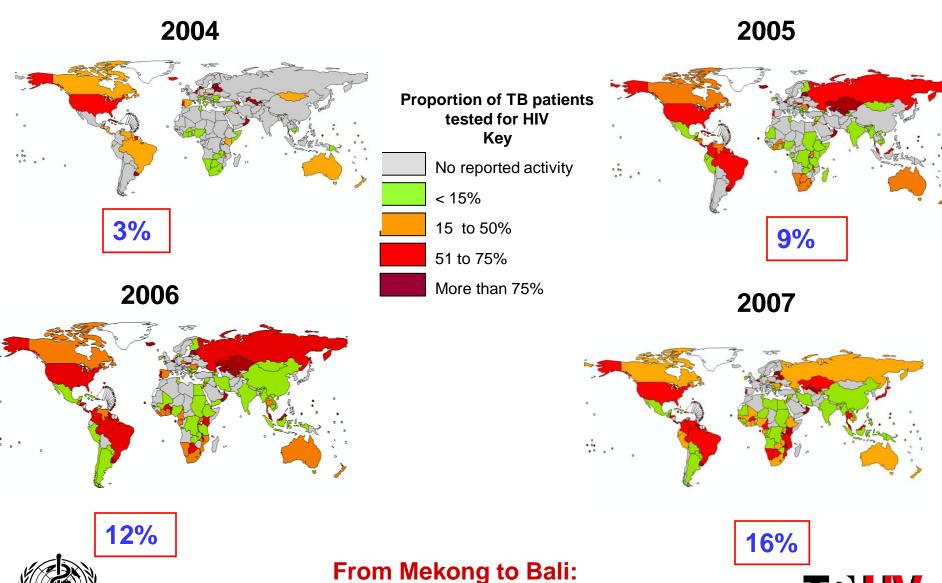
http://whqlibdoc.who.int/publications/2007/9789241595568\_eng.pdf



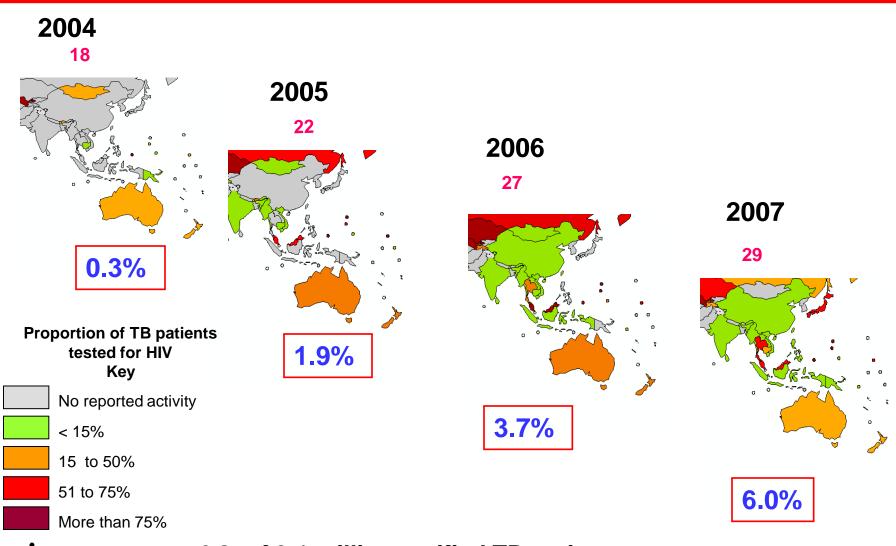
#### From Mekong to Bali:



#### Progress of HIV testing for notified TB patients Global



#### Progress of HIV testing for notified TB patients Asia Pacific (47)





0.2 of 3.1 million notified TB patients were tested in ASIA PACIFIC REGION in 2007



# ASIA PACIFIC 2007 Proportion of TB patients with known HIV status

Country	Proportion TB patients with HIV status know 2007	Proportion of estimated TB HIV cases reported as detected in 2007
Thailand	69%	49%
Japan	64%	60%
Malaysia	60%	37%
Australia	41%	37%
Cambodia	39%	53%
Viet Nam	15%	5%
Lao PDR	11%	53%
Sri Lanka	6%	21%
India	5%	9%
China	3%	5%
Myanmar	2%	10%
Papua New Guinea	1%	1%
Indonesia	0.10%	1%
Philippines	0.03%	0%



#### From Mekong to Bali:



# HIV testing and treatment, 2007

Region	TB patients tested for HIV, thousands (%)	% of tested TB patients HIV +	% of identified TB patients on CPT	% of identified TB patients on ART
AFR	492 (37)	51	66	29
AMR	114 (49)	13	36	77*
EMR	4.2 (1.1)	12	35	65*
EUR	169 (35)	2.5	52	16
SEAR	122 (5.5)	15	37	17
WPR	95 (6.6)	7	45	28
Global	996 (16)	30	63	30

Access to ART is very low and showed regional variation

From Mekong to Bali:

### 64 countries with empirical data in 2007

- From national surveys of HIV in TB
  - 7 countries (up from 2 last year)
- From sentinel surveillance systems
  - 8 countries
- From routine testing (where tested / new cases greater than 50%)
  - 49 countries (up from 13 last year)





# TB HIV estimates What has changed?

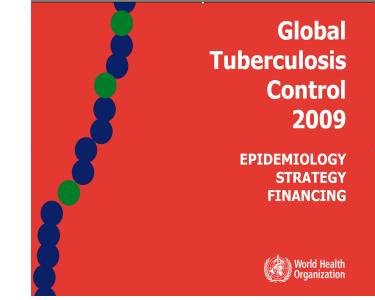
 Significant upward revision in 2007 HIV-TB estimates:
 Better direct data



- 1.37m incident TBHIV cases in 2007,
   Previous estimate (2006): 0.7m
- Number of deaths double
- 23% of estimated HIV deaths in 2007 had TB
   456,000 TBHIV deaths / 2m HIV deaths











### Conclusion and next steps

Collaborative activities have improved surveillance

- Need to enhance TB HIV M&E
  - HIV testing of TB patients
  - TB analysis from HIV registers
  - e.g. better TB surveillance data from HIV care



