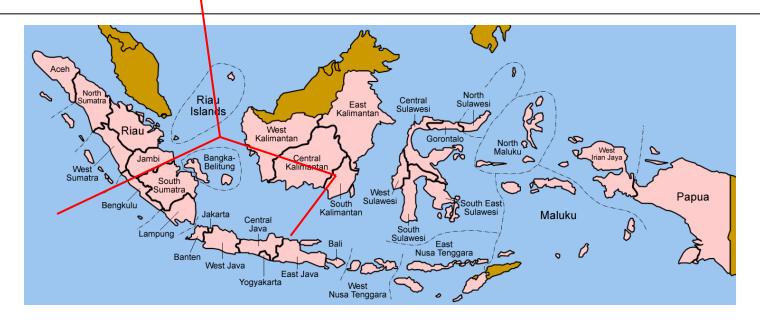
## Management of Latent TB infection in Indonesia

# **Indonesia Country Profile**



- Prevalence : 1,600,000 (647/100,000)
- Incidence : 1,000,000 (399/100,000)
- Incidence HIV/TB : 63,000 (25/100,000)
- Mortality : 100,000 ( 41/100,000)
- Total cases notified in 2014 : 324,539
- Total child TB cases notified in 2014 : 23,176
- National HIV prevalence among people aged 15 to 49 yo : 0.41%

### High Risk Group and National Recommendations for LTBI Treatment in Indonesia

#### Target populations for LTBI activities

Recommendation	High burden	Low burden
Strong	<ul> <li>PLHIV</li> <li>Contacts (children)</li> </ul>	<ul> <li>PLHIV</li> <li>Contacts (adult and children)</li> <li>Patients initiating anti-TNF treatment</li> <li>Patients receiving dialysis</li> <li>Patients preparing for transplantation</li> <li>Patients with silicosis</li> </ul>
Conditional		<ul> <li>Prisoners</li> <li>Health workers</li> <li>Immigrants from HBC</li> <li>Homeless persons</li> <li>Illicit drug user</li> </ul>

Treatment of Latent TB infection in Indonesia focused on :

- 1. People living with HIV Aids
- 2. Children under 5 years old

(National TB guideline 2015, TB National strategic plan 2016-2019)

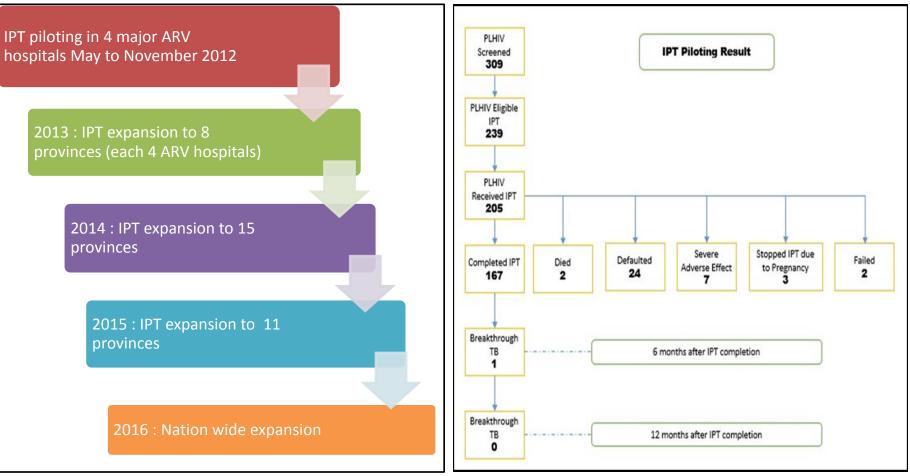
#### TB High risk group population

Sub-population	Populat ion size estimate	Source of estimate
PLHIV	708,000	NAP (2014)*
Contacts to bacteriologically positive pulmonary TB	2,795,000	Estimates based on NSP 2013
People > 55 years of age	31,310,000	BPS 2014
Urban poor	10,500,000	BPS 2014
Prisoners, including pre- trial detainees	167,000	Ditjen Pas (2014)
Malnourished children under five	4.645.2000	BPS (2014)
Pregnant women	5,298,315	Ditjen Bina Gizi & KIA (2013)
Diabetes	9,116,000	IDF (2014)

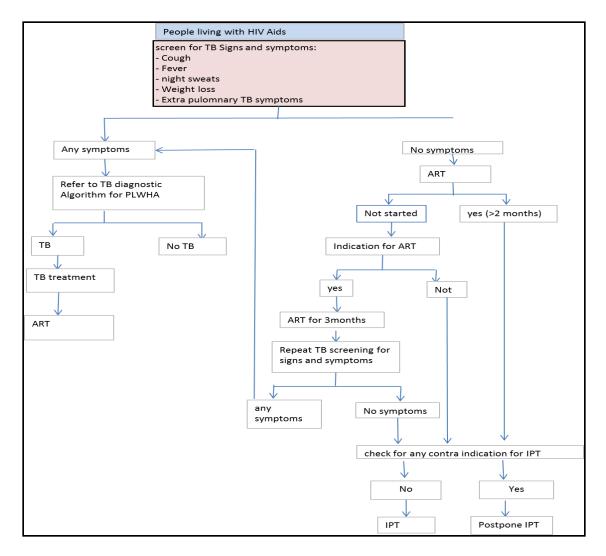
## **IPT for PLWHA**

## Steps of IPT for PLWHA implementation in Indonesia

#### Early implementation of IPT in Indonesia



### Algorithmic Approach to Diagnosis and Treatment LTBI for People Living with HIV AIDS



- All PLWHA coming to ARV clinic will be screen for sign and symptoms of TB
- Those with symptoms will do sputum examination using Xpert
- If TB is confirmed patient will be treated for TB treatment
- And if TB is not confirmed patient will receive INH 300 mg and B
   6 25 mg for 6 month duration daily
- In 2015 we have enrolled 610 PLWHA on IPT

## **Reporting & Recording form IPT for PLWHA**

- web based format to record IPT (IPTIS) is used for early implementation in 4 selected hospitals
- Now IPT RR system is integrated in SIHA (HIV Aids Information system)

IPTIS Client v1.2           Input Data           Report           Help           Sy Form IPT-1	
Form PPT-3      FORMULIR PENILAIAN KRITERIA PASIEN UNTUK PEMBERIAN IPT      Ionbah     Ionbah	Rest       Selamat Datang, admin         Provinces       Point Server         Visur Main Server       Selamat Datang, admin         Profile       Pilh UPK: User         User Main Segment       Silakan Pilih IUPK: User         Ubload       Upload         Tabel IPT-4       Tabel IPT-4         Tabel IPT-4       Tabel IPT-4         Tabel IPT-4       Tabel IPT-4         Tabel IPT-4       Tabel IPT-4         Tabel IPT-7       Tabel IPT-6
3. Informasi terkait NAPZA     3.3 Sedang dalam terapi substitusi metadon     3.2 Pengguna NAPZA lainnya 3.4 Sedang dalam terapi substitusi subuleks     Tanggal 19/01/2012  Pemeriksa	Lonout Copyright © 2012, FHI360. All rights reserved. Powere

## **Reporting & Recording form IPT for PLWHA**

(2) 12 13 16 17 18 Substitusi dgn ARV lini ke-1 Switch dengan ARV lini k Pemberian ma Jumlah CD4 (% utk PP INH Pa uan Jumlah Viral Load Saat Mulai ART anak dan ibu hamil) RТ Osinal (Y/T) Paduan baru Tgl. subst. Alasan Tgl switch Alasan Paduar d 12 bular d 12 bulan d 12 bular d 12 bulan 1 12 bulan d 12 bular 12 bula Pd 12 bulan d 12 bulan 12 bula 2 600

**REGISTER ART** 



**Report ART Lembar 1** 

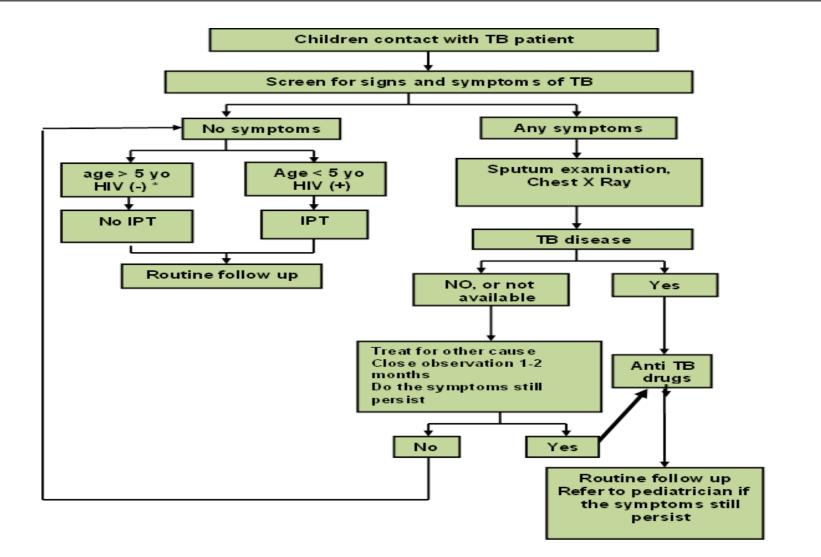
	Report 💭 Export	Tools	Осоонт
0	Report KT & PITC	•	
۲	Report IMS	•	
۲	Report PMTCT	•	
۲	Report LJSS	•	
۲	Report Metadon		
۲	Report ART		🤌 ART Lembar 1
0	Report Penjangkauan	•	👌 ART Lembar 2
۲	Report Dukungan ODHA		🔗 Kohort Bulanan
0	Report Alat & Bahan		👌 Kohort Tahunan
۲	Report surveilans		👌 Stok Obat

PERAWATAN HIV DAN ART UPK : PUSKESMAS KEC. GAMBIR Kabupaten / Kota JAKARTA PUSAT Bulan : F Provinsi : DKI Jakarta Tahun: 2 LAKI - LAKI PEREMPUAN VARIABEL <1 1-14 15-19 20-24 25-49 >50 Jml <1 1-14 15-19 20-24 25-49 >50 Jml <sup>1</sup> Masuk dalam perawatan HIV 0 0 0 0 0 0 1.1 Jumlah kumulatif orang yang pernah masuk perawatan HIV s/d akhir bulan lalu 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1.2 Jumlah orang baru yang masuk (termasuk rujuk masuk) perawatan HIV selama bulan in 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1.3 Jumlah orang yang rujuk keluar perawatan HIV selama bulan ini 1.4 Jumlah kumulatif orang yang pernah masuk perawatan HIV s/d akhir bulan ini 0 0 0 0 1 0 1 0 0 0 1.5 Jumlah kumulatif ibu hamil yang pernah masuk perawatan HIV s/d akhir bulan lalu 0 0 0 0 0 1.6 Jumlah ibu hamil baru yang masuk (termasuk rujuk masuk) perawatan HIV selama bulan ini 0 0 0 0 0 1.7 Jumlah ibu hamil yang rujuk keluar perawatan HIV selama bulan ini 0 0 0 0 0 1.8 Jumlah kumulatif ibu hamil yang pernah masuk perawatan HIV s/d akhir bulan ini 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 1.9 Jumlah orang yang berkunjung ke perawatan HIV (termasuk ibu hamil) selama bulan ini nuhi syarat secara medis untuk ART

## Implementation of Latent TB Infection for Children under 5 years old

- INH provision for children under 5 yo in Indonesia have been mentioned in National guideline since 2007 but the documentation form hasn't been developed
- In 2015, guidelines of contact investigation and IPT provision for children under 5 years old have been developed along with reporting recording format. The guidelines have been disseminated to 7 provinces in the last quarter of 2015
- NTP have procured INH 100 mg and ensured its availability

# Algorithmic Approach to Diagnosis and Treatment LTBI for Children under 5 years old



#### **Reporting and Recording form for IPT provision children <5yrs**

PENANGGULANGAN TB NASIONA	KARTU PE	NGOBATAN PASI	IN TB	TB.	
	Imur : tahun bula		:	No. Telp/HP :	N/20
Berat badan : kg	Tinggi badan : cm	No. Reg TB.03 Kab	/Kota :		
Bulan         Hasil Pemeriksaan Contoh Uji (Ses           Bulan         BTA*)           G         Image Ses           G         Image Ses           Bulan         Pemeriksaan Contoh Uji (Ses           Pemeriksaan Contoh Uji (Ses         Pemeriksaan Contoh Uji (Ses           S         Image Ses           Viji Tuberkulin:         mm (Indur           Viji Tuberkulin:         (mm)	Biakan Tes Cepat hasil pemeriksaan dahak asi bukan eritema)	Tipe Diagnosis Terkonfirmasi bakteri Terkonfirmasi bakteri Terkonfirmasi bakteri Klasifikasi berdasarkan riw Diobati setelah gagal Lain-lain Klasifikasi berdasarkan sta Positif Dirujuk oleh: Inisiati Faskes	ologis    TB Pa    TB Ek ayat pengobatan sebe    Kambuh    Diobati setelah    Riwayat pengol tus HIV    Tidak diketahui    Pasien/Keluarga 	berdasarkan lokasi anatom ru straparu, Lokasi lumnya putus berobat ( <i>lost to follo</i> batan sebelumnya tidak dik Anggota Masyarakat/Kade Dokter Praktek Mandiri Lain-lain	w up etahu
Foto toraks: Tanggal:/ N Kesan:	Jo Seri:	Pemeriksaan Kontak		n anak, sebutkar	
Sebutkan	MTB Bukan MTB Tidak Negatif Inj. Insulin	1 2 3 4 5 *) Hasil diisi: Untuk Dewa Untuk Anak	isa: Sehat/Sakit TB :Sehat/Infeksi Laten TB/S	akit TB	
NANGGULANGAN TB NASIONAL	KARTU PENGOBATAI	N PENCEGAHAN TB		IN	TB.
ta Pasien : : mat Lengkap : Kota : A Ayah/Ibu :	No.Telp/HP : Provinsi :	Jenis Kelamin Tanggal Lahir No. Register PP I NH Kab/ Kot Nama Faskes	: LP ://Umu : :	r : Tahun [	
teria Pengobatan Pencegahan :					
Anak < 5 Tahun			Kasus Indeks		
ODHA Lainn	ya, se butkan:	Nama			
eriksaan Lain-Lain:		Alamat			
UjiTuberkulin FotoRontgen Dada		No.Reg TB			
tBCG: Va Tidak			Pemeriksaan Bakteriologi:		
giBadan: Berat Badan:		Tanggal Pemeriksaan	Noreglab BTA	Biakan Tes Cepat	
s INH:					
10 mg/kg 88		Sumber Obat : Pro	ogram Baya	rSendiri	
20 mg/kg88 (dosis tinggi)		As	uransi Iain-	lain	
GOBATAN Bulan 1 2 3 4 5 6 7	8 9 10 11 12 13 14 15				2
Bulan 1 2 3 4 5 6 7	<u>, , , , , , , , , , , , , , , , , , , </u>	20 20 21 20 21 Z	2 2 24 25 26 27	28 29 30 31 Jumlah do	25
		++++++	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		_
			+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		

				_						TB.16	
S									IN	DONESIA/20	15
							Tahun Triwulan Bulan				
	Hasil Akhir	-		Tindal	k Lanjut		Tanggal mulal		Hasil	PP INH	
Sakit TB		Tidak ada bukti	QAT	PPINH	Observasi	Evaluasi persistens I gejala	PP INH	Pengobat an lengkap	Putus berobat	Meningga I	Gagal
10	11	12	13	14	15	16	17	18	19	20	21
				P	a	ge	e 2	2			
lanjut dii member	5,16) Tind si dengan ikan tanda dak lanjut	a rumput	INH diis pertama pencega	nggal mula si tanggal a pengoba ahan INH n pada ko	hari Itan		(18,19,20,21 diisi dengan diketahui pa yang sesua	hasil pen da kolom	gobatan		

		KESEHATAI								TAHUN: TRIWULAN:								
 No NIK Kasus indeks			Alamat			sia	Hasil akhir			Tindak lanjut				Tanggal	Hasil PP INH			
Nama Sensitif/ Resistan			kontak		P	Sakit TB	ILTB	Tidak ada bukti	OAT	PP INH	Observasi timbulnya gejala	Evaluasi persistensi gejala	mulai PP INH	Pengobatan lengkap	Putus berobat	Meninggal	Gaga	
					Π													

# Challenges

**IPT for PLWHA** 

- Low enrollment rate for IPT among PLWHA (610/3809)
- Dissemination process from central level to district
- To increase commitment from clinician for IPT
- To maintain patient adherence

IPT for children under 5 years old :

- Process to expand implementation nationwide
- Difficulties in diagnosing TB in children
- Maintaining patient adherence

# Further opportunities for the implementation of the programmatic management of LTBI

- IPT for TB in congregate setting
  - From on going study of latent TB infection in Jakarta prison, approximately 52% inmates have latent TB infection
- Integrate IPT to PMTCT
- LTBI treatment for DR TB contact
- Shorter duration of treatment

