



Reinforcing Surveillance System of Drug-Resistance TB in Thailand

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Tuberculosis (MDR-TB), and Supply of Second-Line Anti-Tuberculosis Drug.
Taiwan

TB Situation in Thailand, 2014

Thailand ■ Population 2014 **68 million**

Estimates of TB burden^a 2014

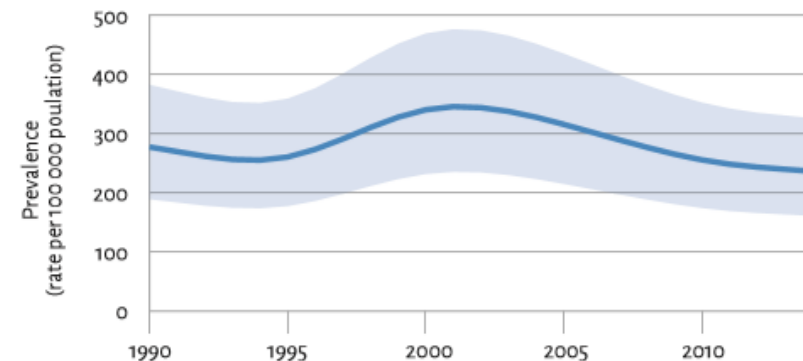
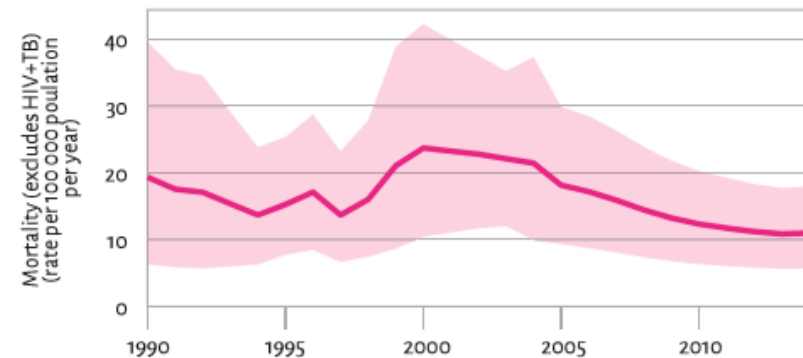
	NUMBER (thousands)	RATE (per 100 000 population)
Mortality (excludes HIV+TB)	7.4 (3.9–12)	11 (5.7–18)
Mortality (HIV+TB only)	4.5 (2.3–7.4)	6.6 (3.4–11)
Prevalence (includes HIV+TB)	160 (110–220)	236 (161–326)
Incidence (includes HIV+TB)	120 (61–190)	171 (90–276)
Incidence (HIV+TB only)	15 (7.8–24)	22 (12–36)
Case detection, all forms (%)	59 (36–110)	

Estimates of MDR-TB burden^a 2014

	NEW	RETREATMENT
% of TB cases with MDR-TB	2 (1.4–2.8)	19 (14–25)
MDR-TB cases among notified pulmonary TB cases	1 100 (780–1 600)	1 100 (800–1 500)

TB case notifications 2014

	NEW ^b	RELAPSE
Pulmonary, bacteriologically confirmed	34 394	1 969
Pulmonary, clinically diagnosed	21 115	0
Extrapulmonary	10 244	0





TB in Thailand

Thailand ■ Population 2014 **68 million**

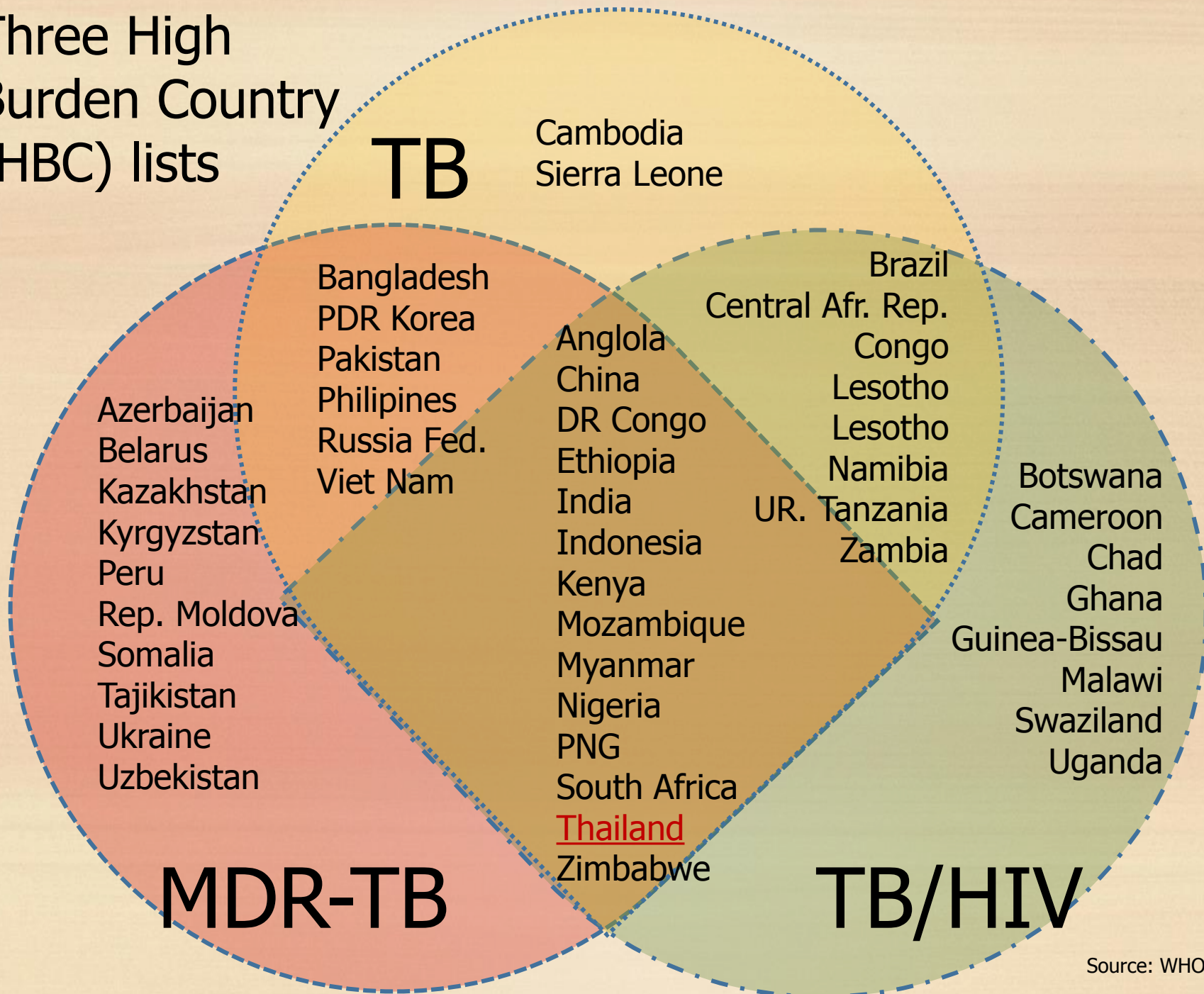
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Three High Burden Country (HBC) lists





สุขภาพดี
เริ่มต้นที่นี่ 



Surveillance system of DR-TB

- 2009



Surveillance system of DR-TB

- Since 2009, there are 100 MDR-TB centers located in capital districts and large urban areas countrywide.
- During 2009-2012, MDR-TB reports from these centers were not successful due to no laboratory data for M/XDR-TB detection among risk groups.
- 9-17 October 2012, GLC monitoring visit was organized and the expert recommended the revision of R&R and full participation of community hospitals on MDR-TB care.

PMDT Monitoring Visit, Oct. 2012





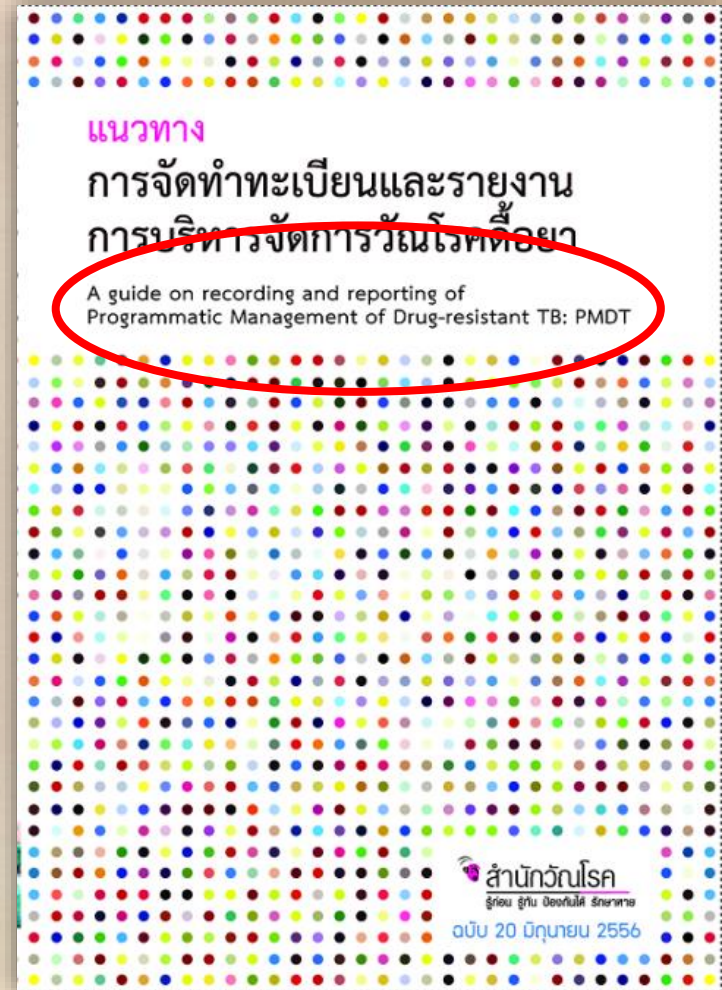
Revised R & R of PMDT, Oct. 2012





- Adding PMDT items into the auditing system of the “Quality TB Clinic”

■ Implementing revised TB register & PMDT R&R forms to include results of culture & DST for risk groups of MDR-TB



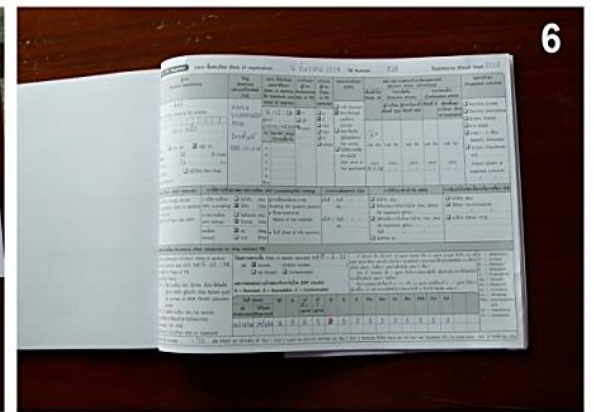
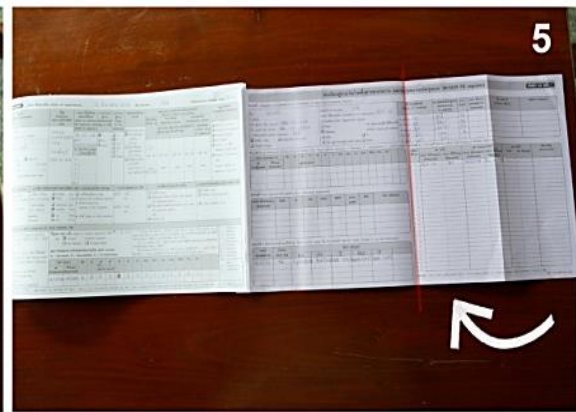
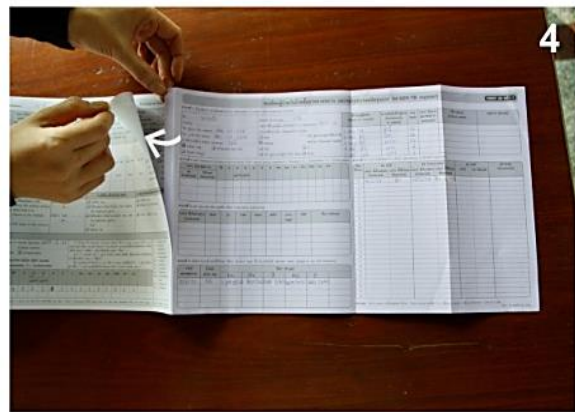
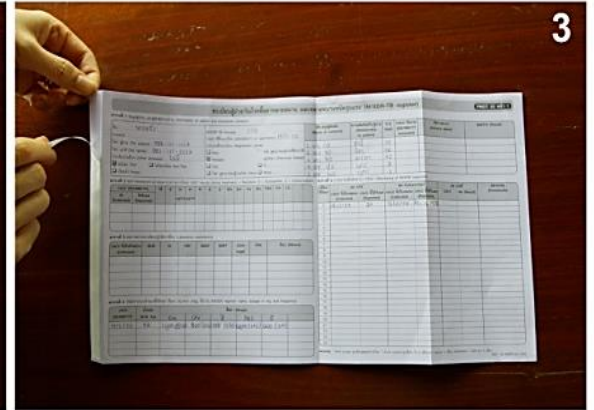
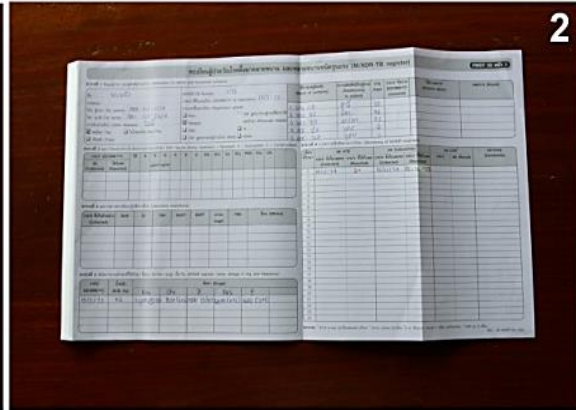
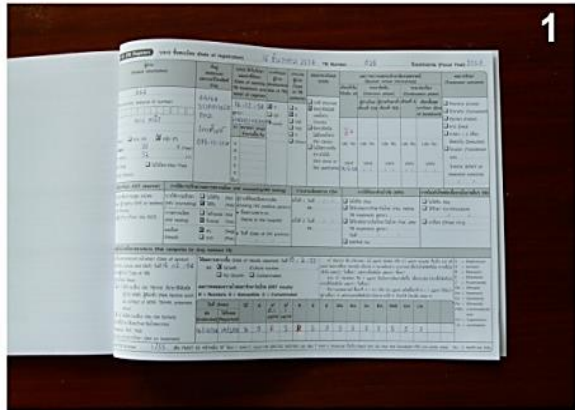
รหัสสถานบริการ : 10674

โปรแกรมบริหารงานคลินิกวัณโรค
TB CLINIC MANAGEMENT : TBCM VOL. 12.56.04.13

โรงพยาบาลเชียงรายประชานุเคราะห์, รพศ.
สำนักงานสาธารณสุขจังหวัดเชียงราย
สำนักงานป้องกันควบคุมโรคที่ 10
วันนี้วันที่ : 24/06/2556

T ทะเบียนวัณโรค	R ข้อมูลและรายงาน	F เรียกข้อมูลใหม่
L ทะเบียนขั้นสูง	S ตั้งค่าโปรแกรม	D ดาวนโหลดโปรแกรม
C ทะเบียน LTBI	H ช่วยเหลือ	
M วัณโรคดื้อยา	O ODBC Connection	E ออกจากโปรแกรม

TB Register & PMDT (TB 03 & PMDT 03)





Detection of M/XDR TB, 2013

2013	Registered in TB07	Culture	DST	RR-TB	MDR- TB	XDR- TB
New(M+ & M-)	16643	4012	2467	0	115	0
Relapse	931	569	372	0	38	2
TAF of New	149	95	53	0	13	0
TAF of PrevHxRx	46	37	22	0	5	0
TALF	332	198	122	0	8	0
Other	3590	324	157	0	15	0
Total	21691	5235	3193	0	194	2



Detection of M/XDR TB, 2014

2014	Registered in TB07	Culture	DST	RR-TB	MDR-TB	XDR-TB
New(M+ & M-)	27770	6661	4655	68	149	9
Relapse	1880	826	554	21	64	1
TAF of New	268	199	114	8	20	1
TAF of PrevHxRx	65	42	30	3	6	0
TALF	416	271	197	8	19	0
Other	6171	686	307	14	39	2
Total	36570	8685	5857	122	297	13



Detection of M/XDR TB, 2015

2015	Registered in TB07	Culture	DST	RR-TB	MDR- TB	XDR- TB
New(M+ & M-)	33873	8986	6387	56	190	4
Relapse	1913	1127	799	20	69	1
TAF of New	255	207	147	9	23	0
TAF of PrevHxRx	95	71	46	2	15	0
TALF	437	317	248	9	17	0
Other	6018	863	504	10	55	0
Total	42591	11571	8131	106	369	5



Conclusion

- PMDT surveillance has been established as paper- and electronic-based system since 2012
- The detection of M/XDR is improving
- However there is still big gap for development in case detection



Challenges and lessons learned

- **Low coverage of DST among risk groups**
- **Limitation of paper-based reporting system**
- **Limited capacity of health care staff at community level to provide care for M/XDR-TB patients**
- **DOT for M/XDR-TB patients**
- **Inadequate living support for M/XDR-TB patients**
- **Guideline for practice staff such as psycho-social support for M/XDR-TB patients, side effect assessment/management**



Next steps for 2017

- Strengthen the case detection
- Improve coverage and quality of PMDT reports to monitor the progress
- Develop web-based R/R system including PMDT module
- Strengthen PMDT in all public hospitals through auditing
“Quality TB Clinic”
- Build capacity of staff at community level through training, practice guide
- Secure the external fund for living support



Thank you



<p>รวมพลัง ยุติ วัณโรค</p> 	<p>UNITE TO END TB</p> 
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