



World Health Organization
WHO Global Task Force on TB Impact Measurement
Sub-group on TB prevalence surveys
Data analysis workshop for national TB prevalence surveys
19-22 February 2019
Geneva, Switzerland

AGENDA

Objectives

- 1) To facilitate the conduct and finalization of the analysis of data from national TB prevalence surveys that have been recently completed (or nearly completed) in Myanmar, Namibia, South Africa and Viet Nam.
- 2) To promote the standardization of analytical approaches and reporting of results from recently completed (or nearly completed) national TB prevalence surveys in Myanmar, Namibia, South Africa and Viet Nam.

Expected Outcomes

- 1) Standardized descriptive summaries of each prevalence survey dataset, including representativeness, missing data and risk factors (e.g. age, sex, HIV status, previous history of TB).
- 2) Provisional estimates of the prevalence of pulmonary TB disease among survey populations.
- 3) Provisional results of trends since the previous survey for Myanmar and Viet Nam.

List of participants and group composition

Country	Affiliation
Namibia	
Albertina Thomas	MoH, Namibia
Nicholus Mutenda	MoH, Namibia
Nunurai Ruswa	MoH, Namibia
Jens Levy	KNCV, Netherlands
M.N Farid (lead analyst)	NIHRD, Indonesia
Farai Mavhunga	WHO, AFRO
Myanmar	
Cho Cho San	NTP/MoH, Myanmar
Ikushi Onozaki	WHO Myanmar
Norio Yamada (lead analyst)	RIT/JATA, Japan
Kiyohiko Izumi	RIT/JATA, Japan
Babis Sismanidis	TME/GTB/WHO HQ
Marina Tadolini	TME/GTB/WHO HQ
South Africa	
S'celo Dlamini	NDoH, South Africa
Farzana Ismail	NTRL, South Africa
Samuel Manda	SA MRC, South Africa
Phaleng Maribe	WHO/HSRC, South Africa
Sizulu Moyo	HSRC, South Africa
Sian Floyd (lead analyst)	LSHTM, UK
Irwin Law	TME/GTB/WHO HQ
Ken Castro	USAID, USA
Viet Nam	
Binh Hoa Nguyen	NTP/MoH, Viet Nam
Nguyen Viet Hai	NTP/MoH, Viet Nam
Alyssa Finlay	US CDC, Viet Nam
Veriko Mirtskhulava	KNCV, Netherlands
Edine Tiemersma (co-lead analyst)	KNCV, Netherlands
Philippe Glaziou (co-lead analyst)	TME/GTB/WHO HQ
Others	
Katherine Floyd	TME/GTB/WHO HQ
Chris Gilpin	LDR/GTB/WHO HQ
Kekeletso Kao	FIND, Switzerland
Samuel Schumacher	FIND, Switzerland
Amy Bloom	USAID, USA

Time	Topic	Presenter
Analysis workshop for national TB prevalence surveys		
Day 1: Tuesday, 19 February 2019		
<i>Understanding and describing the dataset</i>		
09:00-09:30	<u>Opening:</u> Workshop objectives, an overview of the agenda and introduction of participants	Katherine Floyd
09:30-10:15	<u>Presentation:</u> Recommended analytical approaches for the analysis of TB prevalence survey data: an overview	Babis Sismanidis
10:15-10:45	<u>Presentation:</u> Is the sample self-weighted?	Philippe Glaziou
10:45 - 11:00 coffee break		
11:00-12:30	<u>Group Work (Part 1):</u> Review the sampling design, define weights as needed and generate summary figures	All in country groups
12:30 - 13:30 lunch		
14:00-14:10	<u>Presentation:</u> Complete the flowchart and generate summary figures	Irwin Law
14:10-15:30	<u>Group Work (Part 2):</u> Description and assessment of the completeness and internal consistency of the core data by completing the flowchart and generating summary figures	All in country groups
15:30 - 15:45 coffee break		
15:45-16:15	<u>Group Work (Part 2 cont.)</u>	All in country groups
16:15-17:30	Feedback to the whole group including discussion of challenges and troubleshooting: <ol style="list-style-type: none"> 1. Present sampling design and describe weights 2. Present the flowchart and summary figures with attention to missing data and protocol violations: <ol style="list-style-type: none"> a. Enumerated/eligible/participants b. Missing symptom and CXR results c. Missing laboratory results e.g. smear, culture, Xpert, HIV 	Plenary
17:30-18:00	Debriefing	Lead analysts and facilitators only

Time	Topic	Presenter
Day 2: Wednesday, 20 February 2019 <ul style="list-style-type: none"> <i>Defining a survey TB case</i> <i>Using cluster-level analysis and model 1 (CC): what is the prevalence of bacteriologically-confirmed TB?</i> 		
09:00-09:15	Review of day 1 and plan for the day	Babis Sismanidis Irwin Law
09:15-11:00	<u>Presentation (interactive)</u> : Use of Xpert and culture in national TB prevalence surveys	Irwin Law Chris Gilpin Philippe Glaziou Babis Sismanidis
11:00 - 11:15 coffee break		
11:15-12:00	<u>Presentation (interactive – cont.)</u> : Use of Xpert and culture in national TB prevalence surveys	Irwin Law Chris Gilpin Philippe Glaziou Babis Sismanidis
12:00-13:00	<u>Group Work (Part 3)</u> : <ol style="list-style-type: none"> Defining a bacteriologically-confirmed TB survey case Specific outcome for repeat surveys (Myanmar and Viet Nam) 	All in country groups
13:00 - 14:00 lunch		
14:00-14:15	<u>Presentation</u> : Cluster-level analysis and model 1	Babis Sismanidis
14:15-15:45	<u>Group Work (Part 4)</u> : Estimating prevalence using cluster-level analysis and model 1	All in country groups
15:45 - 16:00 coffee break		
16:00-17:00	Feedback to the whole group including discussion of challenges and troubleshooting: <ol style="list-style-type: none"> Describe how a TB case was defined Defining who is not a TB case and for whom data need to be imputed Preliminary results for cluster-level analysis and model 1 	Plenary
17:00-17:30	Debriefing	Lead analysts and facilitators only

Time	Topic	Presenter
Day 3: Thursday, 21 February 2019 <ul style="list-style-type: none"> <i>Using model 2 (MI+MI) and model 3 (MI+IPW): what is the prevalence of bacteriologically-confirmed TB?</i> <i>Introduction to analysis of repeat surveys</i> 		
09:00-09:15	Review of day 2 and plan for the day	Babis Sismanidis Irwin Law
09:15-09:45	<u>Presentation</u> : imputation – what and why?	Babis Sismanidis
09:45-10:45	<u>Group Work (Part 5)</u> : Estimating the prevalence of bacteriologically-confirmed TB from survey results for models 2 and 3	All in country groups
10:45 - 11:00 coffee break		
11:00-13:00	<u>Group Work (Part 5)</u> : cont.	All in country groups
13:00 - 14:00 lunch		
14:00-14:45	<u>Presentation</u> : Analysis of repeat surveys, methods and example	Philippe Glaziou
14:45-15:30	<u>Group Work (Part 5)</u> : cont.	All in country groups
15:30 - 15:45 coffee break		
15:45-16:15	<u>Group Work (Part 5)</u> : cont.	All in country groups
16:15-17:30	Feedback to the whole group including discussion of challenges and troubleshooting: <ol style="list-style-type: none"> Current status of analysis and methodological challenges Preliminary results for models 2 and 3 	Plenary
17:30-18:00	Debriefing	Lead analysts and facilitators only

Time	Topic	Presenter
Day 4: Friday, 22 February 2019 Analysis of repeat surveys: Myanmar and Viet Nam Continued analysis using models 2 and 3: Namibia and South Africa		
09:00-09:15	Review of day 3 and plan for the day	Babis Sismanidis Irwin Law
09:15-10:45	<u>Group Work (Part 5)</u> : cont.	Namibia, South Africa
	<u>Group Work (Part 6)</u> : Repeat survey analysis	Myanmar, Viet Nam
10:45 - 11:00 coffee break		
11:00-13:00	<u>Group Work (Part 5 and 6)</u> : cont.	All in country groups
13:00 - 14:00 lunch		
14:00-15:30	Final feedback from country teams and next steps	Plenary