



Evaluation of new TB diagnostics:

A capacity building workshop for public sector institutions in India

National Institute for Research in Tuberculosis (NIRT), Foundation for Innovative New Diagnostics (FIND), McGill International TB Centre & McGill Global Health Programs

8 – 12 December, 2014

National Institute for Research in Tuberculosis (NIRT), 1, Mayor Sathyamoorthy Road, Chetput,
Chennai - 600 031

COURSE SCHEDULE: OUTLINE

Day	Date	Time	Major themes
1	Dec 8, Mon	9.00 AM – 5.00 PM	Landscape, policy process, evidence, technology demonstrations
2	Dec 9, Tues	9.00 AM – 5.00 PM	Architecture of an evaluation study, reference standards Small groups: protocol development
3	Dec 10, Wed	9.00 AM – 5.00 PM	Architecture of a demonstration study and clinical impact Small groups: protocol development
4	Dec 11, Thur	9.00 AM – 5.00 PM	Architecture of a costing study, CEA and implementation study Small groups: protocol development
5	Dec 12, Fri	9.00 AM – 2.00 PM	Presentation of protocols and feedback

Supported by



Day 1, Dec 8, 2014 [Monday]

Time	Lecture	Faculty
8.30 – 9.00 AM	Registration	
9.00 – 9.45 AM	Welcome, introduction and workshop goals	S Swaminathan & M Pai
9.45 – 10.15 AM	Introduction of new diagnostics in RNTCP: process and evidence required	M Ghedia
10.15 – 11.00 AM	New TB diagnostics: landscape and pipeline	C Boehme
11.00 – 11.20 AM	Coffee	
11.20 – 11.50 AM	Achieving convergence between emerging treatment regimens and diagnostics	P Dewan
11.50 – 12.30 PM	TB dx evaluation trials in India: experiences and lessons	N Raizada
12.30 – 1.20 PM	Lunch	
1.20-1.40 PM	Tech demo: TrueNAT assay	C Nair, Molbio
1.40-2.00 PM	Tech demo: Serological rapid test	S Laal, TB Biosciences
2.00 – 2.20 PM	Tech demo: Alere q assay	G Johns, Alere
2.20-2.40 PM	Tech demo: ReaSLR CSM kit	P Kulkarni, ReaMetrix
2.40-3.10 PM	Coffee	
3.10 – 3.30 PM	Tech demo: Beta-lactamase assay	J Manwell, GBD Bio
3.30-3.50 PM	Tech demo: Genedrive assay	M Walls, Epistem
3.50-4.10 PM	Tech demo: Automated smear microscopy	S Kennedy, App Vis Sci
4.10-4.30 PM	Tech demo: CADx for TB	M Acharyya, Adevnio
4.30 – 5.30 PM	Q&A and formation of small groups for protocols	

Day 2, Dec 9, 2014 [Tuesday]

Time	Lecture	Faculty
9.00 – 9.45 AM	TB diagnostics evaluation: phases, definitions, overarching study plan, and protocol components	C Boehme
9.45 – 10.30 AM	Architecture of an evaluation study	C Boehme
10.30 – 11.00 AM	Coffee	
11.00 – 11.45 PM	Establishing a process for new tool development, validation and policy in India: Panel discussion	S Swaminathan M Ghedia R Ramachandran N Raizada S Laal C Nair M Pai (moderator)
11.45 – 12.30	Panel discussion on reference standards	C Boehme S Swaminathan N Raizada

		S Schumacher R Ramachandran M Ghedia
12.30 – 1.15 PM	Lunch	
1.15 – 2.00 PM	Components of an evaluation study protocol	C Boehme
2.00 – 2.40 PM	Computing sample size/power	S Schumacher
2.40 – 3.00 PM	Coffee	
3.00 – 4.30 PM	Small group work on protocols	
4.30 – 5.00 PM	Q&A on questions arising from protocol development	

Day 3, Dec 10, 2014 [Wednesday]

Time	Lecture	Faculty
9.00 – 10.00 AM	Architecture of a demonstration study and components of protocol	C Boehme
10.00 – 10.40 AM	Evaluation of impact in a programmatic setting	M Ghedia & R Ramachandran
10.40 – 11.00 AM	Coffee	
11.00 – 12.00	Challenges in measuring impact of new diagnostics	S Schumacher & M Pai
12.00 – 1.00 PM	Lunch	
1 – 2.00 PM	Computing sample size/power in impact studies	S Schumacher
2.00-2.30 PM	Coffee	
2.30 – 4.00 PM	Small group work on protocols	
4.00 – 5.00 PM	Q&A on questions arising from protocol development	

Day 4, Dec 11, 2014 [Thursday]

Time	Lecture	Faculty
9.00 – 9.45 AM	Test validation in childhood TB	S Swaminathan
9.45 – 10.30 AM	Estimating costs in diagnostic studies	H Sohn
10.30 – 11.00 AM	Coffee	
11.00 – 12.00	Cost-effectiveness analyses	H Sohn
12.00 – 1.00 PM	Lunch	
1 – 2.00 PM	Implementation/operational research in diagnostics	S Satyanarayana
2.00-2.30 PM	Coffee	
2.30 – 4.00 PM	Small group work on protocols	
4.00 – 5.00 PM	Preparation of protocol presentations	

Day 5, Dec 12, 2014 [Friday]

Time	Lecture	Faculty
9.00 – 9.30 AM	Presentation of protocol	Group 1
9.30 – 10.00 AM	Presentation of protocol	Group 2
10.00 – 10.30 AM	Presentation of protocol	Group 3
10.30 – 11.00 AM	Coffee	
11.00 – 11.30	Presentation of protocol	Group 4
11.30 – 12.00 PM	Presentation of protocol	Group 5
12.00 – 1.00 PM	Open discussion, next steps, feedback	S Swaminathan & M Pai
1.00 – 2.00 PM	Lunch and closure	

Small groups and facilitators:

Name of the group	Technology	Facilitator
Team Koch	Improved smear microscopy	M Ghedia and R Ramachandran
Team Mullis	Next-generation CB-NAATs	N Raizada
Team Pasteur	Serological, antibody assay	S Schumacher
Team Buchner	Enzyme-based detection	H Sohn
Team Rontgen	Digital X-ray and CAD	S Srinath