UNIVERSITY OF BIRMINGHAM

स्वास्थ्य अनुसंधान विभाग
Department of Health Research
स्वास्थ्य एवं परिवार कल्याण मंत्रालय
Ministry of Health and Family Welfare
सत्यमेव जयते

icmr INDIAN COUNCIL OF MEDICAL RESEARCH | NIRT NATIONAL INSTITUTE FOR RESEARCH IN TUBERCULOSIS

INTERNATIONAL MASTERCLASS ON SYSTEMATIC REVIEWS AND META -ANALYSIS OF DIAGNOSTIC TEST ACCURACY STUDIES

Date : 05–07 Aug 2026

Venue: ICMR-NIRT,Chennai

Organizing Chairperson:
Dr Srinath Satyanarayana, Director, ICMR- NIRT

Organizing Secretary :
Dr Leeberk Raja I, Scientist – E, ICMR- NIRT

Organizing Team:
Dr Mukesh Kumar S | Dr Vignes Anand S
Dr Adhin Bhaskar | Dr Jefferson Daniel
Dr Sharon Suresh

Organized by:
Technical Resource Centre,
ICMR-NIRT, Chennai

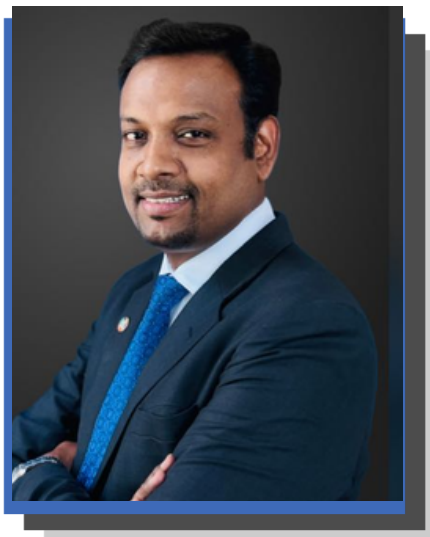
Funded by:
Department of Health Research,
Government of India

FACULTY

Prof Yemisi Takwoingi is Professor of Test Evaluation and Evidence Synthesis and Head of Applied Health Sciences at the University of Birmingham. A biostatistician and methodologist, she leads and contributes to diagnostic evaluation and evidence synthesis research, serves on the Cochrane Editorial Board and PRISMA Executive and is an editor of the Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy.

Dr Clare Davenport is a Consultant in Public Health Medicine and Associate Clinical Professor at the University of Birmingham. She has extensive experience in systematic reviews of test accuracy and has contributed to QUADAS-C and QUADAS-3. She is a Senior Editor for Cochrane DTA reviews and has contributed to the Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy.

Dr Jacqueline Dinnes is a Senior Research Fellow in test evaluation and evidence synthesis at the University of Birmingham. Her work focuses on diagnostic test evaluation, systematic reviews, and methodological research. She is an Editor for Cochrane DTA reviews and contributed to the Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy. She is a senior member of key NIHR and Warwick-Birmingham evidence synthesis groups.



Dr Leeberk Raja leads the TRC at ICMR-NIRT and led key DTA reviews on molecular diagnostics that informed WHO's TB guidelines. He is also the recipient of the Kenneth Warren Prize in 2025 by the Cochrane collaboration. He serves on the editorial board of BMJ Evidence-based Medicine and leads the multi-centric INSHORT trial on TB meningitis

IN-PERSON WORKSHOP SCHEDULE

Day 1 05th August 2026	Day 2 06th August 2026	Day 3 07th August 2026
8.45–9.00 **ARRIVAL / REGISTRATION**	**8.45–9.00** **ARRIVAL**	**8.45–9.00** **ARRIVAL**
9.00–9.15 Introduction and overview of course	9.00–10.00 7: Meta-analysis of test accuracy	9.00–10.30 13: Practical – Using Stata/R for meta-analysis of a single test
9.15-10.15 1A: Understanding test accuracy 1B: Exercise		
10.15-10.45 2: Steps in a diagnostic systematic review	10.00–11.00 8A: Planning analyses 8B: Exercise	10.30–11.00 14: Practical – Using R for test comparisons and investigations of heterogeneity
10.45–11.00 **BREAK**	**11.00–11.15** **BREAK**	**11.00–11.15** **BREAK**
11.00–12.00 3A: Formulating a DTA review question and eligibility criteria 3B: Exercise	11.15–13.00 9: Practical – Using RevMan and R output for meta-analysis of a single test (Part I and Part II)	11.15–12.15 14 (cont): Practical – Using R for test comparisons and investigations of heterogeneity
12.00–13.00 4: Study designs & reference standards		12.15–13.00 15: Interpreting and presenting review findings
13.00–14.00 **LUNCH**	**13.00–14.00** **LUNCH**	**13.00–14.00** **LUNCH**
14.00–15.00 5: Sources of bias and variability	14.00–15.00 10: Meta-regression – investigating heterogeneity & test comparisons	14.00-14.30 16: Exercise – Understanding, interpreting and presenting review findings
		14.30–15.30 17: Recommendations for practice – accuracy in the evaluation of tests
15.00–15.15 **BREAK**	**15.00–15.15** **BREAK**	
15.00–15.30 6A: Methodological quality assessment and QUADAS-3	15.15–16.30 11: Practical – Using RevMan and R output for test comparisons and investigations of heterogeneity	15.30-16.00 Discussion, questions and feedback
15.45–17.15 6B: QUADAS-3 practical	16.30–17.10 12: Understanding and presenting numerical findings	**CLOSE**
17.15–17.30 Discussion	17.10–17.30 Discussion	

REGISTRATION DETAILS

What to expect?

- Foundational understanding of Diagnostic Test Accuracy (DTA) methodology taught by leading global experts in DTA reviews
- Hands-on training in using the QUADAS-3 tool for risk of bias assessment
- Hands-on training in performing meta-analysis using the “R”.

Who should attend

- Hold one of the following degrees: MBBS, BDS, MD/MS/MPH, or a PhD in Medicine or allied disciplines.
- Have authored or co-authored at least one systematic review publication in a PubMed-indexed journal or have proven experience in systematic reviews.
- Participants may be working as faculty or researchers in government or private organisations across India

No Registration Fee

- Participants will not be provided with accommodation or TA/DA
- Selected participants will be notified through email.

APPLICATION DEADLINE - 10 July 2026

Kindly use the following link or scan the QR code to access the application form:

https://forms.gle/s7ByqZEkdy3ikEiZ9

For any queries, kindly get in touch with us:

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