





10th Advanced Course on Diagnostics (ACDx)

Les Pensières Center for Global Health, Annecy 15th – 20th September 2019

DRAFT OF PROGRAMME

OVERALL LEARNING OBJECTIVES

ACDx advocates for the value of diagnostics in global health and builds capacity for critical decision making on diagnostics in the developing world through partnerships and networks.

The 2019 ACDx will have a special emphasis on Access to Quality-assured Diagnostics, especially related to antimicrobial resistance and epidemic preparedness.

FORMATS FOR LEARNING

Lectures, expert panels, roundtables, debates, breakout sessions, technology forum with demonstrations and open discussions.

ACKNOWLEDGMENT

We are very grateful for their support to:



DAY 1: SUNDAY 15th SEPTEMBER 13:30 – 18:20

Opening of ACDx 2019	
12:00 – 13:30	Registration and lunch
13:30 – 14:00	Welcome to ACDx & introduction
	Alain Mérieux, Rosanna Peeling & Bénédicte Pansier
Session 1: Rol	e and value of diagnostics in Global Health
Co-Chairs: Pr Ros	anna Peeling, LSHTM
Objectives:	
	the role of diagnostics in global health overview on the value of diagnostics in Global Health
14.00 - 14.45	LECTURES:
	The Value of Diagnostics in Global Health
	Rosanna Peeling
	Role of diagnostics in clinical medicine
	David Mabey
	Rapid diagnostics in clinical decision support Valerie D'Acremont
14:45 – 15:00	Q&A
15:00 – 15:40	Celebrating 10 years of progress made in the field of diagnostics – Panel Discussion followed by Q&A
	Diagnostics in outbreaks of Ebola and Zika Amadou Sall
	FIND's achievements in the last 10 years
	Catharina Boehme
	The Merieux Foundation and its networks worldwide
	Francois-Xavier Babin
15:40 – 16:10	Break
16:10 – 17:00	Celebrating 10 years of diagnostic innovation – Panel Discussion followed by Q&A Industry panel: Françoise Gay-Andrieu, BioMérieux; Renuka Gadde, BD; Duncan Blair, Abbott; Mark Davis, Mologic; Philip Jacon, Cepheid (panel to be confirmed)
17:00 – 17:40	Looking forward to the next 10 years:
	EU ValueDx project
	Hermann Goossens
	Accelerating access to diagnostics
	Rosanna Peeling
	Latin America IVD Alliance: bringing stakeholders together Carlos Gouvea
17:40 – 18:10	Novel approaches for Diagnostics R&D - thinking outside the box:
	Diagnostics and vaccines
	Chris Nelson (to be confirmed), James Cummings
	Diagnostics and drugs
	Tim Jinks (to be confimed)
18:10 – 18:20	End of day 1 - Session 1 evaluation
18:20 – 19:00	Preparation and viewing of informal biographies
19:00	Welcome drink
19:30	Dinner



DAY 2: MONDAY 16th SEPTEMBER

09:00 - 12:30

Session 2: Diagnostic system strengthening to improve access Co-Chairs: Dr François-Xavier Babin, Fondation Mérieux & Amadou Sall, Institut Pasteur Dakar	
Objectives:	
 Review the laboratory techniques and their use in a tiered laboratory system Review the transversal aspects of building a tiered laboratory system 	
09:00 – 09:30	Lecture: Overview of the laboratory techniques available in routine medical laboratories François-Xavier Babin, FMx
09:30 – 09:50	 Strategic decision making: considerations to scale up/down diagnostic interventions Collect and transfer of samples (Pre-analysis) Post-analysis Data management and epidemiology Antoine Pierson, IQLS
09:50 – 10:10	Mapping and surveillance – Panel discussion ? - Madagascar and the AMR surveillance network; - Niger mapping Dr Saida, MOH Madagascar; Nicolas Steenkeste, FMx
10:10 – 10:40	Break
10:40 - 11:00	Rating a laboratory national network: Labnet Scorecard Nqobile Ndlovu, ASLM
11:00– 11:20	Leadership and governance: building a National Laboratory Policy and Strategic Plan - presentation of the Global Laboratory Leadership Program (A Fellowship for the Development of Laboratory Leaders) Virginie Dolmazon, WHO
11:20 – 11:40	Laboratory data systems Raiva Simbi (MOH, Zimbabwe)
11:40 – 12:00	Biosecurity/biosafety Natascha Griffith, CDC
12:00 – 12:20	Developing best practice for biobanking Emmanuelle Gormally, ESTBB
12:20 – 12:30	Session 2 evaluation
12:30	Lunch



Session 3: Diagnostic system sustainability - Partnerships and networks Co-Chairs: Dr Geoffrey Chipungu (UNICEF) & Dr Mary Lancaster (DTRA)

Objectives:

- Explore options for public & private partnerships to build sustainable diagnostic systems to meet public health needs
- Learn about development and sustainability of laboratory systems
- Learn about partners who need to work together to increase access and to communicate through networks, websites and other opportunities

14:00 – 14:15	Key considerations for sustainability of laboratory systems ResaoLab: West-Africa lab network with lab policy regulation, quality management, lab-based surveillance (outbreaks, diseases to be declared) Jean Sakandé
14:15 – 14:30	CDC experiences in laboratory health systems strengthening through PEPFAR Heather Alexander
14:30 - 14:45	Public-Private Partnerships and sustainable laboratory systems All-inclusive pricing experience Trevor Peter
14:45 – 15:00	Uganda's Infectious Disease Institute Yuka Manabe
	Other examples, e.g. Lab for Life: BD and country MOHs (suggestion)
15:00 – 15:30	Debate on Public Private Partnerships 2 public + 2 private institutions on stage: discussion with participants
15:30 – 16:00	Break
16:00 – 16:15	Examples/lessons learned from existing networks: Kenya and Cambodia Kenya Zoonotic Disease Unit
10.00 - 10.10	Mathew Muturi, Kenya National Center for Disease Control
16:15 – 16:30	Cambodia network of clinical, reference, and private labs (to be confirmed)
16:30 - 16:45	Examples from course participants
16:45 – 17:15	General Discussion on Sustainability, Partnerships and Networks for diagnostics Moderated by Mary & Geoffrey
17:15 – 17:30	End of day 2 - Session 3 evaluation

19:00 Dir



DAY 3: TUESDAY 17th SEPTEMBER

09:00 - 12:30

Session 4: WHO Essential Diagnostics List (EDL) and evaluation of test performance Co-Chairs: Dr Mercedes Perez Gonzalez (WHO) & Dr Catharina Boehme (FIND)	
Objectives:	
 Know the WHO Essential Diagnostics List (EDL) Learn about evaluation of test performance Review the state-of-the-art diagnostics for major infectious diseases 	
09:00 – 09:30	 Lectures: Basic performance characteristics of a diagnostic test Sensitivity, specificity, repeatability and cross-reactivity Rosanna Peeling, LSHTM Evaluation of test performance Types and objectives of performance evaluations along the lifecycle of the product Importance of the responsibility of developers and users (lab-based conditions) in terms of test validation Catharina Boehme, FIND
9:30 – 10:00	ROUNDTABLE Country perspective on local product evaluation (Mozambique example of Early Infant HIV Diagnostic implementation, TB in Africa?) TBD
10:00 – 10:30	Break
10:30 – 11:00	 WHO Model List of <i>In Vitro</i> Diagnostics Objectives of the EDL Process for development and update Implementation plan Link with other WHO initiatives including primary health care, universal health coverage
11:00 – 11:30	 ROUNDTABLE Example of a country implementation process (Kamini Walia, Indian Council for Medicai Research) SAGE IVD member perspective (can discuss the role of the SAGE and discuss link with implementation at country level (Prof Tony Emeribe from Nigeria) Industry: would recommend having an association rather than a specific company (Jesus Rueda has been very involved)
11:30 – 12:20	Review the state-of-the-art diagnostics for major infectious diseases POSTERS SESSION Noah Fongwen and other LSHTM fellows
12:20 – 12:30	Session 4 evaluation
12:30	Lunch



14:00 - 17:45

Session 5: Access to quality-assured diagnostics Co-Chairs: Dr Trevor Peter (CHAI) & Dr Benjamin Djoudalbaye (Africa CDC) Objectives: • Learn about access to diagnostics for public health programmes • Learn about policy issues in access and share best practices	
14:00 – 14:15	Current Trends in Diagnostics Access Complementary use of laboratory and point-of-care testing Jennifer Cohn, EGPAF
14:15 – 14:30	Laboratory network optimization Raiva Simbi (Ministry of Health and Child Care Zimbabwe)
14:30 – 14:45	Procurement optimization Ademola Osigbesan, UNITAID
14:45 – 15:00	Best practices in the distribution of diagnostic products Carlos Gouvea, ALADDIV
15:00 - 15:30	Q&A
15:30 – 16:00	Break
16:00 – 16:15	Priority Initiatives in Diagnostics Quality WHO Pre-qualification and the Collaborative Regulatory Procedure for Diagnostics Deusdedit Mubangizi (WHO)
16:15 – 16:30	Moving towards laboratory accreditation: SLIPTA and SLMTA Nqobile Ndlovu (ASLM)
16:30 – 16:45	Rapid Test Quality Initiative Heather Alexander (United States CDC)
16:45 – 17:00	Quality Management Tjeerd Datema, DATOS
17:00 – 17:15	Post-Market Surveillance and the Global Diagnostics Working Group Anita Sands, WHO
17:15 – 17:30	Q&A
17:30 – 17:45	End of day 3 - Session 5 evaluation
19:00	Dinner



DAY 4: WEDNESDAY 18th SEPTEMBER – INNOVATION DAY

08:30 - 13:00

Session 6: Technology forum & Innovative concepts Co-Chairs: Dr Béatrice Halpaap (WHO TDR) & Dr Sebastien Quesney (Institut Pasteur)	
Objectives:	
	new technologies in the pipeline I the challenges faced by test developers and suggest how to accelerate access to quality-assured
	vation as perspective for Global Health
08:30 – 09:00	Lecture: Challenges in developers a diagnostic test What does innovation mean?
	- Example of diaTROPix
09:00 - 09:45	Sebastien Quesney and Amadou Sall ROUNDTABLE: How to accelerate access to quality-assured diagnostics - Mark Davis, Mologic
	 Jean-François Fougère, BioRad, or another to be determined Isabelle Tongio, BioMérieux Philippe Jacon, Cepheid
	 Jean-Claude Manuguerra-CIBU (Biological Emergency Response Cell) - Institut Pasteur Paris Theresa Schein, CNine Biosolutions
09:45 – 10:30	 ROUNDTABLE: Social innovations to bring diagnosis to all and reach the 'last mile' (Facilitator: Beatrice Halpaap) Presentations (4 min + 2 min questions for clarification): Noah Fongwen, Africa CDC: the Health Centre by Phone Beatrice Halpaap, TDR: the Social innovation in Health Initiative (SIHI) Pradeep Kakkattil, UNAIDS: the Health Innovation Exchange Mia Hoole, BecauseStories: telling the story Rosanna Peeling: social innovations to eliminate visceral leishmaniasis Joe Tucker (TBC) J-F de Lavison (TBC)
10:30 – 11:00	Break
11:00 – 12:45	 WORKSHOPS Workshop on New Technologies with industries (film, poster, demo) Workshop on Social Innovation SIHI Film (15 min), group brainstorm on how can social innovation enhance your work (20 min), pitch innovation in Dragon's Den style for jury selection (15 min)
12:45 – 13:00	End of dou 4. Second Coveluction
12:40 - 13:00	End of day 4 - Session 6 evaluation
13:00	Lunch
	Afternoon free for networking, tutorials and special sessions
19:00	Dinner



DAY 5: THURSDAY 19th SEPTEMBER

09:00 - 12:30

Session 7: Access to diagnostics for epidemic preparedness in the context of One Health Co-Chairs: Dr Mark Perkins (WHO)	
Objectives:	
 Review infectious diseases with epidemic potential and their diagnostics Understand the challenges of access to diagnostics in outbreak situations 	
09:00 – 09:15	Diagnostics in previous Ebola outbreaks (2014; 2018) and lessons learned Benjamin Djoudalbaye
09:15 – 09:30	Update on new outbreaks Desmond Williams, US CDC Liberia
09:30 - 10:00	Outbreaks in refugees populations - Studying the causes of pneumonia in refugees population in Lebanon Josette Najjar, FMX (TBC)
	- Study on lower acute respiratory infections in Rohingya refugee camps to improve and adapt patient care in a humanitarian crisis Valentina Picot, FMX (TBC)
10:00 – 10:15	Q&A
10:15 – 10:45	Break
10:45 – 11:15	 Critical role of diagnostics in outbreak preparedness and management Someone from FIND (Catharina Boehme or Cassandra Kelly) WHO Blueprint priority diseases which have important unmet diagnostic needs FIND strategy for diagnostics preparedness & outbreak response (global forum similar to CEPI/Gavi for vaccines, technical solutions, response speed and market sustainability)
11:15 – 11:30	The FAO-OIE-WHO collaboration to address health risks at the human-animal- ecosystem interfaces A veterinary from OIE (TBC)
11:30 – 11:45	Example of H5N1 outbreak in 2016 in Ouest and Central Africa Béatrice Mouillé, FAO (TBC)
11:45 – 12:20	ROUNDTABLE Access to stock of diagnostic tests during outbreaks Olivier Ronveau, WHO (Meningititis Outbreaks)
12:20 – 12:30	Session 7 evaluation
	Lunch



Session 8: Access to diagnostics for AMR Co-Chairs: Dr Nadia Khelef (Institut Pasteur) & Dr Cassandra Kelly (FIND) Objectives: Identify critical diagnostics and market solutions to address AMR Understand the barriers faced by diagnostic test developers	
	blicies to overcome barriers faced by AMR diagnostic test developers
14:00 – 14:15	General introduction Cassandra Kelly, FIND
14:15 – 14:30	AMR Diagnostic Technology Landscape Maurine Murtagh (Consultant, Diagnostics for Global Health)
14:30 – 15:00	Country Needs Sarabjit S Chadha, FIND India (10 min, views from country needs) 3 to 4 Participants from Country (Africa or South America) - 5-10 min views from country perspective depending on number of participants from countries Open discussion and questions 5 to 10 min depending on number of final speakers – Moderation Nadia Khelef
15:00 – 15:30	Understand the barriers faced by diagnostic test developers – Round Table Clément Fiaux, BioMérieux Sebastien Quesney or Amadou Sall (Institut Pasteur or Institut Pasteur of Dakar) Jo Fitchett or Mark Davis (Mologics), Carolyn Hall (Abbott)
15:30 – 16:00	Reflect on policies to overcome barriers faced by AMR diagnostic test developers Francis Moussy (WHO) Kamini Walia (Indian Council of Medical Research) Participant(s) from countries (African or South American) - 5-10 min views from country perspective depending on number of participants Including Olga Persovic (South Africa) Moderation: Cassandra Kelly
16:00 – 16:30	Break
16:30 – 17:00	 OPEN DISCUSSIONS With panel members and the participants in the room: How to link 3 components? Moderation by Cassandra Kelly and Nadia Khelef Questions to be prepared with speakers and participants
17:00 – 17:30	Simulation exercise using role play to show complexities of access to diagnostic for AMR - Animated by Cassandra Kelly and Nadia Khelef Earlier in the day ?
17:30 – 17:40	End of day 5 - Session 8 evaluation
18:30 – 19:15	Diploma ceremony
20:00	Gala Dinner to celebrate the 10 th anniversary of the Course



DAY 6: FRIDAY 20th SEPTEMBER

09:00 - 12:30

Session 9: Diagnostics for Universal Health Care and global health security Co-Chairs: Rosanna Peeling, LSHTM and Francois-Xavier Babin, FMx Objectives:	
 Review and summarise all access issues in the context of Universal Health Care, clinical medicine, AMR and epidemic preparedness Review of the week 	
09:00 – 09:15	 Sustainable Development Goals: Diagnostics systems that leave no one behind – overview Integrating technological and social innovation for diagnostics Diagnostics to strengthen health systems Bringing primary health care into the diagnostic system Community engagement in disease control and elimination Connected diagnostics for epidemic preparedness Diagnostics to combat AMR
09:15 - 09:30	All participants prepare post-it notes on their take home messages on 3 of the above topics they find most useful
09:30 - 09:45	No Universal Health Care without Diagnostics Catharina Boehme, FIND
09:45 – 10:30	Summary of ACDx participants' take home messages on each topic (6 participants selected to present, 5 min each)
10:30 - 10:40	Synthesis of take home messages Francois-Xavier Babin, FMX
10:30 – 11:00	Break
11:00 – 12:00	OPEN DISCUSSION on 10 th ACDx
	This week in review
12:00 - 12:10	End of day 6 - Session 9 evaluation & global evaluation
12:10 – 12:30	Summary & closure Rosanna Peeling, François-Xavier Babin
12.30 - 14.00	Lunch

End of ACDx 2019

