



9th Advanced Course on Diagnostics (ACDx)

Les Pensières Center for Global Health, Annecy
16th – 21st September 2018

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 2018 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 16th SEPTEMBER

Opening of ACDx 2018

12:00 - 14:00 **Registration and lunch**

14:00 - 14:45 **Welcome to ACDx & introduction**

Alain Mérieux, Rosanna Peeling & Bénédicte Pansier

Session 1: Overview of the role of diagnostics in Global Health

Co-Chairs: Pr Rosanna Peeling, LSHTM & Dr Béatrice Halpaap, WHO TDR

Objectives:

- Learn about the role of diagnostics in global health
- Review access to quality assured diagnostics in the context of the Sustainable Development Goals

14:45 - 15:00 **Guiding clinical decision-making**

François-Xavier Babin

15:00 - 15:15 **Guiding public health emergency response**

Amadou Sall

15:15 - 15:30 **Diagnostics as part of the AMR response**

Alex Costa

15:30 - 15:45 **Q&A**

15:45 - 16:15 **Break**

16:15 - 16:40 **SPECIAL SESSION OPENING ADDRESS**

Social innovation, a global health perspective

John Reeder

16:40 - 17:30 **PANEL DISCUSSION**

Social Innovation, a critical element of Universal Health Coverage and 'universal diagnosis'

Facilitator: John Reeder

Phyllis Awor, Joe Tucker, Isabelle Wachsmuth, Asiya Odugleh-Kolev, Jean-François de Lavison & Beatrice Halpaap

End of day 1 - Session 1 evaluation

Chloé Masetti

17:30 - 18:00 **Preparation and viewing of informal biographies**

18:30 **Welcome drinks**

19:00 **Dinner**

DAY 2: MONDAY 17th SEPTEMBER

Session 2: Access to diagnostics: Lessons learned

Co-Chairs: Dr Heather Alexander, CDC & Dr. Trevor Peter, CHAI

Objectives:

- Learn about access to diagnostics for public health programmes
- Learn about policy issues in access and share best practice

09:00 - 09:15 The complexity of access

Rosanna Peeling

09:15 - 09:30 Innovation in diagnostics access

Zach Katz

09:30 - 09:45 Behavioural economics and test uptake: HIV, STDs & Hepatitis

Joe Tucker

09:45 - 10:15 ROUNDTABLE 1

Accelerating regulation, technology assessment & policy development

Carlos Gouvea, Chinyere Ilonze & Rosanna Peeling

10:15 - 10:45 Break

10:45 - 11:15 ROUNDTABLE 2

Financing, procurement: a diagnostic equivalent of GAVI ?

Michel Bonnier, Robert Hall, Amrita Sukrity & Herilinda Temba

11:15 - 11:45 ROUNDTABLE 3

Supply chain management, distribution and quality assurance

Heather Alexander, Joseph Kitukulu, Zach Katz & Trevor Peter

11:45 - 12:30 DEBATE

Will technology transfer and local production improve access?

Alex Costa & Amadou Sall

Session 2 evaluation

Chloé Masetti

12:30 - 14:00 Lunch

Session 3: State-of-the-art Diagnostics in the context of WHO Essential Diagnostics List (EDL)

Co-Chairs: Dr Francis Moussy, WHO & Dr Zach Katz, FIND

Objectives:

- Review the state-of-the-art diagnostics for major infectious diseases
- Brainstorm on innovation needed to improve access

14:00 - 14:15 Opening talk on WHO Essential Diagnostics List (EDL)

Francis Moussy

14:15 - 15:00 ROUNDTABLE

Policy development discussions around EDL:

- **Country perspective**
Olga Perovic, Kamini Walia & Carlos Gouvea
- **Industry perspective**
Amrita Sukrity & Arthur Zeraib

15:00 - 15:30 Break

15:30 - 17:30 State-of-the-art Diagnostics Forum (will focus on diseases on the WHO EDL: HIV, tuberculosis, malaria, hepatitis B and C, syphilis and human papilloma virus)

Stations with posters & presentations that summarize state-of-art diagnostics for each of the disease/syndromes listed above.

Rotation in small groups / 15' presentation

Poster facilitators:

Priyanka Shrestha (Malaria), Noah Fongwen (HPV), Joe Tucker (HIV/Syphilis), Rosanna Peeling (Hepatitis B and C)

Amrita Sukrity & Scott Barnum (Industry posters)

End of day 2 - Session 3 evaluation

Chloé Masetti

19:00 Dinner

Session 4: Development and Access to Essential AMR diagnostics

Co-Chairs: Pr Antoine Andremont, University Paris Diderot and Nadia Khelef, Institut Pasteur

Objectives:

- Explore the criteria for Essential AMR Diagnostics
- Understand the barriers faced by diagnostic test developers
- Reflect on policies to overcome barriers faced by AMR diagnostic test developers

09:00 - 10:00 Diagnostics to guide antibiotic use:

- **Tropical Fevers in Tanzania**
- **Respiratory infections**
- **Enteric infections**
- **Hospital Acquired Infections**

Valérie d'Acremont, Noah Fongwen, Robert Hall & Rosanna Peeling

10:00 - 10:30 Break

10:30 - 12:00 AMR Essential Diagnostics

- **Test developers present their innovation, argue why their tests should be considered essential; what impact would it have on antimicrobial resistance?**
Herve Volland, CEA, France
Amrita Sukrity, Spotsense, India
Tony Cooke, Test & Treat, UK
- **Respondents and course participants critique developers arguments**
- **Test developers discuss the barriers they face in getting their tests approved and introduced**

Facilitator: Daniel Berman

Judges: Olga Perovic, Francis Moussy & Benjamin Djoudalbaye

12:00 - 13:00 ROUNDTABLE

Policy issues regarding AMR diagnostic test introduction: what AMR tests would be priorities for policy development and implementation?

Amadou Sall, Olga Perovic, Francis Moussy, Mentor Ali Ber Lucien & Ken Ng

Open to floor

13:00 - 14:00 Lunch

14:00 - 15:30 BREAKOUT GROUPS

Education and community engagement

- **AMR MOOC**
- **Crowdsourcing for AMR cases for e-learning**
- **Other educational initiatives**

Rosanna Peeling & Joe Tucker

Open to floor

15:30 - 16:00 Break

16:00 - 17:00 OPEN DISCUSSION

Increasing access to AMR Surveillance technologies: opportunities for public-private partnerships

Francoise Gay-Andrieu, Sarabjit Chadha, Ken Lohman, Isabella Ayagah & Antoine Andremont

End of day 3 - Session 4 evaluation

Chloé Masetti

19:00 Dinner

DAY 4: WEDNESDAY 19th SEPTEMBER

Session 5: Access to diagnostics for epidemics preparedness

Co-Chairs: Dr Benjamin Djoudalbaye, Africa CDC & Mr Andrew Hollands, DTRA

Objectives:

- Learn the challenges of access to diagnostics in outbreak situations
- Explore options for collaborative research and development (R&D) and accelerating the pathway to market and adoption for epidemic preparedness

09:00 - 09:05 OPENING SESSION 5

Remarks

Andrew Hollands

09:05 - 09:25 **Diagnostics in 2014 West Africa Ebola Outbreak**

Desmond Williams

09:25 - 09:45 **Diagnostics in 2018 DRC Ebola Outbreak**

Benjamin Djoudalbaye

09:45 - 10:00 **Q&A**

Desmond Williams, Benjamin Djoudalbaye

10:00 - 10:45 **ROUNDTABLE**

Lessons learnt from recent outbreaks (Meningitis, Cholera, Lassa, Plague, Ebola, Zika)

Olivier Ronveaux, Benjamin Djoudalbaye, Heather Alexander, Desmond Williams, Carlos Gouvea & Supaporn Wacharapluesadee

10:45 - 11:15 Break

11:15 - 11:30 **Pathway from R&D to market**

Kent Lohman

11:30 - 11:40 **Q&A**

Kent Lohman

11:40 - 12:30 **ROUNDTABLE**

Overview of the long road from R&D to adoption / Outbreak lessons learned

- **Access to specimens for test development, evaluation and quality assurance**
- **Surge capacity for manufacturing and training**

Isabella Ayagah, Amrita Sukrity, Olivier Ronveaux, Carlos Gouvea, Sung-woo Kim & Francoise Gay-Andrieu

End of day 4 - Session 5 evaluation

Chloé Masetti

12:30 - 14:00 Lunch

Afternoon free for networking, tutorials and special sessions

19:00 Dinner

DAY 5: THURSDAY 20th SEPTEMBER

Session 6: Diagnostic system strengthening to improve access

Co-Chairs: Dr François-Xavier Babin, Fondation Mérieux & Dr Sébastien Cognat, WHO

Objectives:

- Review laboratory Infrastructure required to support global health priorities
- Review challenges in diagnostic systems (laboratory and Point-of-Care test systems) with respect to quality, capacity building, accreditation, data connectivity & governance, biosafety & waste management

09:00 - 09:15 OVERVIEW

Pillars supporting successful implementation and delivery of diagnostics

François-Xavier Babin

09:15 - 10:00

Laboratory systems:

- **Adaptable laboratory network structures within national health care systems**
- **Diagnostic system infrastructure within the health care system**

Alex Costa & Jean Sakandé

10:00 - 10:30

Quality Management is part of the diagnostic system

Tjeerd Datema

10:30 - 11:00

Break

11:00 - 11:15

Evaluation of lab/network

Nqobile Ndlovu

11:15 - 11:30

Human resource management for laboratories

Abdoulaye Nikiema (via Skype)

11:30 - 11:45

Biosecurity and biosafety for laboratory systems

Nicolas Steenkeste

11:45 - 12:00

Developing best practice for biobanking

Emmanuelle Gormally

12:00 - 12:30

Waste management

Natascha Griffith (via Skype)

Session 6 evaluation

Chloé Masetti

12:30 - 14:00

Lunch

Session 7: Diagnostic systems sustainability

Co-Chairs: Nqobile Ndlovu, ASLM & Dr Alex Costa, UNICEF

Objectives:

- Explore options for public & private partnerships to build sustainable diagnostic systems to meet public health needs
- Learn about partners who need to work together to increase access

14:30 - 15:10 **Building and financing sustainable national and regional diagnostic systems to meet public health needs:**

- **Development of the central media making facility and establishment of the national antibiotic resistance surveillance system in Cambodia**
- **Development of a national antibiotic awareness campaign**

Joanne Letchford & Alex Costa

15:10 - 16:00 **BREAKOUT GROUPS**

- Essential elements and common challenges for sustainability of laboratory systems

- Strategies to build sustainable laboratory systems

- PPPs: Role of public-private partnerships (PPP) in strengthening national diagnostics systems

Facilitators: Nqobile Ndlovu, Alex Costa & Nyawira Njeru

16:00 - 16:20 **Break**

16:20 - 16:45 **Report from breakout groups and discussion**

16:45 - 17:45 **KEYNOTE LECTURE**

POC diagnostics for AMR and epidemic preparedness

David Heymann

End of day 5 - Session 7 evaluation

Chloé Masetti

19:00 **Diploma ceremony**

20:00 **Gala Dinner**

DAY 6: FRIDAY 21st SEPTEMBER

Session 8: Partnerships and Networks

Co-Chairs: Dr Carl Newman, DTRA & Supaporn Wacharapluesadee, Chulalongkorn University

Objectives:

- Learn about ways to communicate through networks, websites and other opportunities
- Brainstorm on key elements in building successful partnerships and networks for emergency preparedness

09:00 - 10:15

Partnerships and Networks:

- **WHO**
Paul Cox
- **RESAOLAB/RESAMAD**
Jean Sakandé
- **Institut Pasteur network**
Nadia Khelef
- **Africa CDC AMR Surveillance networks**
Joël Fleury Djoba Siawaya
- **ASLM**
Nqobile Ndlovu

10:15 - 10:45

Break

10:45 - 11:45

OPEN DISCUSSION

This week in review

End of day 6 - Session 8 evaluation & Global evaluation

Chloé Masetti

11:45 - 12:30

Summary & closure

Rosanna Peeling, François-Xavier Babin

12:30 - 14:00

Lunch

End of ACDx 2018