

# Diagnostic Test Evaluations Workshop: The pathway of evidence generation

Wednesday 10<sup>th</sup> April 13:00 – 17:30

Join the conversation! @NIHR\_NCL\_MIC #evidencepathways\_NCL\_MIC #DiagnosticsNE

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# Introduction to the day and to the evidence development pathway

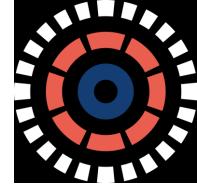
Dr Sara Graziadio



10/04/2019, Newcastle upon Tyne

#### Introductions

- The NIHR MIC
  - who are we and what we do?
- The evidence development pathway
- The agenda for today





### Who are we?

- 11 NIHR MICs across England established in January 2018, replacing the HTCs and DECs
- Some MICs focus on the development of new medical technologies (MedTech)
- Other MICs help to generate evidence and evaluate in vitro diagnostic tests



#### **Diagnostics North East**













Innovation

Observatory





**External Assessment Centre** 

#### The Newcastle MIC Team





Dr. Joy Allen

NIHR



Dr. Sara Graziadio



Prof. John

Simpson

Deputy Director



Dr. Andrew Sims

**STP** Clinical

Bioinformatics



Rachel O'Leary



Dickinson

R&D Study

Anna Halstead

Project

Manager

#### Methodologists



Bray

Lendrem Newcastle In Vitro

**Diagnostics Co-operative** 

Jones

Suklan

Elliot



Amanda Winter

#### **Research Themes**



Infectious diseases led by Ashley Price (e.g. Sepsis, Influenza) Ageing and long-term conditions led by James Frith (e.g. Stroke, COPD)

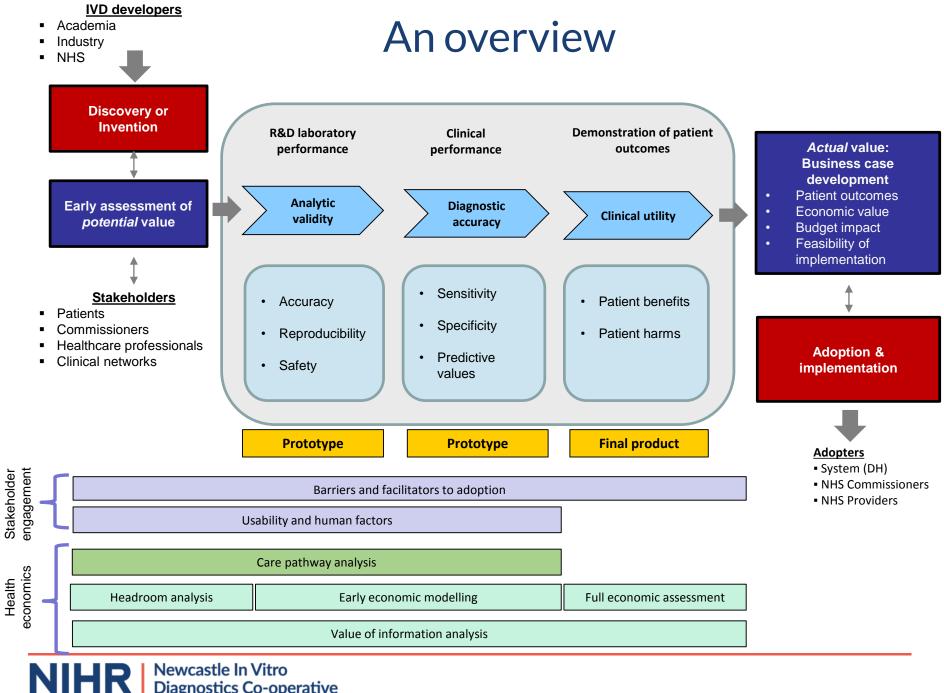


Personalised medicine led by Nick Reynolds (e.g. Familial hypercholesterolemia, breast cancer)



#### The evidence development pathway





**Diagnostics Co-operative** 

#### Agenda

13:00 - 13:15 Introduction to the day and to the evidence development pathway *Delivered by Sara Graziadio (MIC)* 

13:15 - 13:50 Defining the value propositions: care pathway analysis

Delivered by Will Jones (MIC)

13:50 - 14:30 Statistical approaches to evaluating diagnostic tests

Delivered by Kevin Wilson (School of Mathematics, Statistics and Physics) and Clare Lendrem (MIC)

- 14:30 15:10 Health economic evaluations in diagnostics
- Delivered by Eoin Moloney and Dimitrios Tzelis (Institute of Health and Society, Newcastle University) 15:10 - 15:30 Coffee break
- 15:30 16:10 Systematic literature reviews and evidence synthesis

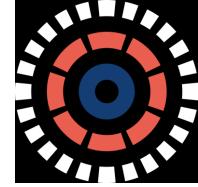
Delivered by Lynn Barron-Millar and Patience Kunonga (Institute of Health and Society)

16:10 – 16:50 Clinical studies: from funded application to study closure

Delivered by Lisa Shaw (Stroke Research Group, Newcastle University)

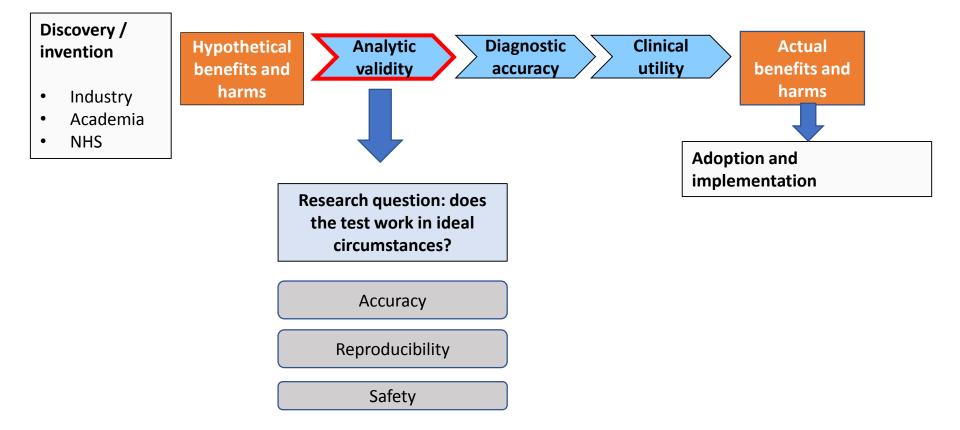
- 16:50 17:00 Conclusions
- 17:00 17:30 Drinks and networking



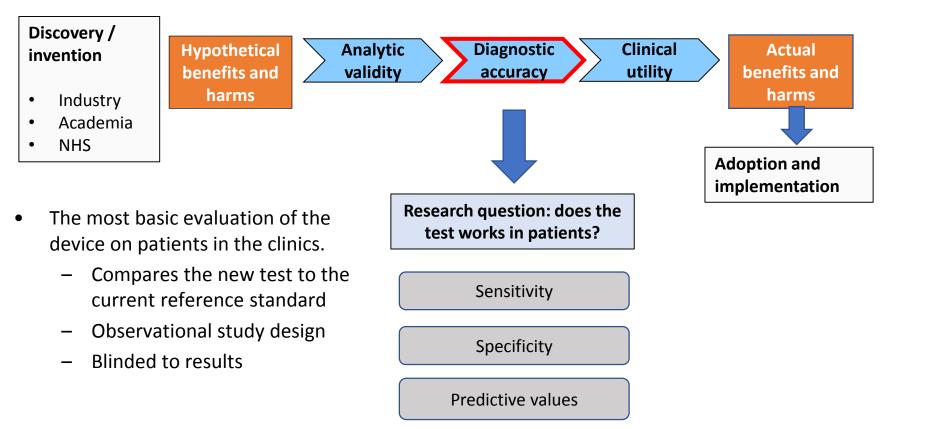


# Enjoy the day!

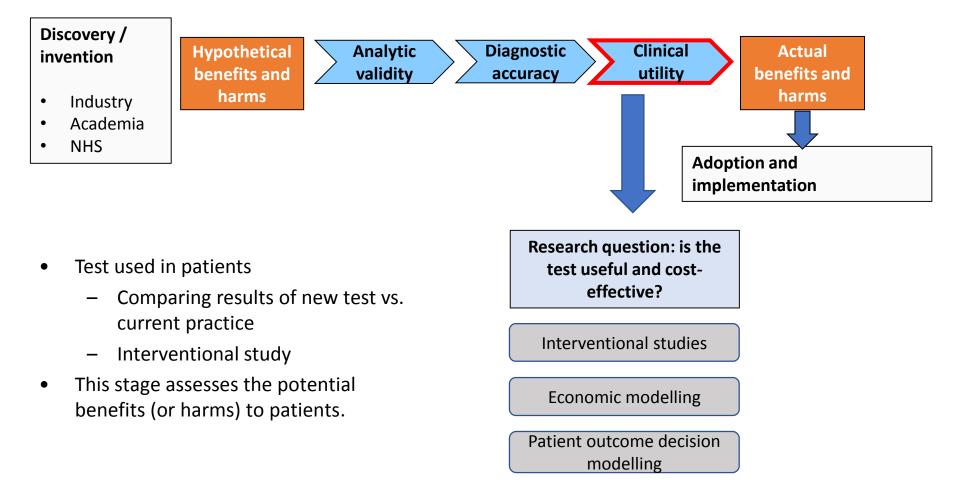
#### Analytic validity



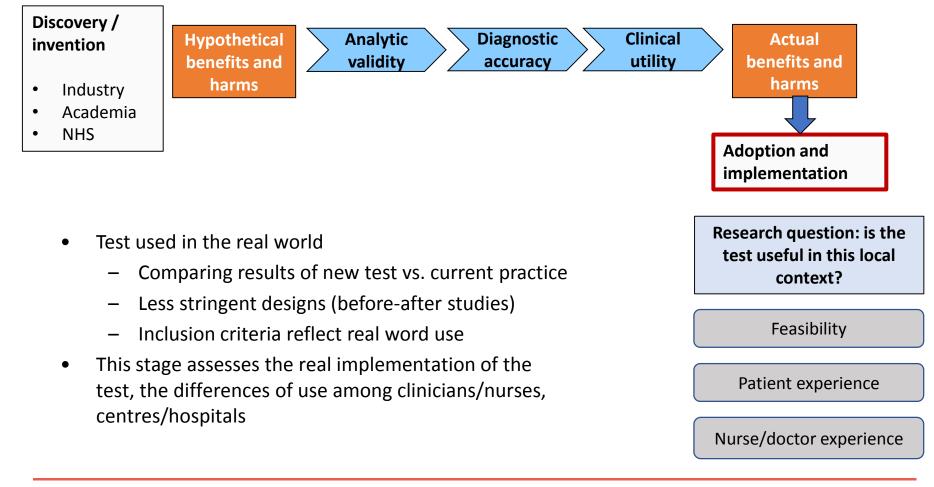
### **Diagnostic accuracy**



## **Clinical utility**



### Adoption and implementation studies



# Adoption studies

