NIHR- Diagnostic Evidence Co-operative, London at Imperial College

George Hanna

Oxford, 18th March 2014
Vision

“Achieving excellence in point of care diagnostics from product design to patient benefits.”
Technology & innovation management in healthcare services

Economic analysis

Human factors & risk assessment

Patient reported outcomes & safety needs

Gut health

Primary care and general practice

Respiratory diseases

Infectious diseases

Metabolic medicine

Cardiovascular diseases

Cancer

Women’s health

Paediatrics

Advisory Board

Prof Sir Alfred Cuschieri

Director

Prof George Hanna

Steering Committee (including strategic partners)

Professor Sir Liam Donaldson

Public and Patient Engagement

Prof Roger Kneebone

Methodology and Governance

Prof Liam Donaldson

Prof Sir Liam Donaldson

Prof George Hanna

Prof Roger Kneebone
Objectives

- Map available levels of evidence for existing POC-IVD
- Determine unmet clinical needs
- Generate evidence on clinical validity, utility, care pathway benefits and cost effectiveness
- Develop a “diagnostic research toolkit”
- Study the design specifications, impact on care pathway and safety requirements for home POC-IVD
- Investigate the challenges in scaling-up and barriers to implementations
- Systematic reviews
- Clinical needs assessment
- Stakeholder analysis
- Economic modelling
- Decision Analysis
- Requirements capture
- Inclusive design
- Human factors, ergonomics
- Risk assessment, patient safety
- Clinical pathway modelling
- Process mapping
- Clinical validity, utility, RCT
- Patient reported outcomes
- Cost-effectiveness
- Scaling-up
- Barriers to implementation
- Dissemination
Risk assessment
Design processes
Process mapping
Risk assessment
Design standards and regulations
Inclusive design
Stakeholder analysis
Usability assessment
Industry collaboration

• DEC Business Manager to lead liaison with industry
• Costing model & governance structure for evaluation
• Shared funding applications
• Discussion / collaborations
Strategic partners

- Patients
- Commissioners
- Implementation
- Regulators
- Academia and Designers
- Industry

Institutions and Collaborations:

- Imperial College Healthcare
- NHS
- NIHR CLAHRC for Northwest London
- BEHH
- CWHH
- Hillingdon Clinical Commissioning Group
- NHS
- West London Primary Care Research Consortium
- NIHR Imperial BRC
- Royal College of Art
- The University of Nottingham
- BIVDA
Team

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Design processes
• to map the care system and the relationship/interactions between stakeholders
• to understand the system from the end user perspective (needs and aspirations) & healthcare perspective (e.g. health & social care professionals)
• What can go wrong?
• (Why might it go wrong?)
• How likely is it to go wrong?
• How bad is it if it does go wrong?
• Should I do anything about it?
• What should I do about it?
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