# From embryonic ideas to funded projects

Maria Pufulete

Associate Professor in Applied Health Resarch

# National Institute for Health and Care Research

The NIHR is funded by the Department of Health and Social Care to improve the health and wealth of the nation through research.

Working in partnership with the NHS, universities, local government, other research funders, patients and the public - we fund, enable and deliver world-leading health and social care research that improves people's health and wellbeing and promotes economic growth.







### Al in congenital heart disease

Idea Funder Project Team Ideas: Refine Funder Team Project: Co-design Apply Apply

### Example: Prehab research ~£5m



2014 EBI Research for Health £25K



2025 NIHR
Fit4HeartOp
PGFAR £2.8m



















2015 NIHR Themed call unsuccessful

2020 NIHR PDG Prehab in cardiac surgery £250k

Expertise

2026 NIHR PDG CARE Study £250k



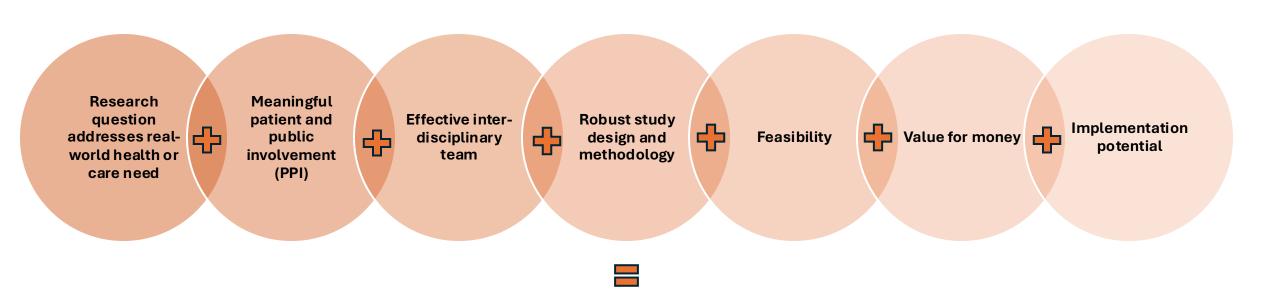
Improving perioperative care in adult heart surgery (CARE Study)

New research ideas

Can we improve perioperative care in congenital heart surgery?

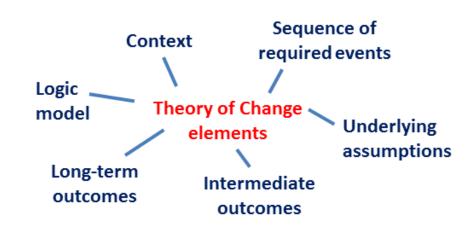
 NIHR Programme Development Grant Nov 2025

## What makes a successful NIHR project



Successful NIHR project





- Does it work?
  - Randomised /non randomised studies / systematic reviews
- How does it work?
  - Mechanistic studies / logic models / theory of change
- Do people use it? Is it acceptable?
  - Qualitative studies
- How many people use it? Why do they use it? How can we make it better?
  - Mixed-methods studies
- Is it feasible? Can we implement it in practice?
  - Feasibility of implementation
- Is it cost effective?
  - Health economic studies

#### Funder

### Al in congenital heart disease (CHD)

- What is the funder funding?
  - 100 Al projects
  - 86 AI technologies
  - £123m
- Funded projects in CHD

#### <u>Artificial Intelligence</u> to Improve Antenatal Detection of <u>Congenital Heart</u> <u>Disease</u>

Career Development Award

Award ID: NIHR301448

Lead Investigator: Dr Thomas Day

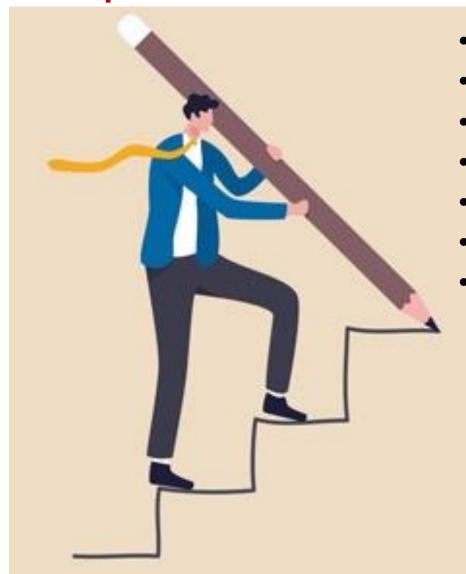
Contracting Organisation: King's College London

End Date: April 2024 (Completed)

... Artificial Intelligence (AI) can help us identify heart conditions in babies, before birth.

Background... form of *artificial intelligence* that has been shown to achieve human expert-level performance in some...

## Next steps .....



- Find out who is doing what
- Network
- Put together team
- Business case
- PPI
- Co-design research
- Seed corn funding

