

Developing critical care research



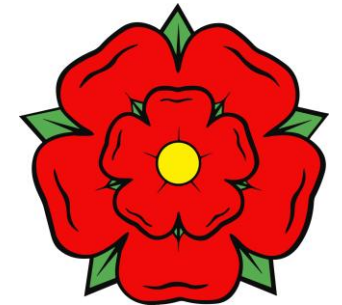
Paul Dark

NIHR Senior Investigator



Thematic overview

- Developing and normalising applied health research in frontline NHS care
- Transformative role of NIHR in democratising high-quality research opportunity
- *Critical Care* research: a tale of two pandemics
- Developing local solutions



People

Professor Paul Dark

Senior Investigator

<https://www.nihr.ac.uk/people/professor-paul-dark>

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Paul is Professor of Critical Care. His research focus is on how best to diagnose, treat and support patients with suspected life-threatening infections. He is also Vice Dean for Health and Care Partnerships at The University of Manchester, Honorary Professor at The University of Warwick Medical School Clinical Trials Unit, and Visiting Professor at the Faculty of Life Sciences & Medicine at King's College London.

Find out more: [Professor Paul Dark on the University of Manchester website](#)

Contact: paul.m.dark@manchester.ac.uk

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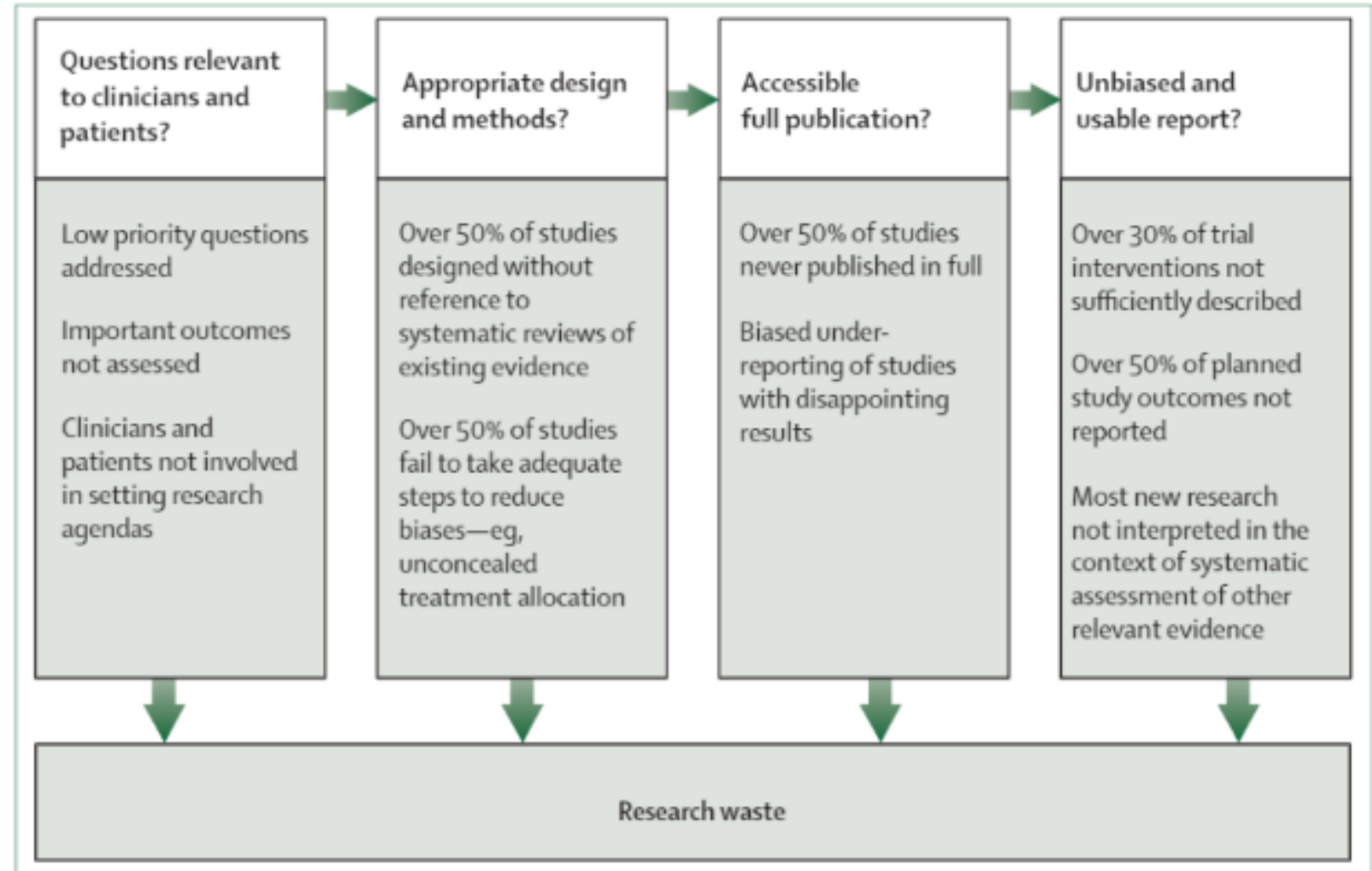
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Avoidable waste in the production and reporting of research evidence

Iain Chalmers, Paul Glasziou



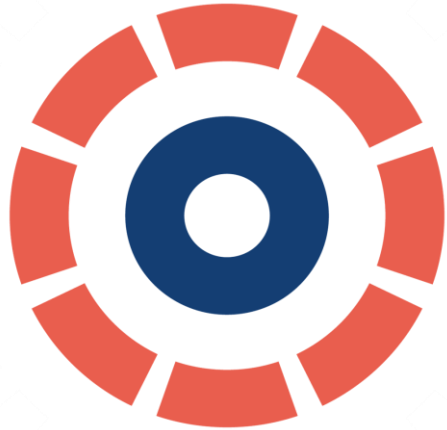
Best Research for Best Health

A new national health research strategy



- Establish the NHS as an internationally recognised centre of research excellence
- Attract, develop and retain the best research professionals to conduct people-based research
- Commission research focused on improving health and care
- Strengthen and streamline systems for research management and governance
- Act as sound custodians of public money for public good.

NIHR's mission is to improve the health and wealth of the UK through research



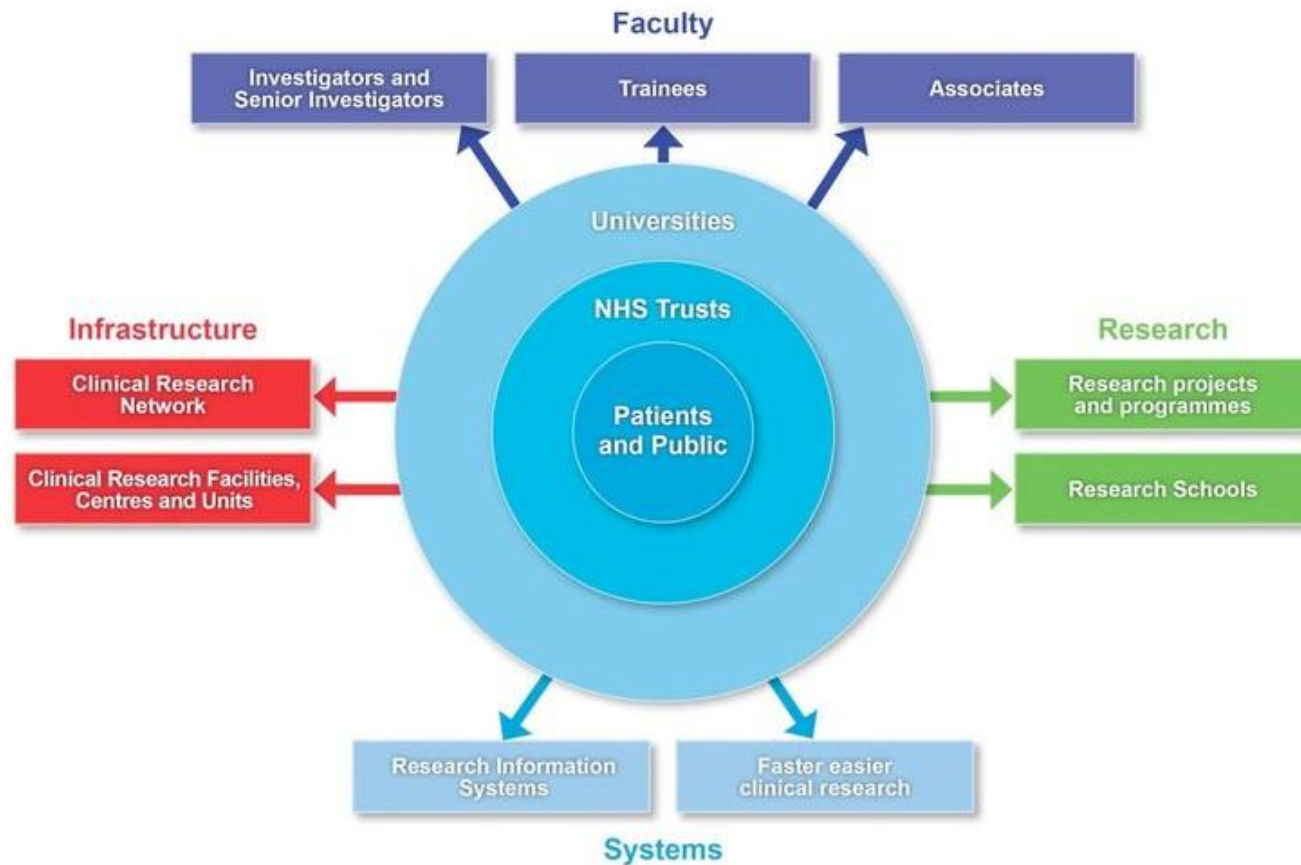
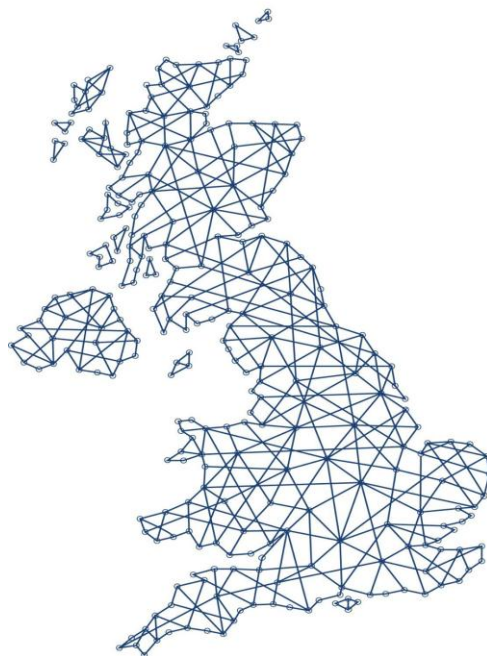
Key role in UK Government's strategy for economic growth

Funded by UK Government



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NIHR: one of the largest funders of health & social care research in Europe

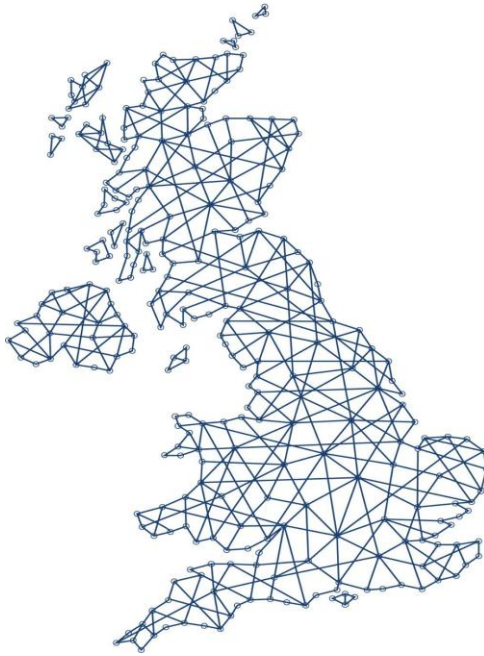


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Most integrated research system in the world

www.nihr.ac.uk

Establishing a National Research Network for Critical Care

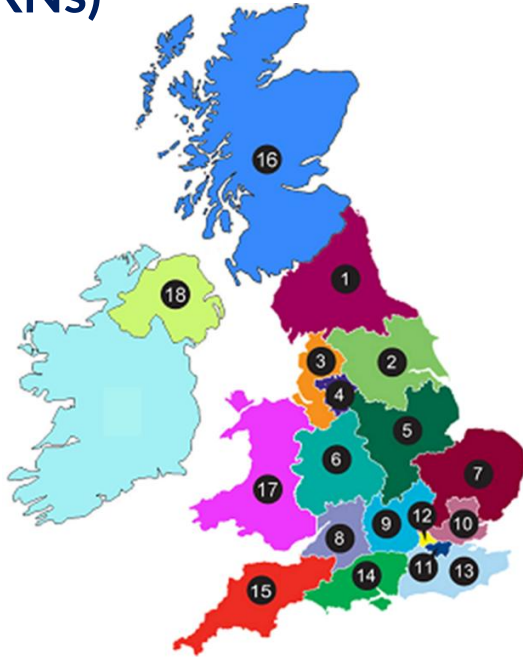


NHS Critical Care patients services

- 250 UK NHS Critical Care Units (excludes cardiac and paediatrics)
- ~ 250,000 patient episodes
- World-leading national critical care audit data (ICNARC, SICSAG)

National research delivery coordination

National coordination Local Clinical Research Networks (LCRNs)

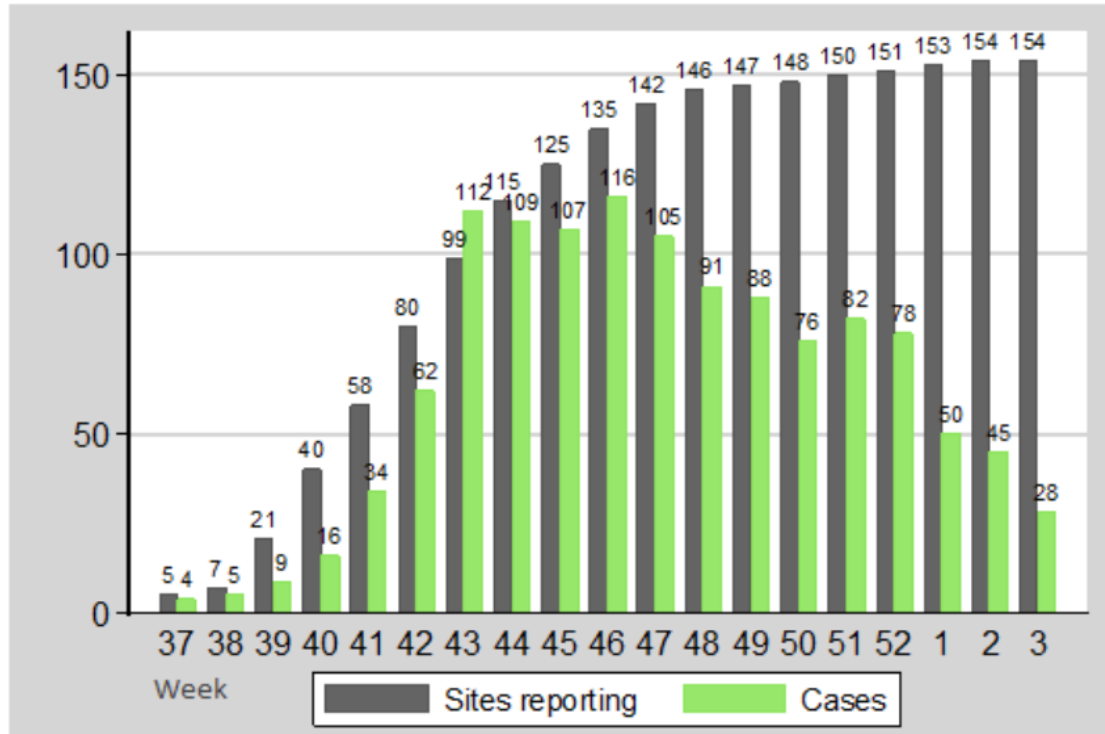


Each LCRN delivers research for 31 clinical specialties:

Ageing
Anaesthesia, perioperative medicine and pain management
Cancer
Cardiovascular disease
Children
Critical care
Dementias and neurodegeneration
Dermatology
Diabetes
Ear, nose and throat
Gastroenterology
Genetics
Haematology
Health services and delivery research
Hepatology

Infectious diseases and microbiology
Trauma and emergencies
Mental health
Metabolic and endocrine disorders
Musculoskeletal disorders
Neurological disorders
Ophthalmology
Oral and dental health
Primary care
Public health
Renal disorders
Reproductive health and childbirth
Respiratory disorders
Social care
Stroke
Surgery

National research systems responses to H1N1 2009



icnarc
Intensive care
national audit &
research centre

NIHR HTA: 09/81/01

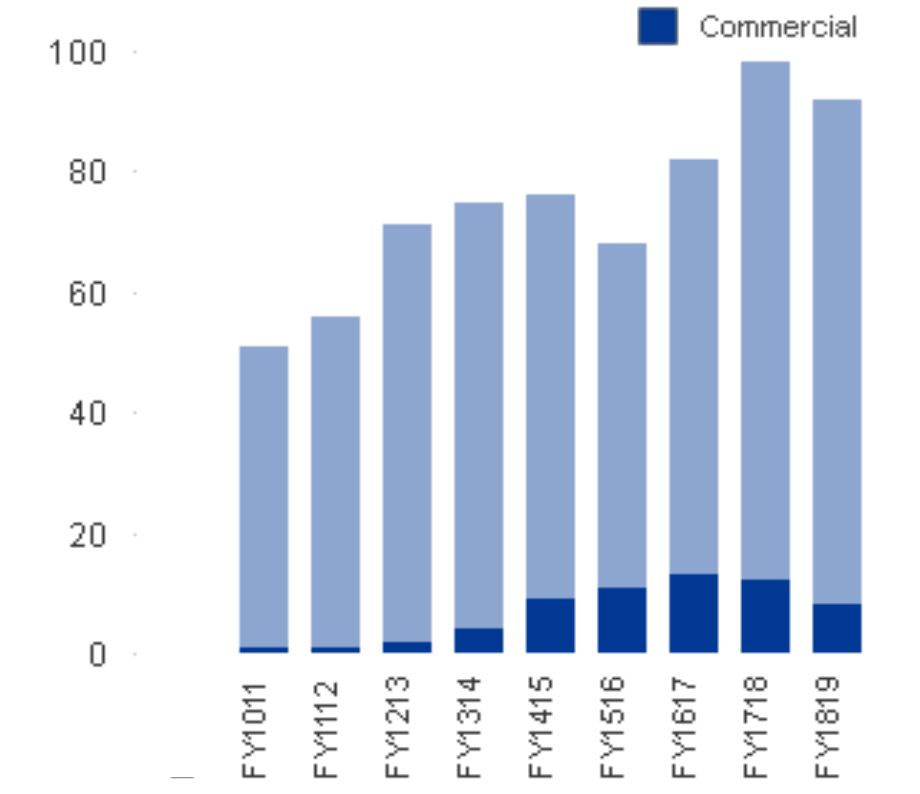
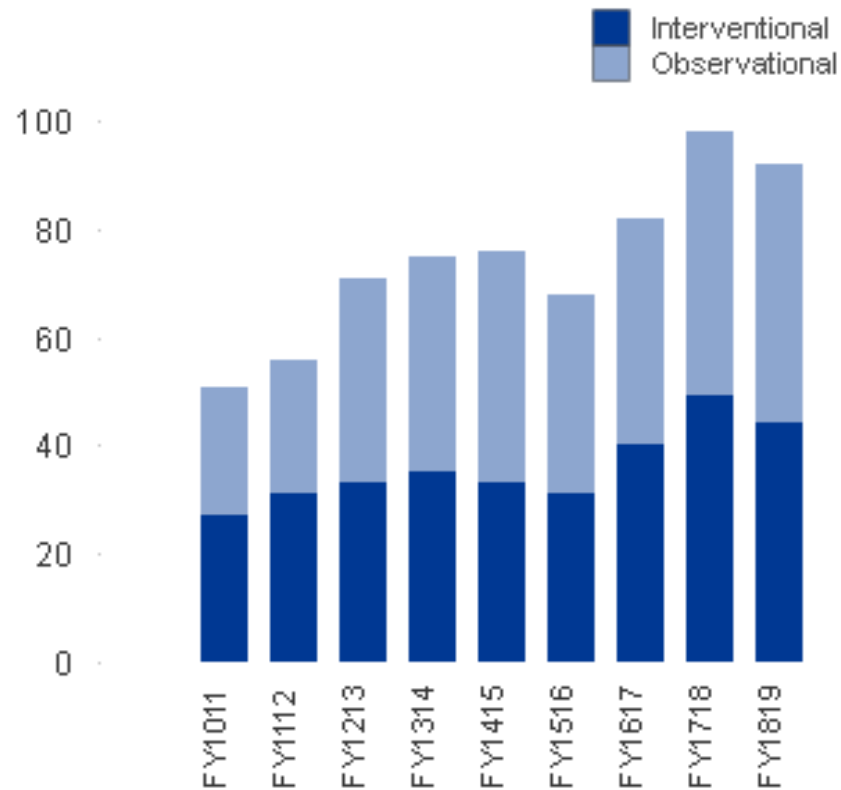
UK Critical Care and H1N1 pandemic

Rapid research response to pandemic threat

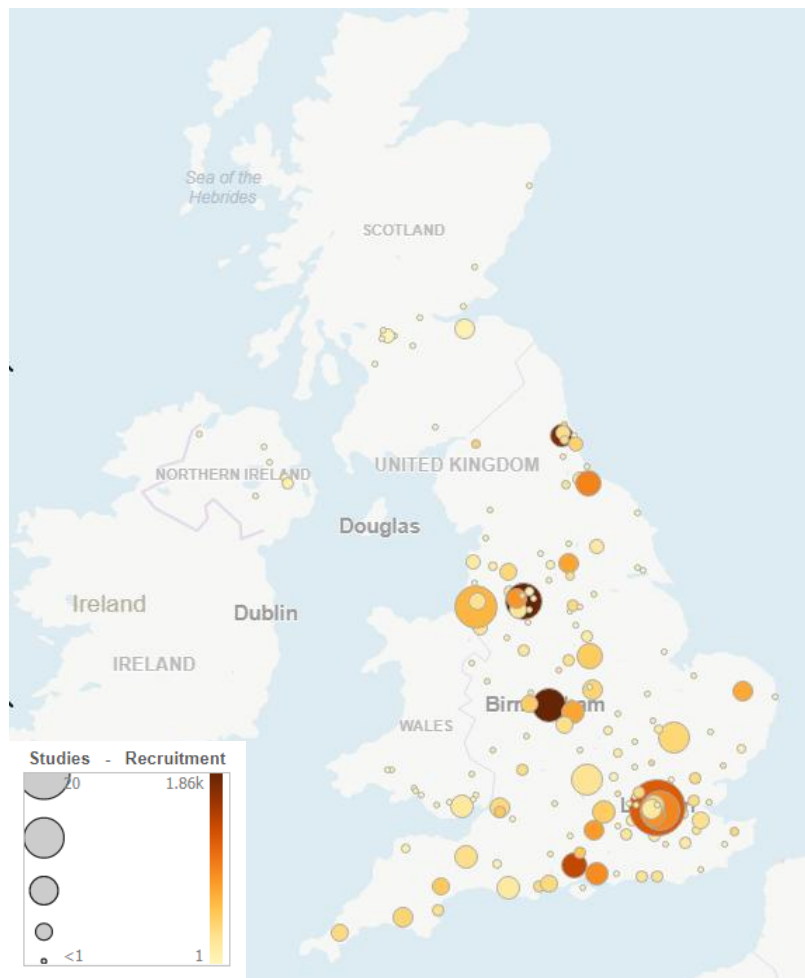
Swine Flu Triage Study (SWIFT)

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Developing and delivering a national study portfolio



Accountability: measured and reported performance metrics

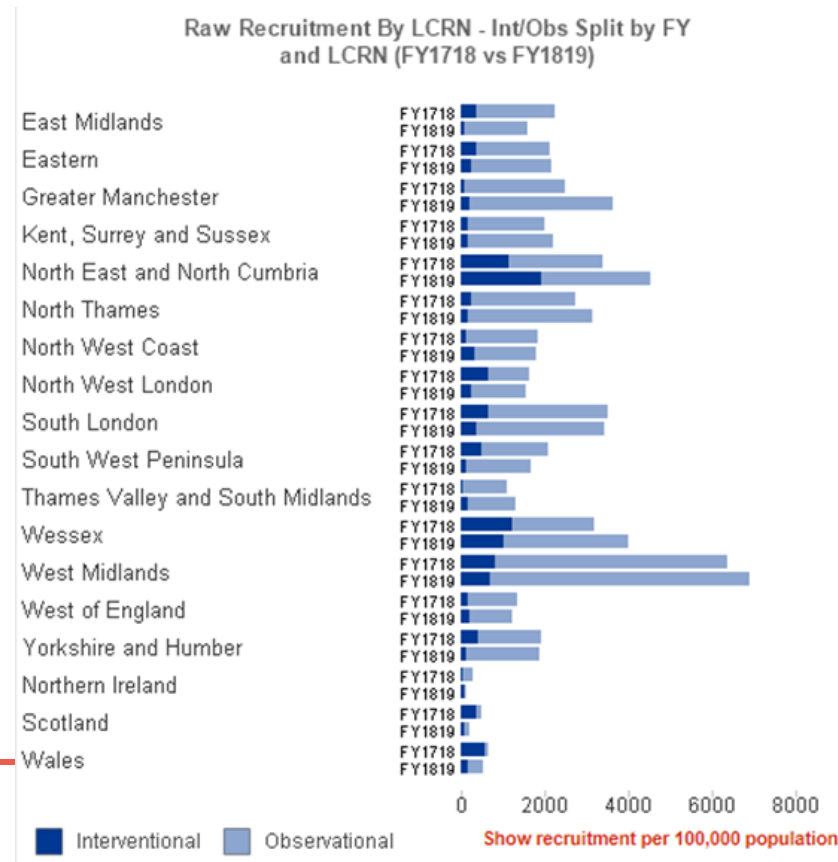


Critical Care 2018-19

83% of Units participated (stretch target agreed at 80%)

41,000 patient participants

84 studies



National research systems responses to COVID-19



UK URGENT PUBLIC HEALTH (UPH) RESEARCH

Find new treatments for COVID-19

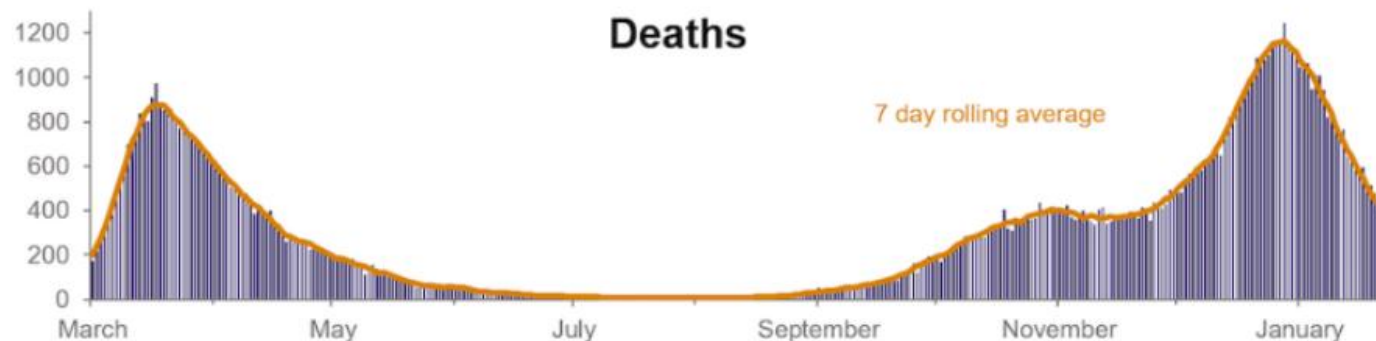
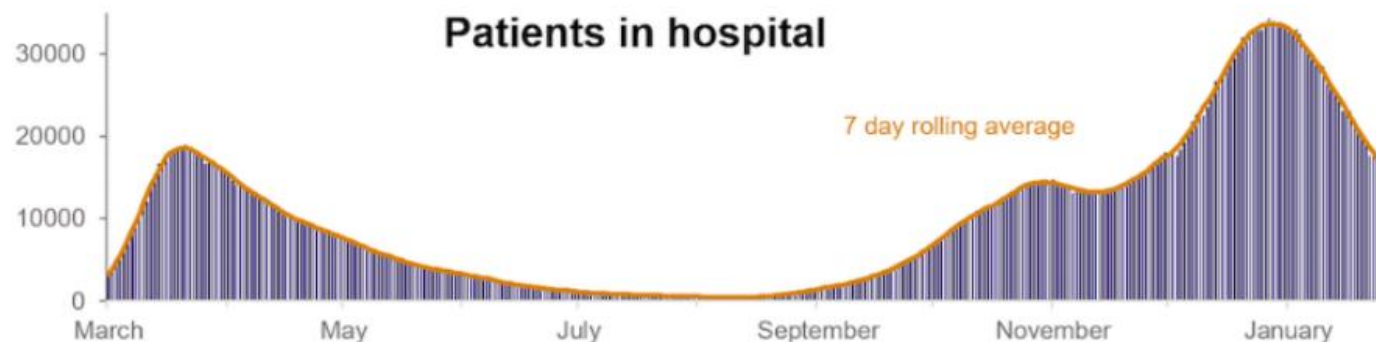
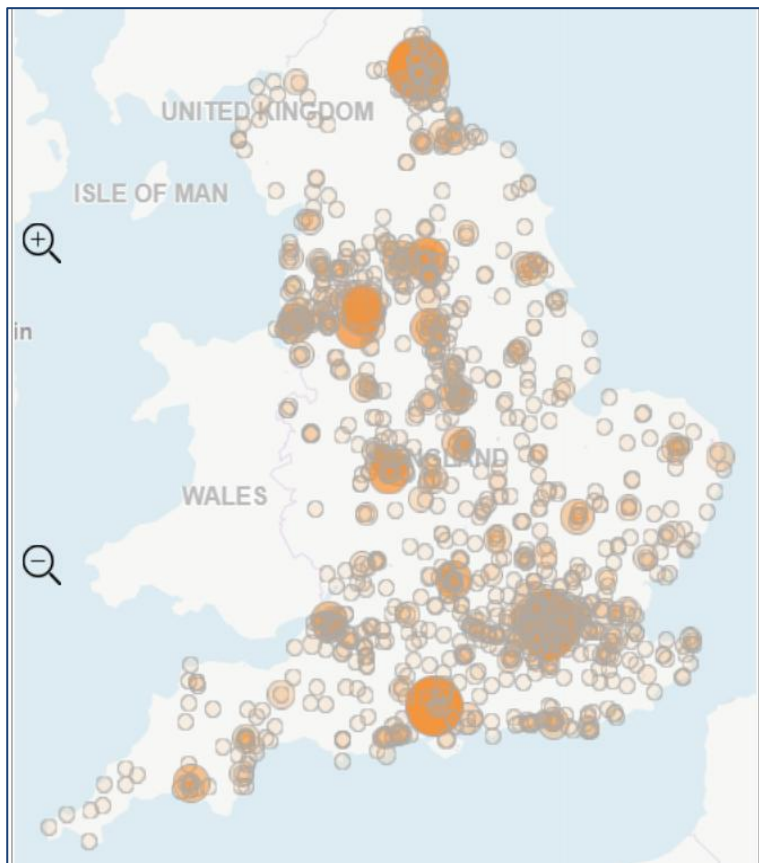
Develop vaccines and prevention

Inform policy and decision-making

Evaluate tests and diagnostics

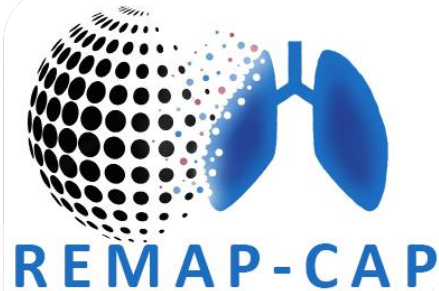
Support the global response to the pandemic

Urgent Public Health Research timeline (March 2020-21)



NHS
England

Urgent Public Health studies in critical care



Strategic learning from responses to COVID-19

Recovery, resilience and growth



Embedded in care

Patient-centred and inclusive

Streamlined, efficient and innovative

Enabled by data and digital tools

Sustainable and supported research workforce

NIHR operational plan to delivery DHSC strategy

Operating principles

Mission

Strategic focus



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National Institute for
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www.nihr.ac.uk/documents/best-research-for-best-health-the-next-chapter/27778

Developing applied health and care research locally

- build a study portfolio, linked to your care pathways and service needs
- build a workforce
- local, regional, national and international partnerships
- the role of HEIs – developing people and the next generation of leaders
- the role of professional societies
- working with people and communities – assuring inclusion



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Developing critical care research



Professor Anton Krige



Professor Shondipon Laha

Stay up to date
www.nihr.ac.uk/sign-up



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