Integrating Research into Clinical Care

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Key points

• Context

• NIHR

• Clinical Research Network

• Impact of Research on Health Care

• Future Direction
Political commitment to supporting life-sciences research

Embed clinical research in all aspects of care
About NIHR

• Established in 2006 under Government’s Best Research for Best Health strategy
• Goal: To create a health research system in which the NHS supports outstanding individuals working in world-class facilities, conducting leading-edge research focused on the needs of patients and the public
• Translational, clinical and applied research
• Funded by Department of Health and Social Care (£1b+)
• Growing remit across public health and social care
• Now in receipt of ODA funding for applied global health research to benefit patients and public in LMICs
Our mission

To improve the health and wealth of the nation through research, by:

- Funding, supporting and delivering high-quality research that benefits the NHS, public health and social care
- Engaging and involving patients, carers and the public in order to improve the reach, quality and impact of research
- Attracting, training and supporting the best researchers to tackle the complex health and care challenges of the future
- Investing in world-class infrastructure and a skilled delivery workforce to translate discoveries into improved treatments and services
- Partnering with other public funders, charities and industry to maximise the value of research to patients and the economy
Celebrating 10 years

- Funds high quality research to improve health.
- Trains and supports health researchers.
- Funds world-class research facilities.
- Works with life science industry and charities to benefit all.
- Involves patients and public at every step.
Research in routine care
Clinical Research Network

- Provides infrastructural support across the NHS
- Maintains a workforce focused on delivery
- Works with all Research Sponsors:
  - Public Funded: NIHR, MRC, etc
  - Charities: Members of AMRC
  - Industry: Pharma, CRO’s, MedTech, SME’s
Key statistics 2017/18

Recruitment into NIHR CRN Portfolio studies in England, 2017/18:

25% INCREASE IN PARTICIPATION SINCE 2010/11. THAT IS 725,333 RECRUITS.
Key statistics 2017/18
Key statistics 2017/18

The network supported 5,804 studies in 2017/2018. This is 77% more than in 2010/2011.
Breakthrough research

BOSON - a Gilead sponsored study (2013-2015)

- UK took a global leadership position.
- The second of five countries to begin enrolling patients.
- Recruited more patients than any other country.
- UK has the top two recruiting sites globally.
- Gilead collaborated closely with the UK’s STOP-HCV, a Hepatitis C Virus consortium, also to ensure a successful outcome.
Breakthrough research

LUMINOUS - a Novartis sponsored study (2011-2015)

- Long-term safety and effectiveness of Ranibzumab for all licenced indications
- Recruitment target of 30,000 globally
- UK was top recruiter globally - contributing over 11,000 patients across indications
- 49 UK sites active with subjects
- Top two recruiting sites for neovascular AMD globally were from the UK
High hospital research participation and improved colorectal cancer survival outcomes: a population-based study

Amy Downing,1,2 Eva JA Morris,1,2,3 Neil Corrigan,4 David Sebag-Montefiore,1,2,5 Paul J Finan,5,6 James D Thomas,6 Michael Chapman,7 Russell Hamilton,8 Helen Campbell,8,9 David Cameron,10,11 Richard Kaplan,10,12 Mahesh Parmar,12 Richard Stephens,13 Matt Seymour,1,2,5,10 Walter Gregory,4 Peter Selby1,2,5

ABSTRACT

Objective In 2001, the National Institute for Health Research Cancer Research Network (NCRN) was established, leading to a rapid increase in clinical research activity across the English NHS. Using colorectal cancer (CRC) as an example, we test the hypothesis that high, sustained hospital-level participation in interventional clinical trials improves outcomes for all patients with CRC managed in those research-intensive hospitals.

Design Data for patients diagnosed with CRC in England were linked to hospital research activity to generate a registry of patients with CRC.

Results A total of 173,441 patients were identified. Hospitals with higher research activity had lower relative risks of death from CRC and higher relative risks of undergoing surgery than those with lower research activity.

Significance of this study

What is already known on this subject?

- Only a few studies have investigated whether a hospital’s research activity for a specific disease is associated with better survival for all of their patients with that disease.
- Disease-specific studies in coronary artery disease and breast cancer have suggested that research activity is associated with improved outcomes.

What is new on this subject?

- This study extends the findings of previous disease-specific studies by demonstrating that hospital research activity is associated with improved outcomes for patients across a range of different cancers and treatments.

- The findings suggest that hospital research activity may be a key factor in improving outcomes for patients with cancer.
Better patient outcomes at research-active hospitals

- Study tested whether hospitals with a high level of participation in bowel cancer trials have improved care outcomes

- Patients treated at hospitals with a high level of research had a mortality rate of 5%, compared to 6.5% in less research-active hospitals

- And 44.8% of patients were still alive five years after initial diagnosis, compared to only 41%

- Even patients who are not involved in trials benefit from care in research-active hospitals
Patient Experience of Research
National survey results 17/18

Over 4,300 responses were collected...

87% of patients had a good experience of participating in research
83% would be happy to take part in another study
In financial year (FY) 2014/15, CRN supported clinical research activity generated:

£2.4 billion of gross value added (GVA)

Almost 39,500 jobs
Education
Good Clinical Practice Training

• CRN Learn

• 30000 NHS Staff per annum

• Local Network Trainers
MOOC Numbers and impact

- Over **18,500 learners** across **80+ countries** have joined to date
- Nearly **94%** said MOOC met or exceeded their overall expectations

Learners include:

- School pupils interested in a career in health research
- Healthcare students
- Patients and the public
- People working in research
- Healthcare professionals around the world
GMC

• ‘Credentialing is a process that will recognise expertise and provide approved, regulated training programmes in areas of practice where:

• there may be significant patient safety issues, or

• training opportunities are insufficient or do not provide adequate flexibility to support effective service delivery.’
Future: Credentialing

- Working with Royal College of Physicians
  - Professor Cheng-Hock Toh
  - Professor Della Freeth
- All Healthcare professionals: Non Academics
- Partnership with Universities
- Department of Health and Social Care Support
  - Academy of Royal Colleges
  - Royal College of Nursing
Future Research:
Any Questions?

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