NIHR@10 in Wessex

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Chief Executive

University Hospital Southampton NHSFT

Hosting the Wessex CRN and the Wessex CLAHRC

Lead provider for the Southampton BRC, BRU & CRF
The past is a foreign country. They do things differently there.

- L.P. Hartley
Ten years ago... No NIHR
What were the challenges 10 years ago?

- Dramatic fall in numbers of clinical academics
- Difficulty in developing sustainable capacity
- Problems with career paths for all professions in research
- Perception that applied health research was second class
- Low applied evidence base
- Insufficient industry engagement
- Insufficient patient engagement in research
- Inadequate systems to promote and support research
- NHS R&D funding was allocated on a historical basis
- A mixed research culture in the NHS
- Insufficient translational research
NIHR objectives ....

- Delivering benefits to patients
- Improving the health of the public
- Cost-effective, safe and effective healthcare
- Putting patients and public at the heart of research
- Supporting a research infrastructure

[NIHRat10](https://bit.ly/NIHRat10)
NIHR achievements....

- Clinical Research Network
- Clinical Research Facilities for Experimental Medicine
- Experimental Cancer Medicine Centres
- Programme Grants for Applied Research, Research for Innovation, Speculation and Creativity funding programmes
- Research for Patient Benefit funding programme
- School for Primary Care Research
- Annual Trainees Conference
- Biomedical Research Centres
- Patient Safety Research Centres
- Healthcare Technology Cooperatives
- NIHR Faculty and NIHR Senior Investigators
- Patient Research Cohort initiative and the Efficacy and Mechanism Evaluation and Methodology Research programmes in partnership with the MRC
- Biomedical Research Units
- Collaborations for Leadership in Applied Health Research and Care
- Flexibility and Sustainability funding stream
- Research Design Service
- School for Social Care Research
- NIHR Office for Clinical Research Infrastructure
- Technology Assessment Reviews infrastructure
- Health Protection Research Units
- Health Service Journal award for Research
- Patient Safety Translational Research Centres
- The National Phenome Centre, in partnership with the MRC
- The School for Public Health Research
- The MRC/NIHR Phenome Centre
- Translational Research Collaborations
- Blood and Transplant Research Units
- The National Biosample Centre
Fitting this together in Wessex...
1. Starting with the patient

Services must be designed to meet the needs of the USER

The NHS think you’ll benefit from THIS strategy

I LIVE with this condition, what matters to me is...

M.S. High level plans
2. Every trust research-active

**HSMR – “significant correlation between academic output and mortality rates”**

**“Research active Trusts had lower risk-adjusted mortality for acute admissions, which persisted after adjustment for staffing and other structural factors.”**

**“Organisations in which the research function is fully integrated into the organisational structure can out-perform other organisations that pay less heed to research and its outputs”**
3. Competition & Collaboration

These charts show non-commercial data for the ABF period 01 October 2016 - 30 September 2017 (to data cut 16/11/2016).

LCRN Recruitment

<table>
<thead>
<tr>
<th>Region</th>
<th>Recruitment</th>
<th>Complexity Weighted Recruitment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yorkshire and Humber</td>
<td></td>
<td>14.40%</td>
</tr>
<tr>
<td>South London</td>
<td></td>
<td>9.04%</td>
</tr>
<tr>
<td>North Thames</td>
<td></td>
<td>9.23%</td>
</tr>
<tr>
<td>Wessex</td>
<td></td>
<td>8.89%</td>
</tr>
<tr>
<td>Greater Manchester</td>
<td></td>
<td>7.82%</td>
</tr>
<tr>
<td>West Midlands</td>
<td></td>
<td>7.69%</td>
</tr>
<tr>
<td>Eastern</td>
<td></td>
<td>6.39%</td>
</tr>
<tr>
<td>East Midlands</td>
<td></td>
<td>6.14%</td>
</tr>
<tr>
<td>North East and North</td>
<td></td>
<td>5.37%</td>
</tr>
<tr>
<td>Thames Valley and So</td>
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<td>5.22%</td>
</tr>
<tr>
<td>Kent, Surrey and Sus</td>
<td></td>
<td>4.52%</td>
</tr>
<tr>
<td>North West Coast</td>
<td></td>
<td>4.13%</td>
</tr>
<tr>
<td>South West Peninsula</td>
<td></td>
<td>4.03%</td>
</tr>
<tr>
<td>West of England</td>
<td></td>
<td>3.35%</td>
</tr>
<tr>
<td>North West London</td>
<td></td>
<td>3.23%</td>
</tr>
</tbody>
</table>

LCRN Total Recruitment

- Rank: 4 (Top Third of LCRNs)
- Share: 0.89%
- Last Year Rank: 6 (Middle Third of LCRNs)
- Last Year Share: 6.84%

LCRN Complexity Weighted Recruitment

- Rank: 6 (Middle Third of LCRNs)
- Share: 6.99%
- Last Year Rank: 5 (Top Third of LCRNs)
- Last Year Share: 6.86%
3. Relevance to healthcare delivery

- Childhood obesity
- Liver disease and alcohol-related illness
- Cancer linked to obesity and healthy
- Independent ageing

- Asthma
- COPD
- Lung cancer
- Rare lung diseases
- Critical care

Data science

Microbial science

Behavioural science
NIHR CLAHRC Wessex

A five year research and implementation programme funded by the NIHR focussed on bringing benefits to people living in Wessex through better integration of pathways to care for people with long term conditions and reducing hospital admissions through more appropriate use of health care.

- Identify variation in outcomes
- Improve diagnosis
- Improve case management, self-management and rehabilitation

**INTEGRATED RESPIRATORY CARE**

- Improve assessment
- Identify early cognitive impairment
- Implement volunteer mealtime and mobilisation assistance

**PUBLIC HEALTH AND PRIMARY CARE**

- Reduce antibiotic prescribing in respiratory care
- Early detection of chronic liver disease
- Reduce hospital admissions

**ENGERAGEMENT WITH SELF DIRECTED SUPPORT**

- Understand components that create complexity
- Develop and implement models of minimally disruptive health care

**FUNDAMENTAL CARE IN HOSPITAL**

- Identify deficiencies in fundamental care
- Test strategies physical needs, safety and relationships

**COMPLEXITY AND END OF LIFE CARE**

- Identify deficiencies in fundamental care
- Test strategies physical needs, safety and relationships
10 years of impact in Wessex

- Lifelong and maternal health: research highlighting the impact of maternal diet before and during pregnancy on children’s long term health and disease risk later in life has been key in formulating BMA, national, UN and WHO policies and guidelines.

- Children’s bone health: Providing evidence on maternal diet and bone health in children that led to new guidance on vitamin D supplements in pregnancy, changing policy on dietary vitamin D deficiency in young children, and changing practice in infant swaddling, car seat and baby carrier design standards.

- Tackling malnutrition nationally: Developing the definitive malnutrition screening package for UK healthcare and care professionals, underpinning NICE quality standards and identifying potential annual NHS savings of £200 million.

- A decade of respiratory research and collaboration has delivered new vaccines, immunotherapies and drugs for managing asthma, COPD and allergies, including underpinning a $220M asthma drug development deal between AstraZeneca and the University of Southampton spin-out company Synairgen.

- Killing cancer: Cancer research has yielded treatments for ‘untreatable’ metastatic melanomas, cut cancer lymphoma chemotherapy treatment times from four hours to ten minutes through new injection techniques and improved outcomes in colorectal cancer through ‘prehabilitation’ exercise programmes.

- Saving sight through gene therapy in age related macular degeneration (AMD), and identifying 7-fold potential savings in AMD drug treatments.
What makes us proudest?

Which two or three of the following, if any, would you say makes you most proud to be British? Please select up to 3 options.

- The NHS: 50%
- Our History: 43%
- The Royal Family: 31%
- Our system of democracy: 26%
- Our culture and arts: 25%
- British army/armed forces: 24%
- Having a free press/media: 14%
- The BBC: 11%
- Position in the world: 11%
- British sports teams: 6%
- British business: 4%
- None: 5%
- Don’t know: 3%
A patient viewpoint...

“I’m so overwhelmed by it because I didn’t think a drug could make such a difference to somebody’s life.”

“I feel so great knowing now I’m doing something that maybe somewhere, someday can save someone’s life.”

“The morning spent at the research clinic with the girls was a great outing for father’s day and our wedding anniversary. Everyone is cheery and knowledgeable. I can see why mum and baby are so happy coming here.”

“If someone is thinking of getting involved, I’d say “do it”. You find out so many new things and hear about ideas and studies that could make a huge difference to people’s daily lives and quality of life.”
And Miles To Go Before I Sleep

riverance.deviantart.com