



NIHR – what's new

HSR UK Conference 2018

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Impact of the first ten years of NIHR





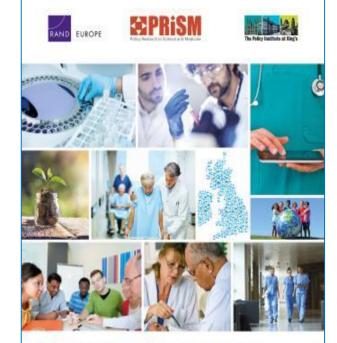


"The NHS has benefited enormously from the National Institute for Health Research (NIHR) and its approach to clinical research in the past 10 years; its need for the NIHR will be even greater in the future."

See Comment page 1978

Comment	Articles	Articles	Seminar	Review
New ISSCR guidelines: clinical translation of stern oll research line page 1999	Delivering safe and effective analysis for management of schal cols in the emergency department Ser page 2009	Adjuvant sunitinib or sonafenib for high-risk, non-metastatic senal-coll carcinema Smpage 2000	Primary giomerulorephritides Seepage 2026	Countdown to 2015: a decade of tradding progress for instamal, nowborn, and dhild survival Service 1980

£5.00 Registered as a newspaper - ISSN 01 Founded 1823 - Published weekly



The National Institute for Health Research at 10 years An impact synthesis

Summary report

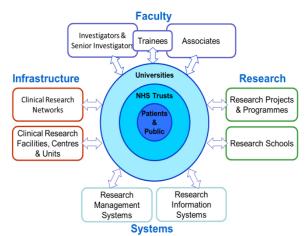
RAND Europe and the Policy Institute at King's

History of NIHR – establishment strategy

NIHR Vision

To improve the **health** and **wealth** of the nation **through research**

- 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







NHS National Institute for Health Research

Current context

Industrial Strategy



Department for Business, Energy & Industrial Strategy



UKRI & ISCF







NHS long-term plan

General Data Protection Regulations



Department for Digital, Culture Media & Sport

Accelerated Access Collaborative





2.4% GDP target R&D investment





- **System pull**, e.g. NHSE research priorities, HTA Programme triage process, Priority Setting Partnerships
- Underserved need where scale of tractable problem and scale of research effort are badly aligned
- **Community consensus**, e.g. NIHR Future of Health report and reports from AMS and ASS
- **Ministers** e.g. dementia, mental health, brain and pancreatic cancers

NIHR "Health Futures" 20 year forward look



Differences in state of health & provision of healthcare and differential impact e.g by geography Key drivers for change

Which issues are overstated & why?

Major trends in health & healthcare

Which issues are understated & why?

Link: https://www.rand.org/pubs/research_reports/RR2147.html

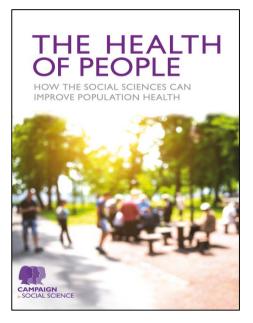


Improving the health of the public by 2040

Optimising the research environment for a healthier, fairer future

September 2016

The Academy of Medical Sciences



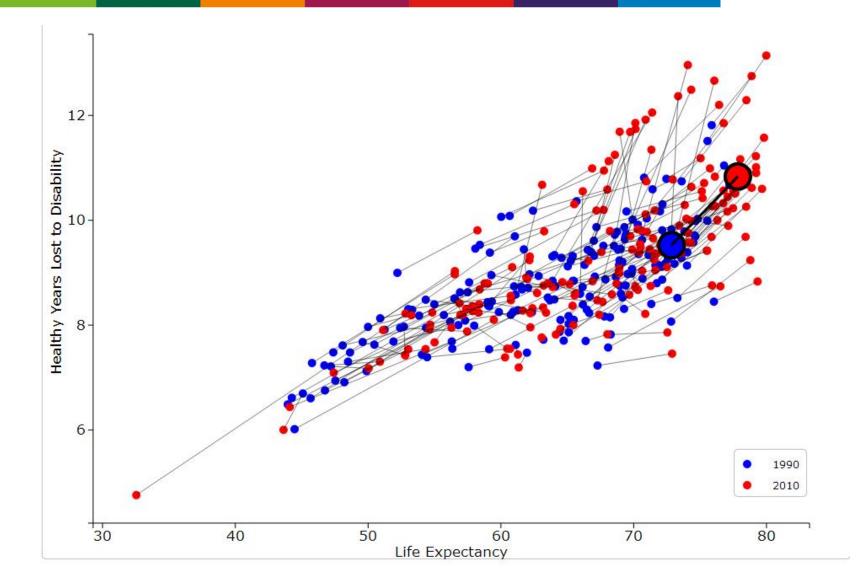




- **Transformation** in organisation and delivery of health and social care
- Patient expectations and voice are growing
- Increasing health inequalities driven by wider determinants
- Challenge of lifestyle and environmental drivers for public health needs obesity and air pollution
- Growing burden of **mental ill-health** (young and old highlighted)
- **Demographic pressures** (ageing population with multi-morbidities)
- Improving maternal and child health & end-of-life care –life course approach
- Challenge of keeping pace with advances in technology and positive/ negative consequences of new personal digital devices
- Global challenges and changing patterns of disease infectious disease – climate change and AMR

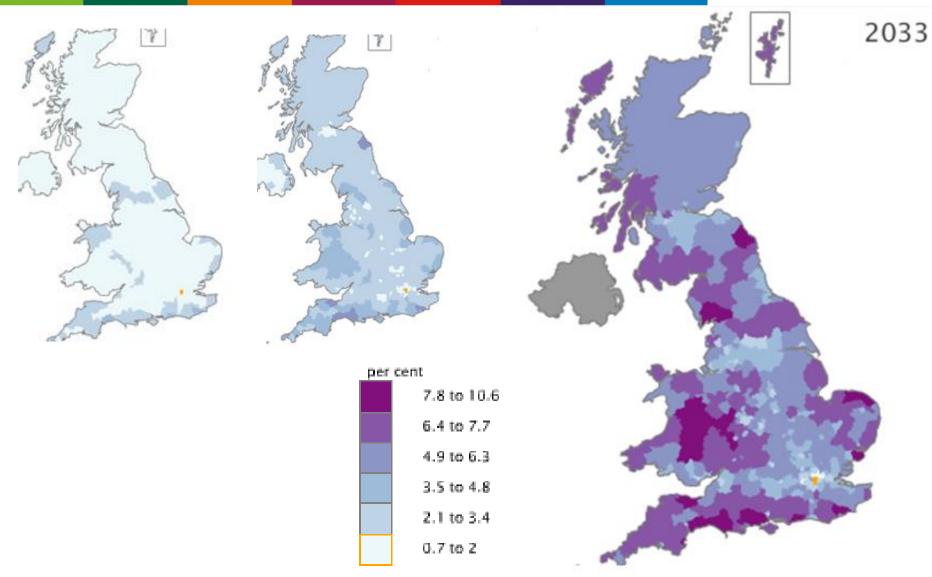
As life expectancy increases disability increases more: all countries, UK highlighted (GBD 2013)





Population 85 and over: 1992, 2015, 2033 (ONS)



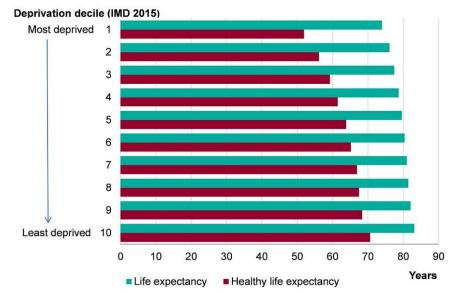


Life expectancies



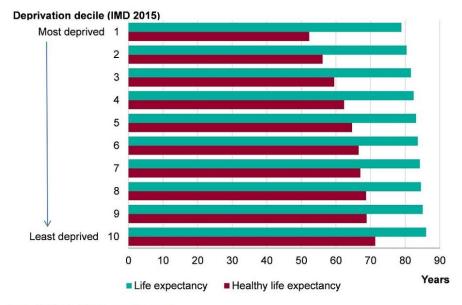
Male life expectancy and healthy life expectancy at birth by deprivation decile, England, 2013 to 2015

For males, both life expectancy and healthy life expectancy were highest in the least deprived areas and lowest in the most deprived areas



Female life expectancy and healthy life expectancy at birth by deprivation decile, England, 2013 to 2015

For females, both life expectancy and healthy life expectancy were highest in the least deprived areas and lowest in the most deprived areas



Source: Public Health Outcomes Framework

Source: Public Health Outcomes Framework

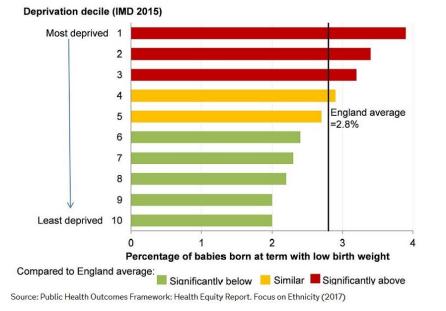
 $\label{eq:link:https://www.gov.uk/government/publications/health-profile-for-england/chapter-5-inequality-in-health$

Live births/infant mortality



Proportion of live births at term with low birth weight (<2500g) by deprivation decile, England, 2012 to 2014

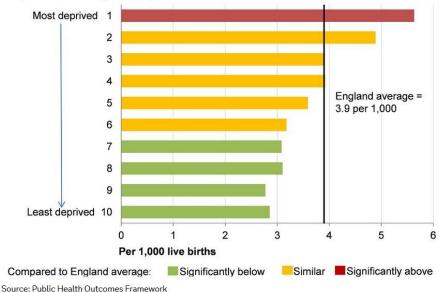
A higher percentage of babies are born at term with a low birth weight in the 3 most deprived decile groups



Infant mortality rate by deprivation decile, England, 2013 to 2015

The infant mortality rate is highest in the most deprived decile group and lowest in the least deprived

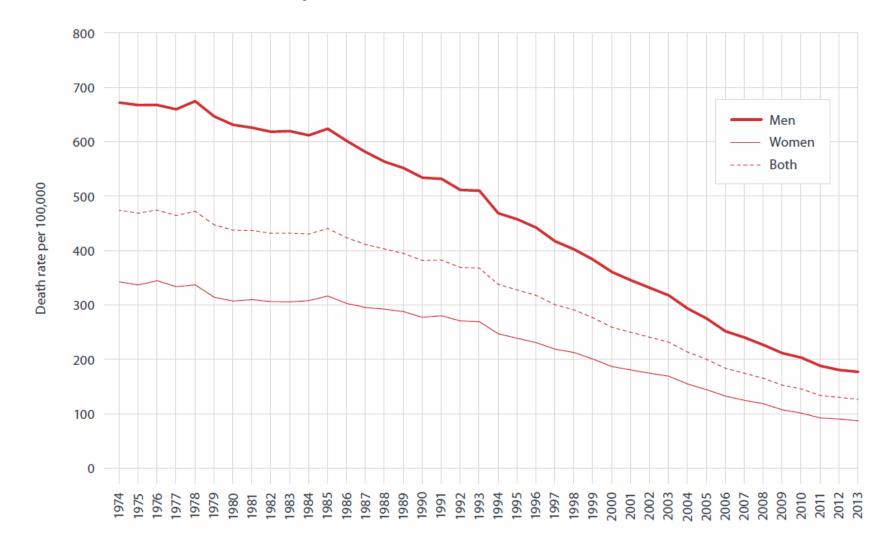




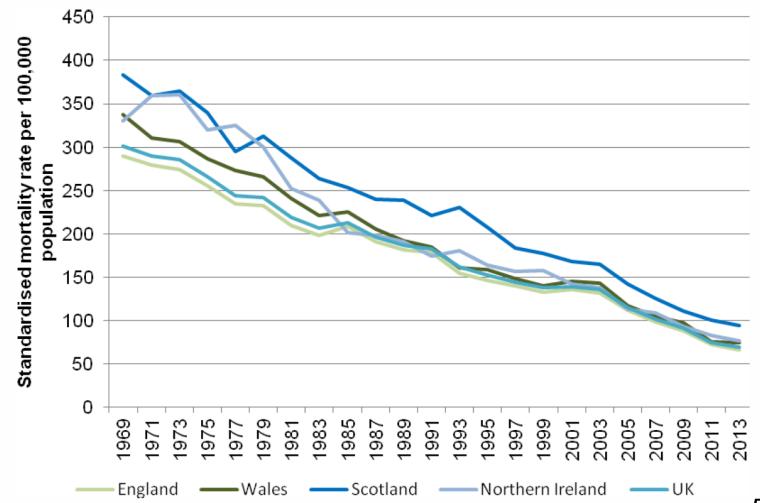
Link: https://www.gov.uk/government/publications/health-profile-forengland/chapter-5-inequality-in-health

Age-standardised coronary heart disease montality rates, UK 1974-2013. 73% reduction overall.

81 % reduction on those under 75 years. (ВНF)



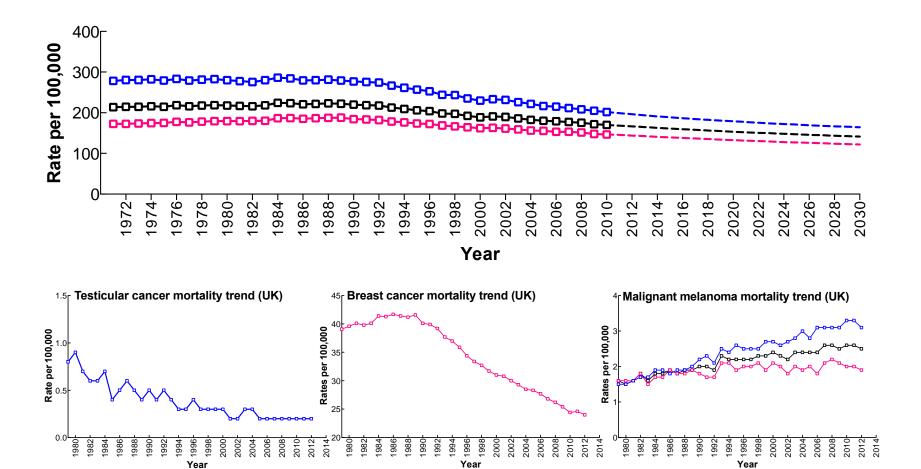
Stroke mortality in UK. Age-standardised Institute for mortality /100,000 population 1969-2013



BHF data

UK cancer mortality projections, all cancers

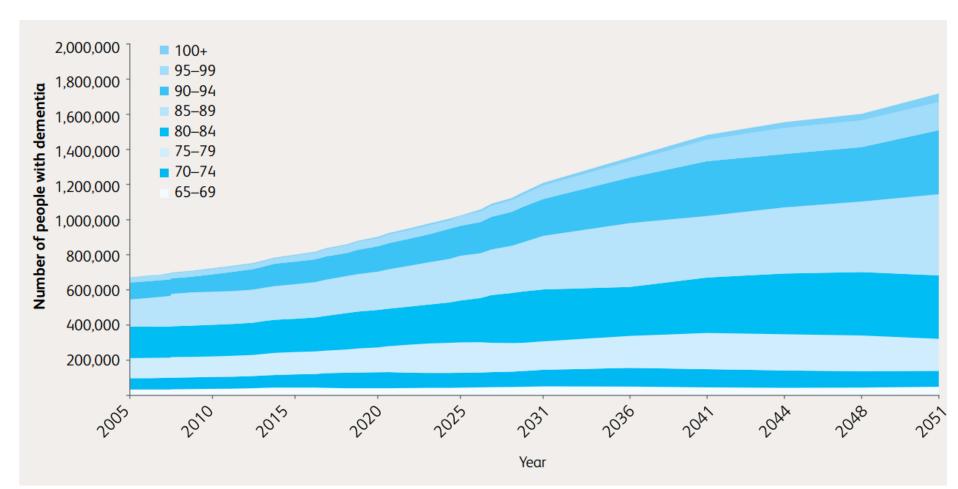




Source: cruk.org/cancerstats

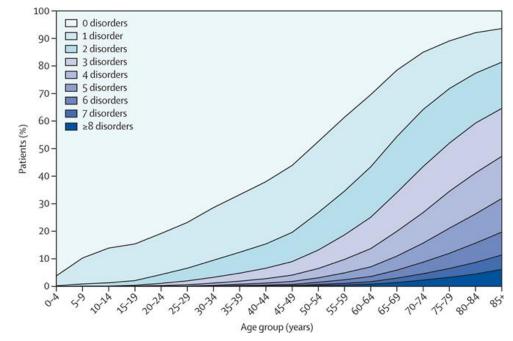
Around 820,000 UK people affected 250 Arealth Research

(Prince et al 2015)



National Institute for Clusters of multi-morbidity Health Research

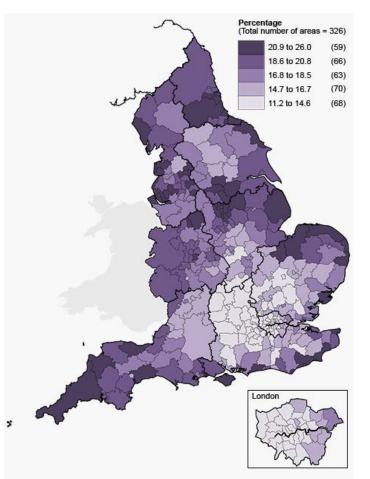
- Strong basic science, epidemiology, applied science essential essential to tackling.
- Work initiated with other funders
- Pushing morbidity clusters to the right in age could be transformational.



Barnett et al 2012

Reported limitations of daily activity *National Institute for* (ONS 2011 data)

- Does not correlate well with research activity.
- Good scientific, as well as ethical, reasons the best research should go to the greatest need.
- Include representative population, study size.





- Welcome life course approach
 "What does it mean to be born well, live well and die well?"
- Over-medicalised view of the future reflects "the bubble"
- Self management not straight-forward issue for patients
- Discussion on inequalities not reflective of patient experience
- Perceived reluctance to grapple with implementation
- Danger of "ghettoising" public involvement need new methods and approaches

"The future is about equality not coding"

Our changing relationship with patients and the public (Denegri)



Past and present

- Involvement, engagement and participation
- The individual
- Clinical research, clinical trials, clinical studies
- Process
- Centrally controlled and driven
- Partnership
- The committee room
- Patients, carers, the public
- National focus
- NIHR and 'the few'

The future

- Co-production, co-creation,
- Mobilisation
- The community
- Public health, social care research
- Outcomes
- Citizen driven, Grassroots
- Collaboration
- Digital, tech, AI, social media
- Consumers
- Global movement thinking 'globally acting locally'
- Charities and industry

National Institute for Health Research

NIHR Dissemination Centre

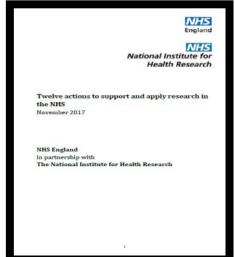


NIHR announces £150m investment in applied health research 01 July 2018

The NIHR has announced £150 million of funding for applied health research to tackle the key issues facing our healthcare system, including the pressures of an ageing population and the increasing demands on the NHS.

Leading academics and technology experts will be able to apply for the research funding to develop health solutions for the future, helping give patients greater independence and choice about how they manage their healthcare.

A total of £135 million will be awarded to new NIHR Applied Research Collaborations (ARCs), which will undertake applied health and care research and support implementation of research into practice.



NIHR Clinical Research Network to support broader range of research studies 12 December 2017

The NIHR Clinical Research Network (CRN) will be extending support into health and social care research taking place in non-NHS settings.

The Department of Health has agreed an important change to the criteria that describes which clinical research studies can benefit from CRN support; this includes expert advice and support to plan, set up and deliver research efficiently

Developing and evaluating complex interventions: new guidance

The MRC is currently looking into updating this. The link here refers to the guidance published in May 2006 which revised the guidelines first drawn up in 2000



www.mrc.ac.uk/complexinterventionsguidance



Our mission is to **improve the health and wealth of the nation through research**. We do this 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 deliver the best possible research
- Attracting, training and supporting the **best health and care researchers** to tackle complex health challenges
- Investing in world-class research facilities and a skilled workforce to accelerate translation of discoveries into new treatments, diagnostics and devices
- Partnering with other public funders, charities and industry to maximise the value of research to patients and the economy

Strategic priorities



- Responding to **demographic pressures** inc ageing, disease clusters of multimorbidity and frailty
- Building research capacity and capability in underserved areas of greatest need, e.g. social care, public health, primary care and mental health

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- Encouraging **applied health research activity to follow patient need** and attract the nation's leading researchers
- Implementation of the **NIHR Training Strategy**, inc NIHR Academy
- Equality, diversity and inclusivity in the research workforce, research participants and those who shape the research agenda (inc team science)
- Maximise the benefit to LMICs of our ODA funding portfolio by adding distinctive value to the funding ecosystem



- Patient data, AI, machine learning, "omics" inc genomics etc.
- Better evidence synthesis, new research methodologies and greater research inter-disciplinarity (e.g. economics, humanities, social science)
- Simplification and addressing barriers applications forms, peer review, ETCs
- Better linkage with commissioners and elements of system responsible for adoption and diffusion of innovation
- AVIR, NIHR digital and comms strategies
- Cohesion and connectivity of NIHR and of UK life sciences ecosystem
- **Impact** demonstration and quantification

NIHR – what's new?

- Renew and refresh of Best Research for Best (Sept 2018)
- Inclusion of ODA and policy research programme in NIHR
- Explicit focus on responding to predictable demographic and disease trends and some under-served areas e.g. mental health, public health, social care & multi-morbidities
- Emphasis on research activity following patient need in applied health research
- Relationships with health and care system and public(s)
- Training strategy NIHR Academy inc diversity &equality in the workforce
- Methodologies, platforms and focus on inter-disciplinarity