Chief Medical Officer Summit Monday 5 March 2018

BAA UK BioIndustry Association



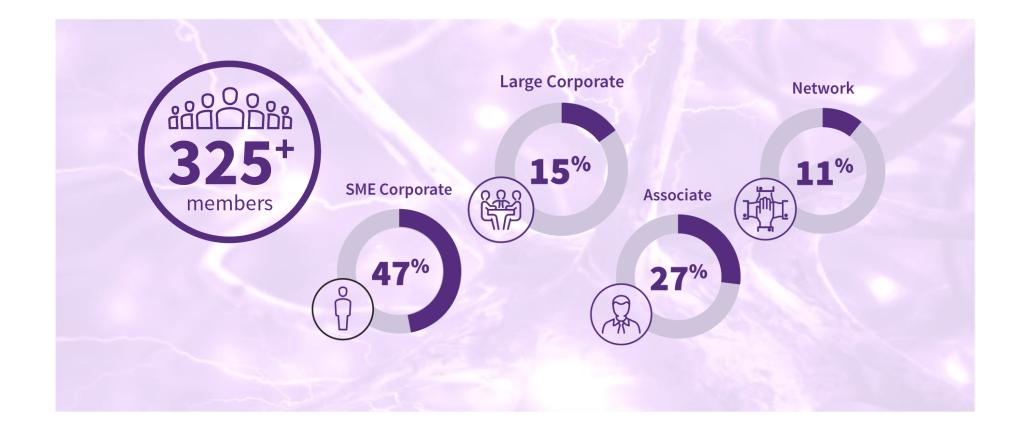




Steve Bates OBE Chief Executive Officer BIA

BIA membership





BIA Membership

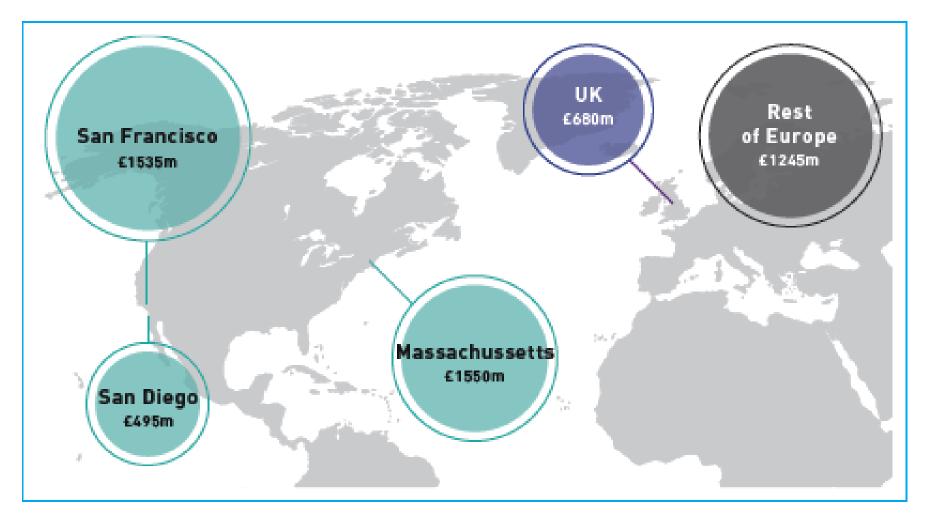
A taste of our members...





Building something great: UK's global bioscience cluster 2016





Influence, connect, save.



Influence

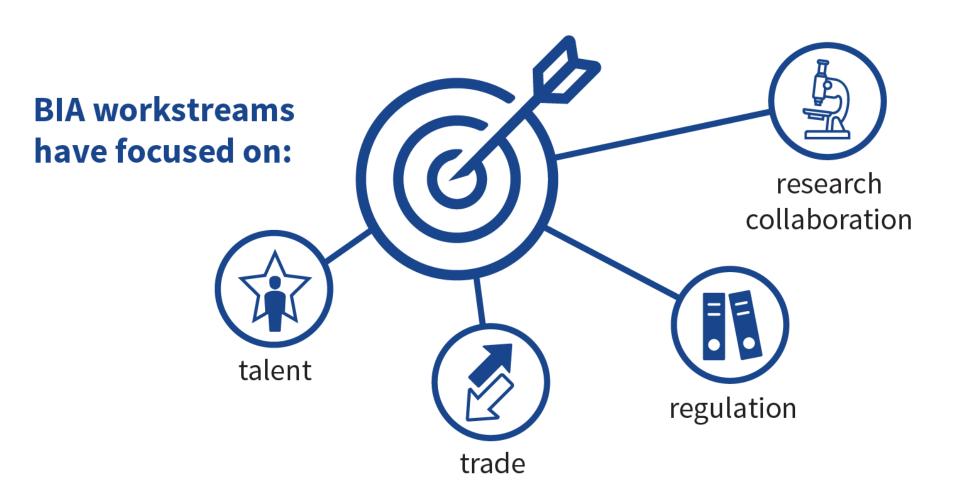




Influence:

Leaving the EU

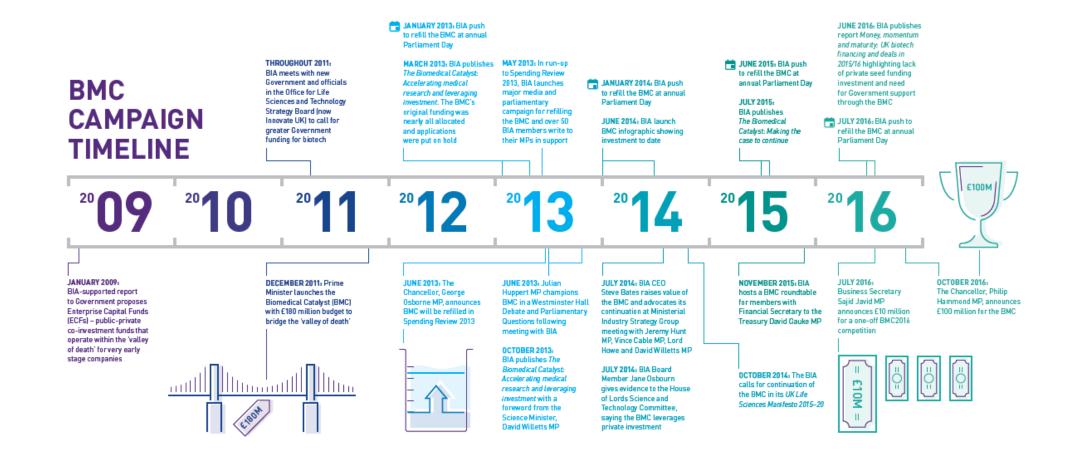




Influence

Finance, tax and investment





Influence, connect, save.



Connect



2,180⁺

webinar attendees

2,380+

delegates (physical)

4,560⁺

webinar and physical delegates combined

6 locations

London, Cambridge, Oxford, Glasgow, Manchester, Cardiff



events

8,260⁺

event newslette subscribers



"You get some really exciting science, some fantastic new companies – which I think are really going to be the core of UK life sciences going forward - and actually in fact a really nice collection of people: very sociable, very engaging, and it's always really good for networking."

JO PISANI PWC STRATEGY, BIA CEO AND INVESTOR FORUM 2017

Our events



Q CEO and Investor Forum



Q Joint BIA/MHRA Conference **Q** UK Bioscience Forum





o bioProcessUK



Q Women in Biotech



Q Parliament Day



Q Regional events



Science & finance webinarsBrexit Briefing webinars



Connect





2,200+

LinkedIn group members

130⁺

Blogs published in 2017

300*

app downloads

Media mentions: a month average

20

6,540⁺

Twitter Followers



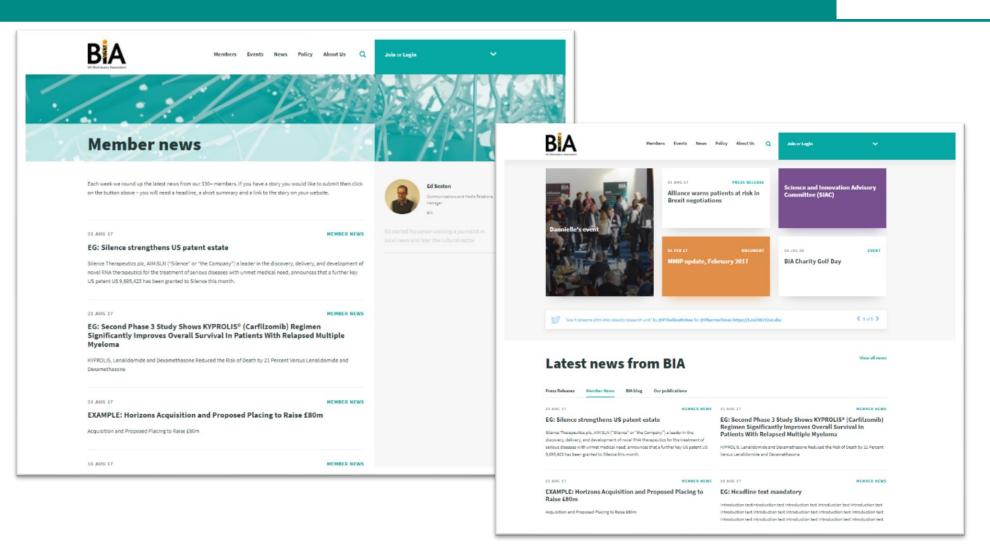
YouTube views

"May I just congratulate you on organising a wonderful evening. The speakers were truly inspirational - I wish I had had the opportunity to hear such talks and encouragement when I was starting out! - the venue convenient and the chat afterwards very enjoyable. I think you have a good format that I hope will continue to be repeated."

JULIE BARRETT-MAJOR AA THORNTON, WOMEN IN BIOTECH 2017

Our website



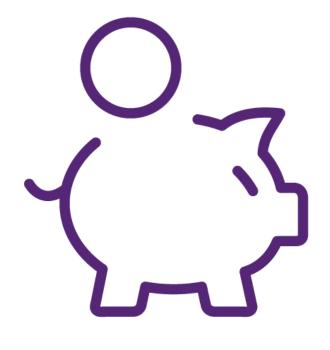


Influence, connect, save.





















Members have saved over E6 MILLON

(average of 56% off list price!) in 2017.

8 BIA Advisory Committees



BIA ADVISORY COMMITTEES 2018

Cell and Gene Therapy

Engineering Biology

Finance and Tax

Intellectual Property

Manufacturing

Regulatory Affairs

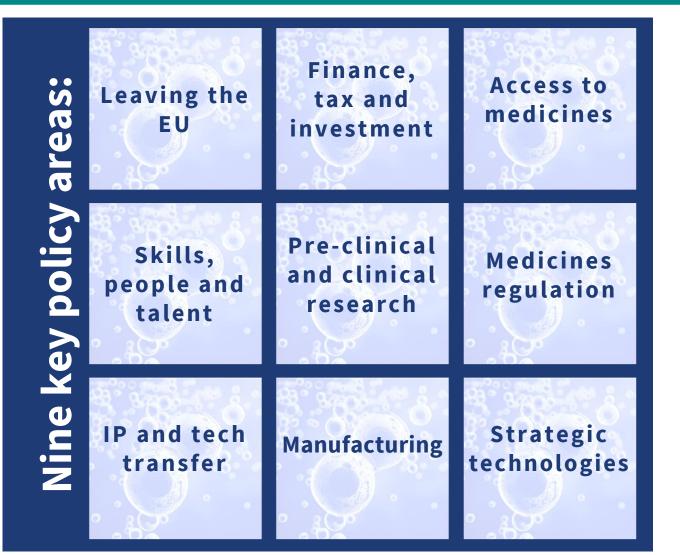
Science and Innovation

Genomics – new for 2018

People – in transition for 2018

Committees key part of BIA Influence work





2018 priorities for BIA Influence work



Brexit	Industrial Strategy
Patient Capital Review	Accelerated Access

Celebrating sector success

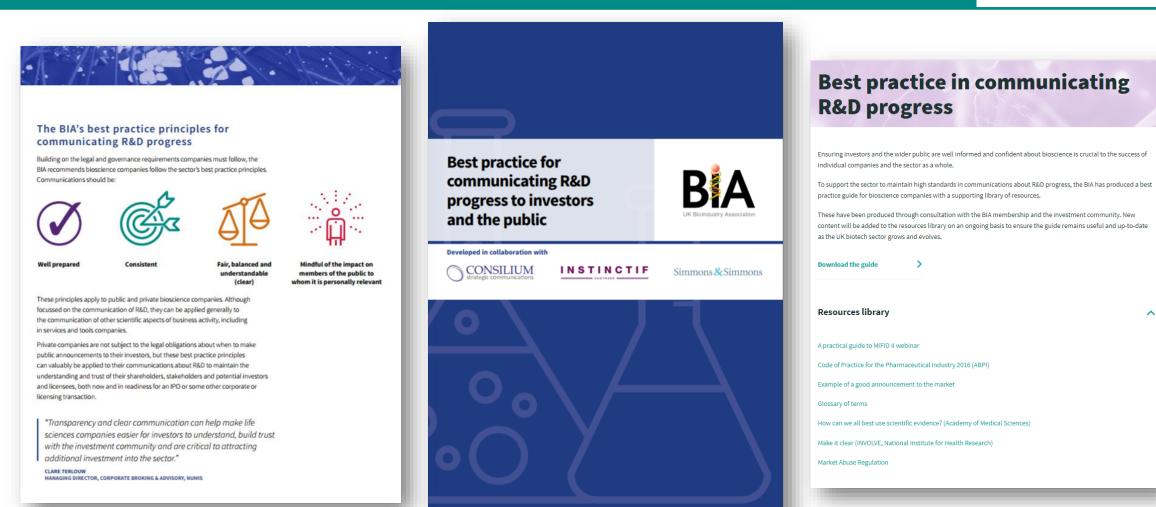
Additional and emerging BIA groups





2018 so far – Corporate **Communications Guide**





www.bioindustry.org

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2018 so far – 2017 finance report





Thank you



In partnership with



Event supporter

Only Medics

BIA Annual supporters









Keynote speaker





Dr Louise Wood Director of Science, Research & Evidence Department of Health





Collaborating with NIHR to advance drug development

Chief Medical Officer Summit 2018

5 March 2018

Dr Louise Wood Director of Science, Research & Evidence Department of Health

@klouisewood

CURRENT CONTEXT

NHS National Institute for Health Research





Accelerated Access Review



Brexit

UKRI & ISCF



General Data Protection Regulations



Department for Digital, Culture Media & Sport

NHSE – Five Year Forward View Next steps



General Election 2017



NIHR – Mission

National Institute for Health Research

Improving the health and wealth of the nation through research

- 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.

THE LANCET

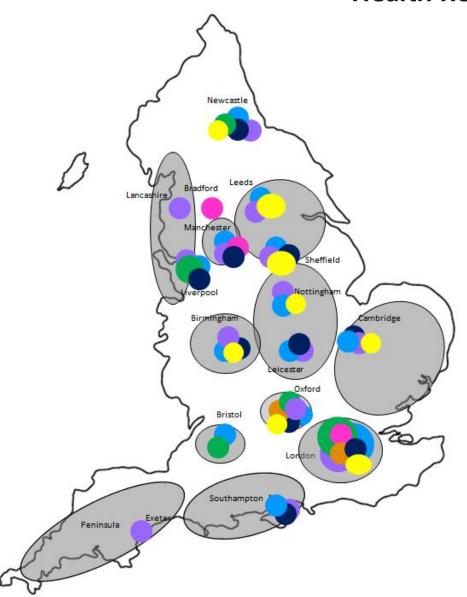
"The NHS has benefited enormously from the National Institute for Health Research (NIHR) and its approach to clinical research in the past 10 years; its need for the NIHR will be even greater in the future."

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Founded 1823 - Published weekly

NHS National Institute for Health Research



NIHR Infrastructure Schemes



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NIHR Clinical Research Network

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National Institute for Health Research

South Londor

AHSN Ares

15 Local Clinical Research Networks (LCRNs) All therapy areas delivered North East and North Cumbria AHSN Area by each LCRN Yorkshire and Humberside AHSN Area Boundaries align with AHSNs North West Coast AHSN Greater AHSN AN Allows flexible deployment of resources East Midlands AHSN Area West Midlands And since 2006: Financial year 2016/17: AHSN Area Oxford **AHSN Area** UCL Partners AHSN Area Vest of England AHSN Area 666,630+ 99.9% NHS 1000+ new Kent, Surrey and Sussex AHSN Are 2055 studies South West Peninsul AHSN Area patients recruited Trusts research CDAs signed 729 commercial Imperial Partners since 2006 34,648 active AHSN Area 79% commercial commercial

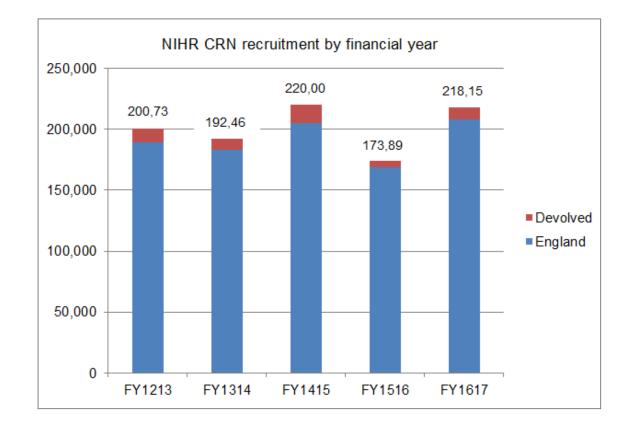
NIHR Infrastructure and BIA members



NIHR Infrastructure	BIA members active projects 2016/17
Biomedical Research Centres (BRCs)	1071
Biomedical Research Units (BRUs)	221
Clinical Research Facilities (CRFs)	1460
Diagnostic Evidence Co-operatives (DECs)	15
Healthcare Technology Co-operatives (HTCs)	2
Collaborations for Leadership in Applied Health Research and Care (CLAHRCs)	1
Total	2770

Clinical Research Network (CRN) 2016/17:

- 1,702 open BIA member studies
- 208,231 participants recruited



Impact of NIHR and BIA Members





Domainex collaboration with NIHR Respiratory Translational Research Partnership helped Domainex to secure a £1.4m Biomedical Catalyst Award to develop molecule effective ir. COPD



Oxford BioMedica collaboration with NIHR Cambridge Biomedical Research Centre to conduct Phase 1 Gene Therapy study for Parkinson's Disease





UCB Biopharma partnership with NIHR Guy's and St Thomas' Biomedical Research Centre is enabling trials of immunotherapy MultiPepT1De, aimed at halting the progression of Type 1 diabetes

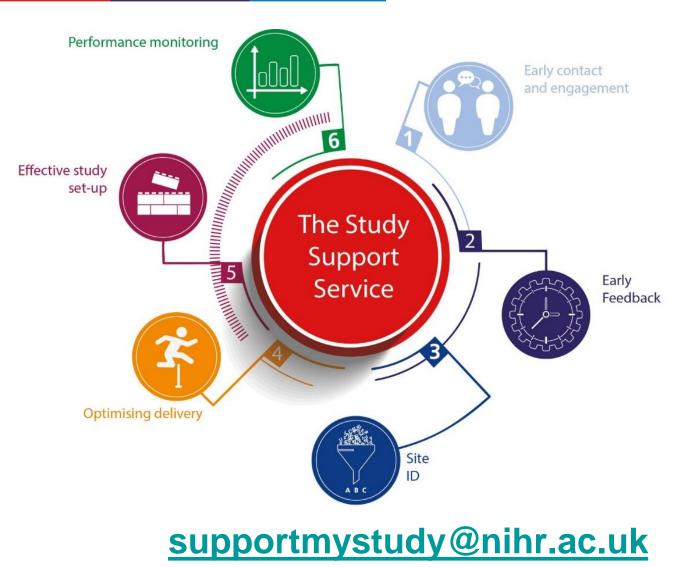
OxfordBioMedica

Orchard Therapeutics partnership with The University of Manchester and Central Manchester University Hospital NHS Foundation Trust and supported by the NIHR/Wellcome Trust Manchester CRF, enabled trials of stem cell gene therapy treatment to reverse Sanfilippo disease

NIHR Study Support Service

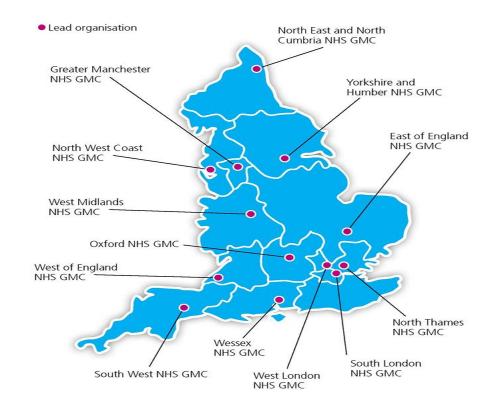
National Institute for Health Research

- Single point of contact
- Any stage of product development, location, study type, study size, therapy or research area
- NOCRI and NIHR CRN will work together to provide you with tailored support to access all of the NIHR.



Building a genomic medicine infrastructure

- Genomics England
- Illumina NHS Genomic Medicine Sequencing Centre in Hinxton
- UK Data Infrastructure for Genomic Medicine (with MRC)
- NIHR National Biosample Centre state-ofthe-art facility to store the samples
- 13 NHS Genomic Medicine Centres in England to enrol, validate and feedback to patients



National Institute for

Health Research







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?

http://smapp2rand.org/surv4/TakeSurvey.aspx?SurveyID=84KM47m5



of the public by 2040

Optimising the research environmen for a healthier, fairer future September 2016

The Academy of Medical Sciences



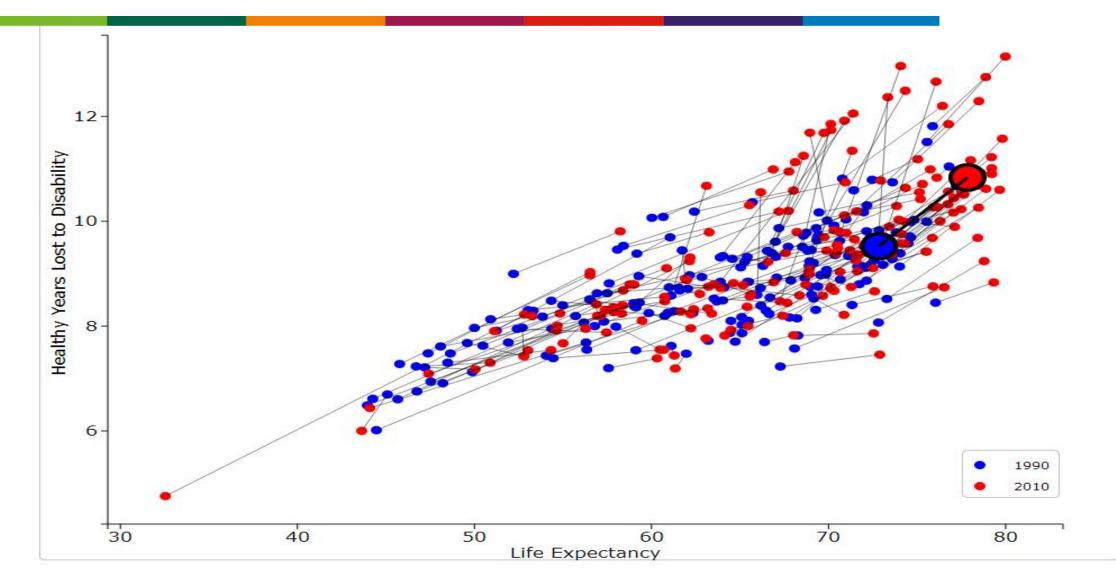


KALEIDOSCOPE HEALTH & CARE



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

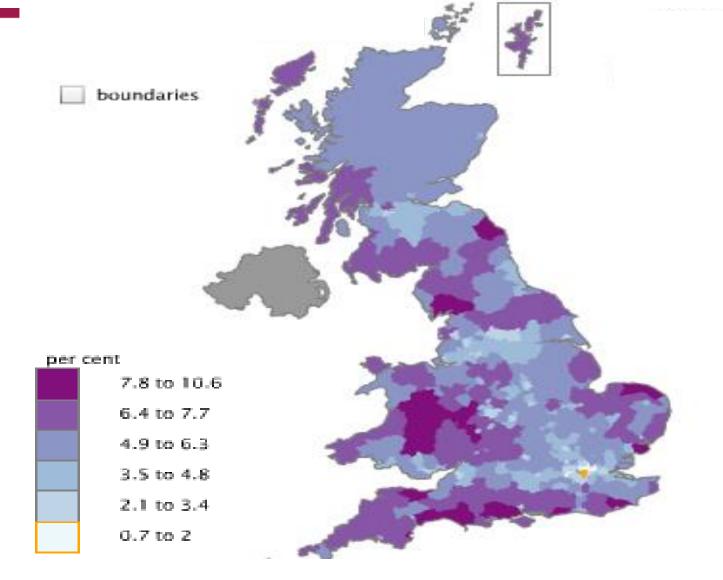




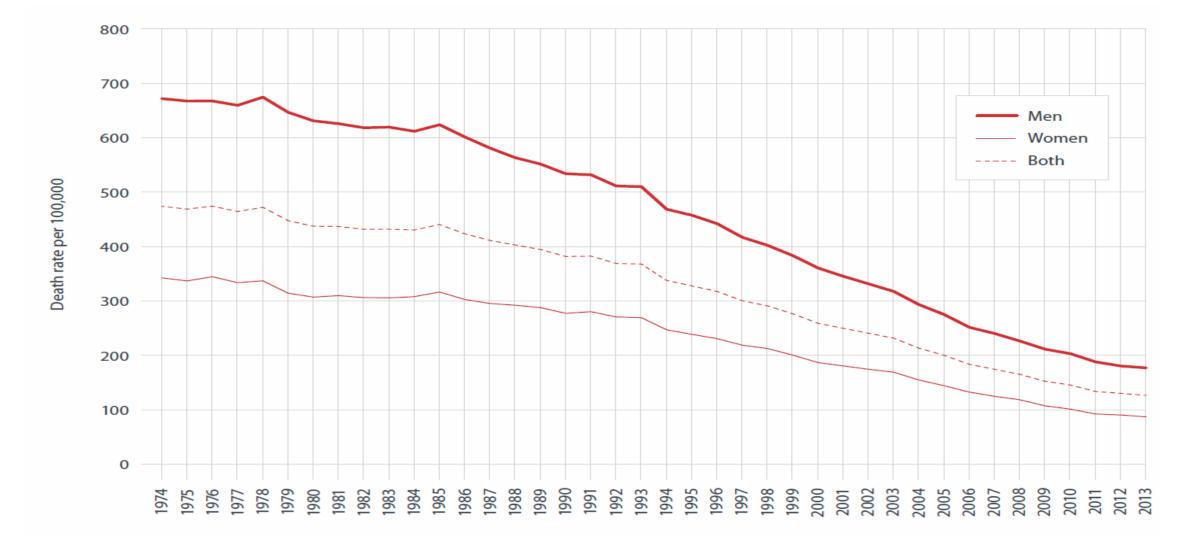
Population 85 and over: 1992, 2015, 2033 (ONS).

NHS National Institute for Health Research



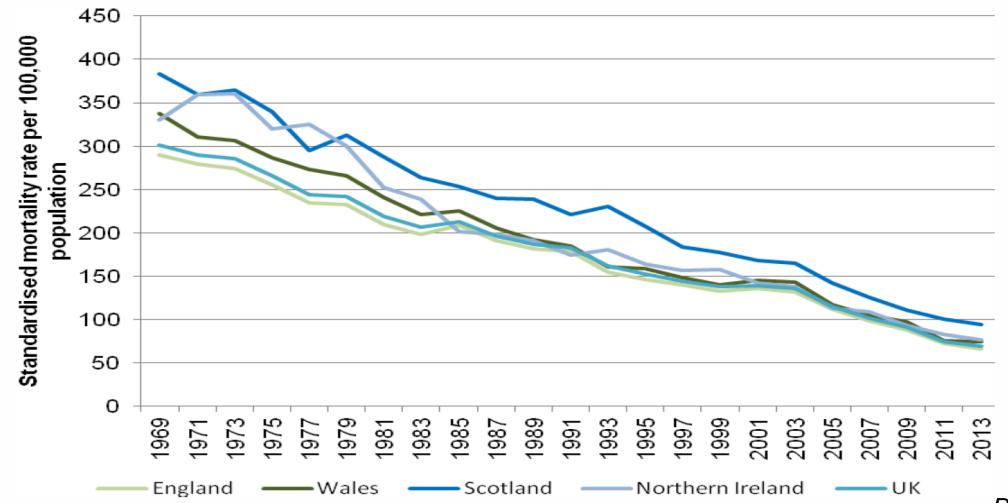


Age-standardised coronary heart disease mortality rates, UK 1974-2013. 73% reduction overall, 81% reduction on those UK 1975 years. (BHF)



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

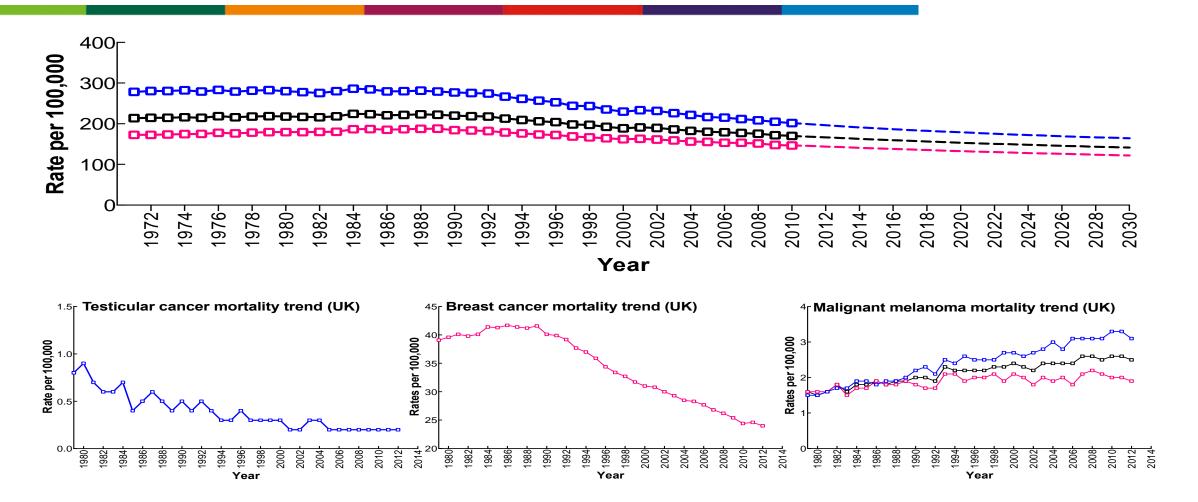




BHF data

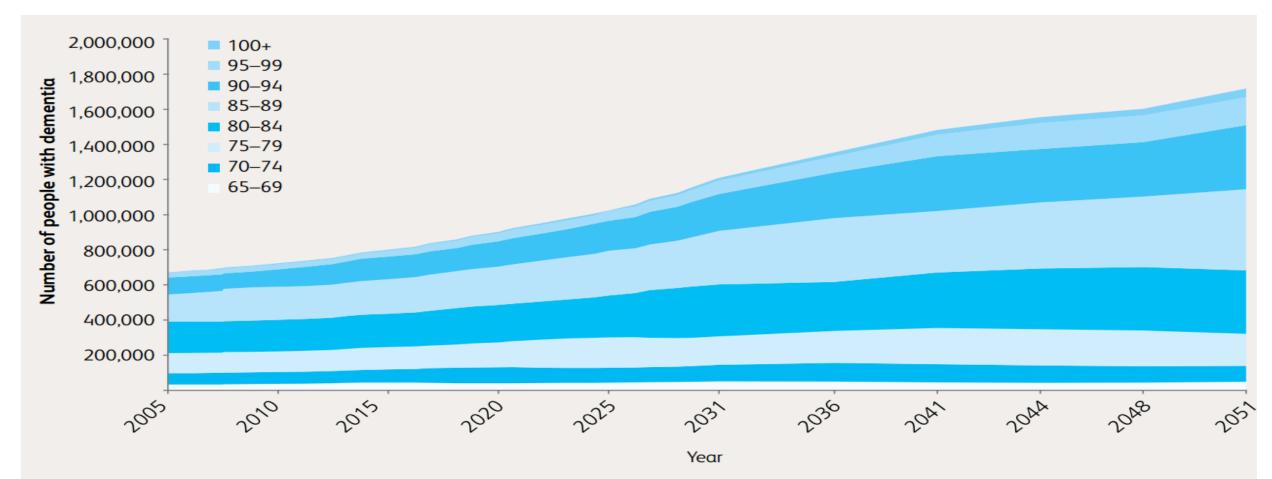
UK cancer mortality projections, all cancers





Source: cruk.org/cancerstats

Around 820,000 UK people affected 2016. Current projections. (Prince et al 2015)



NHS National Institute for Health Research



"A non-random series of predictable clusters of conditions"

- Multi-morbidity increasing in absolute terms and relative to single morbidity.
- Science has recently become better at being vertically organised for specific conditions ('bench to bedside' etc) but not horizontally between them.
- Current medical specialisation and guideline-based medicine is optimised for dealing with single diseases.
- Research groups, grant-giving bodies, journals all tend to handle multi-morbidity badly.
- Older people and multi-disease often systematically excluded from studies.