

Progress on public health and health inequalities? Looking back and looking forward

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ADPH Yorkshire and the Humber conference, Cloth Hall Court, Leeds

Running order

1. Where we've been

- 1997-2010
- 2010-15

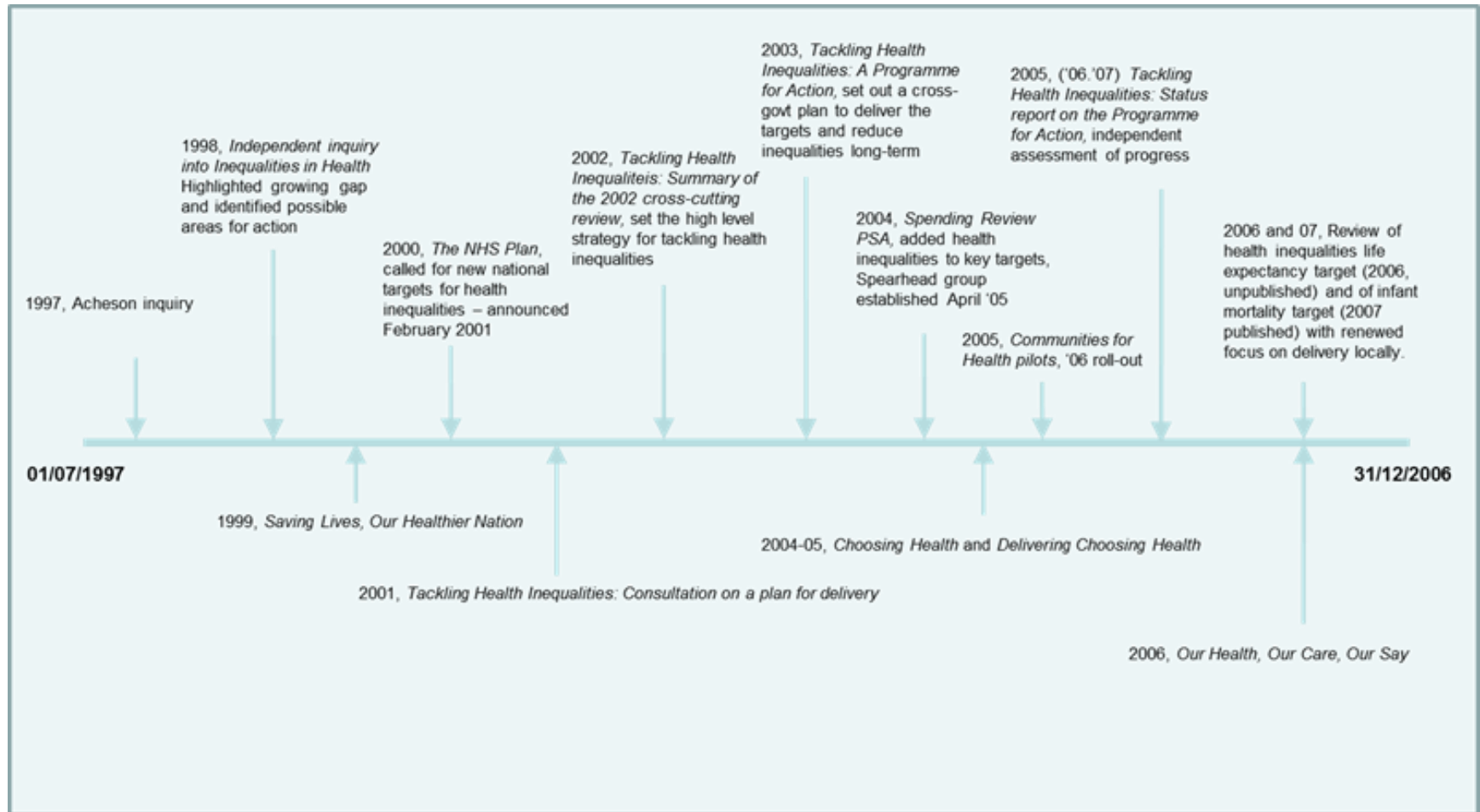
2. Where we are now

3. Where we should be heading, some thoughts

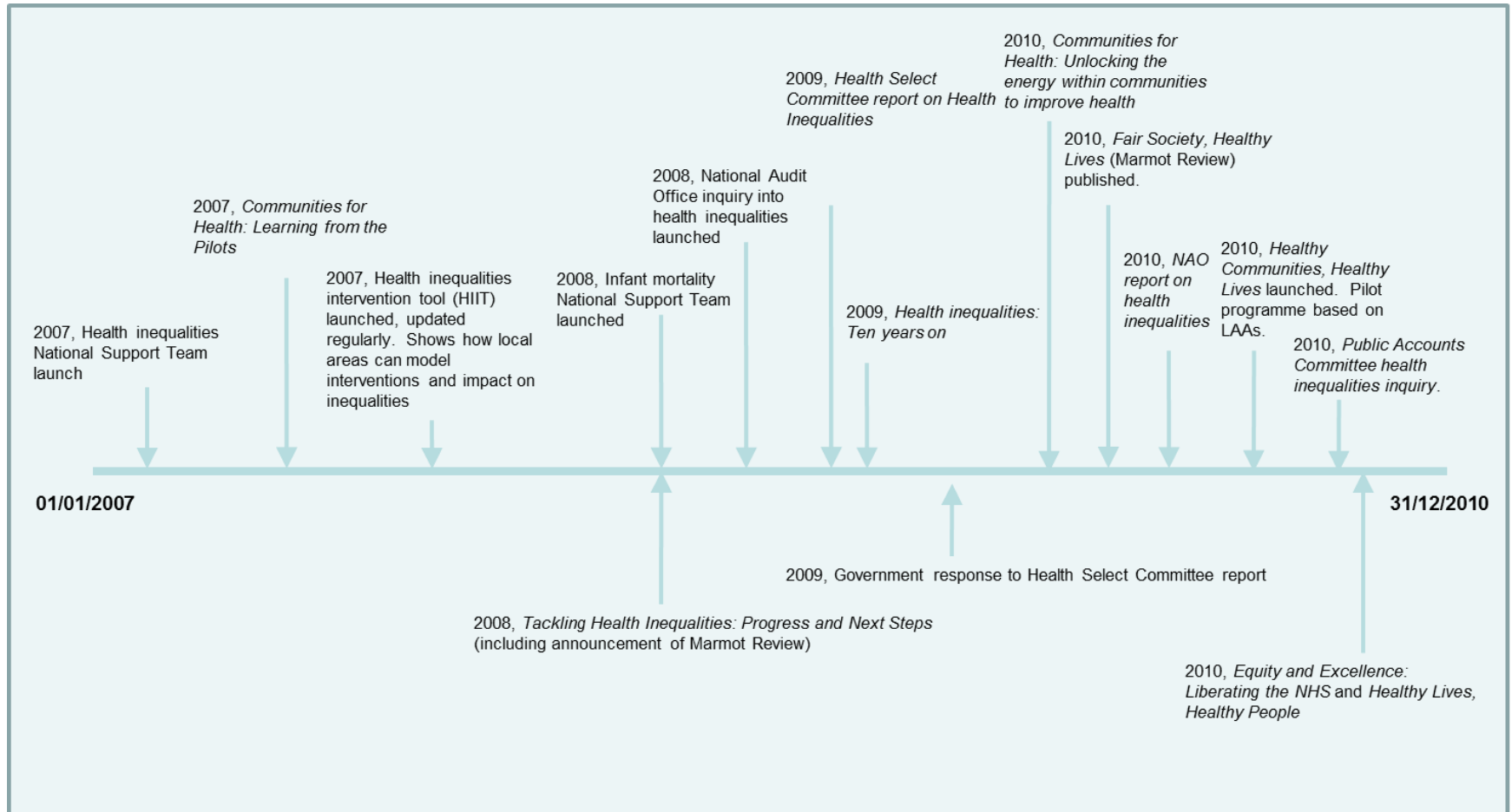
- Keep looking back
- Integration
- Putting the NHS in its place
- Behaviours, focus on people not behaviours
- Towards connected population health systems

Labour 1997-2010

1997-2003, lots of “talk”



2006-2010, lots of “action”



A focus on targets (with some money)

“Starting with local authorities, by 2010 to reduce by at least 10 per cent the gap in life expectancy between the fifth of areas with the worst health and deprivation indicators (the spearhead group) and the population as a whole.”

“Starting with children under one year, by 2010 to reduce by at least 10 per cent the gap in mortality between the routine and manual group and the population as a whole.”¹

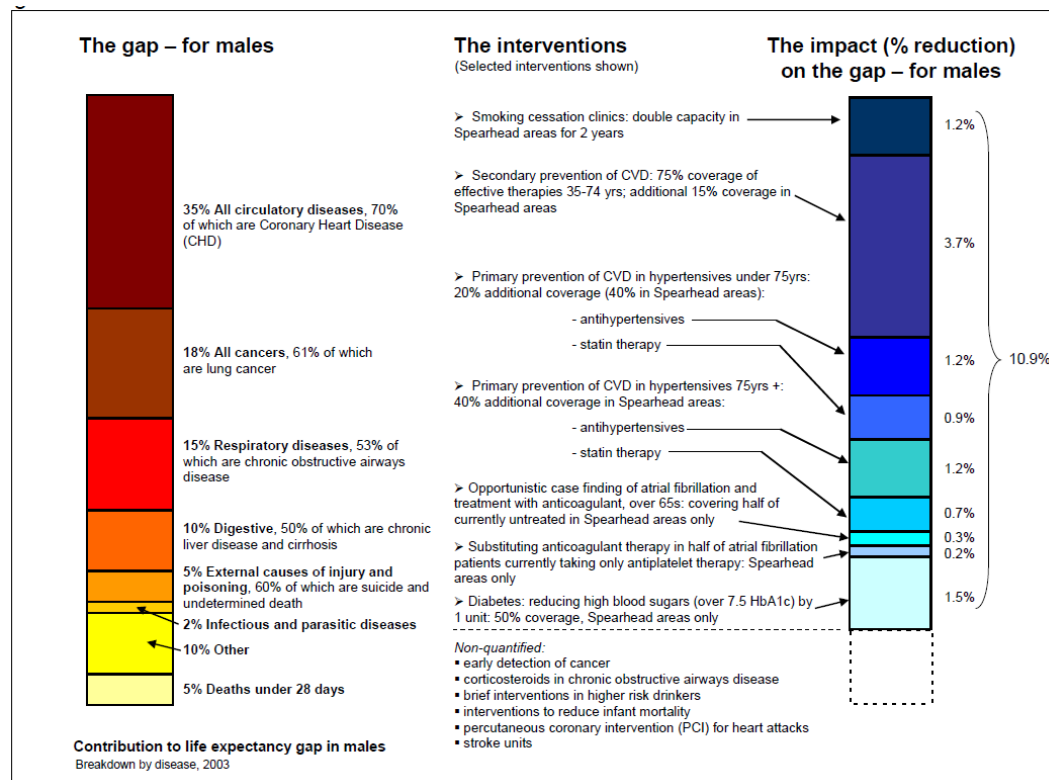
› Operationalised through

- Definition of Spearhead local authorities
- More specific money (in the early years) on top of allocations (already weighted for deprivation)
- Performance management of the NHS (of SHAs)
- Performance support to the NHS (with partners) including analytic tools, National Health Inequalities Support Team
- Wider strategy across govt ('A Programme for Action'), with local authorities and future strategy (commissioning of Fair Society, Healthy Lives, aka Marmot Review)

..main focus scaled up secondary prevention

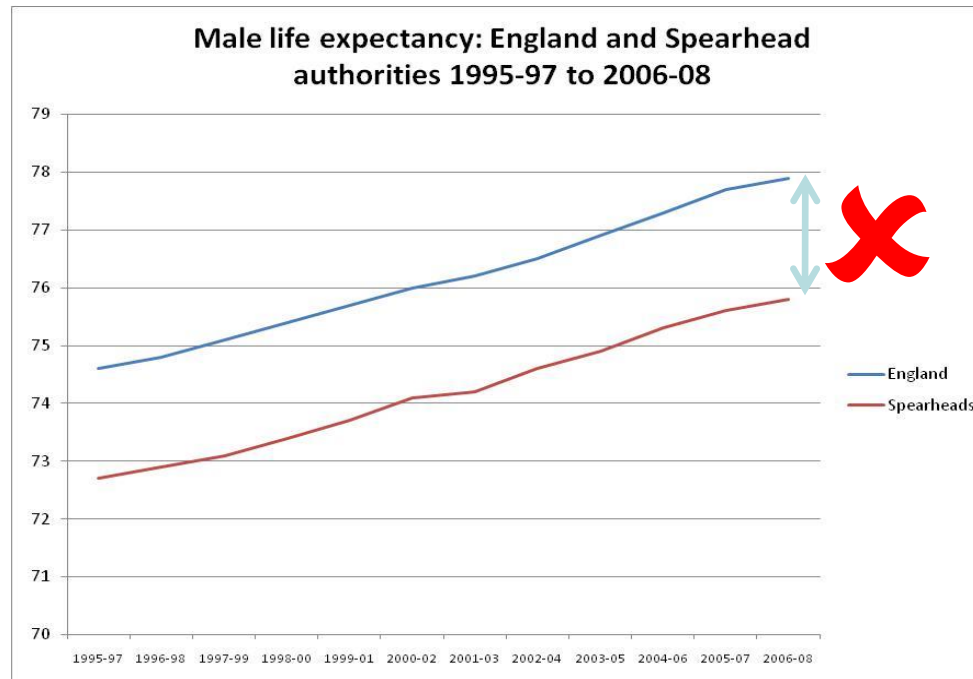
- › Good treatment in primary care is the chief way to quick wins in narrowing life expectancy gaps

Department of Health modelling of the life expectancy gap between the most deprived areas with health inequalities problems (former “Spearheads”) and England and the evidence of what can close the gap



The NAO evaluated Labour's time in office

- › Main* target to narrow gap in life expectancy by 10% between Spearheads and non-Spearheads



* Other element an infant mortality target, it was met, after initial widening. Although important in itself, in scale terms for most areas, the infant mortality target is quantifiably much less significant, and not discussed here.

Evaluation – the target

› NAO 2010

- A “serious attempt”, but started too late
- At the end DH knew what to do, in terms of NHS role, but failed to do it

› Machenbach 2011

- Did not address the most relevant “entrypoints”, or appropriate scale
- Hampered by lack of evidence on interventions, *“reducing health inequalities is much more difficult than most researchers had forseen.”*

› McGuire et al 2011

- Self-assessed health, long-standing illness and health limitations didn’t improve in Spearheads compared to non
- Arguably though, these were not the focus of the targets or interventions associated with it..

Coalition 2010-15

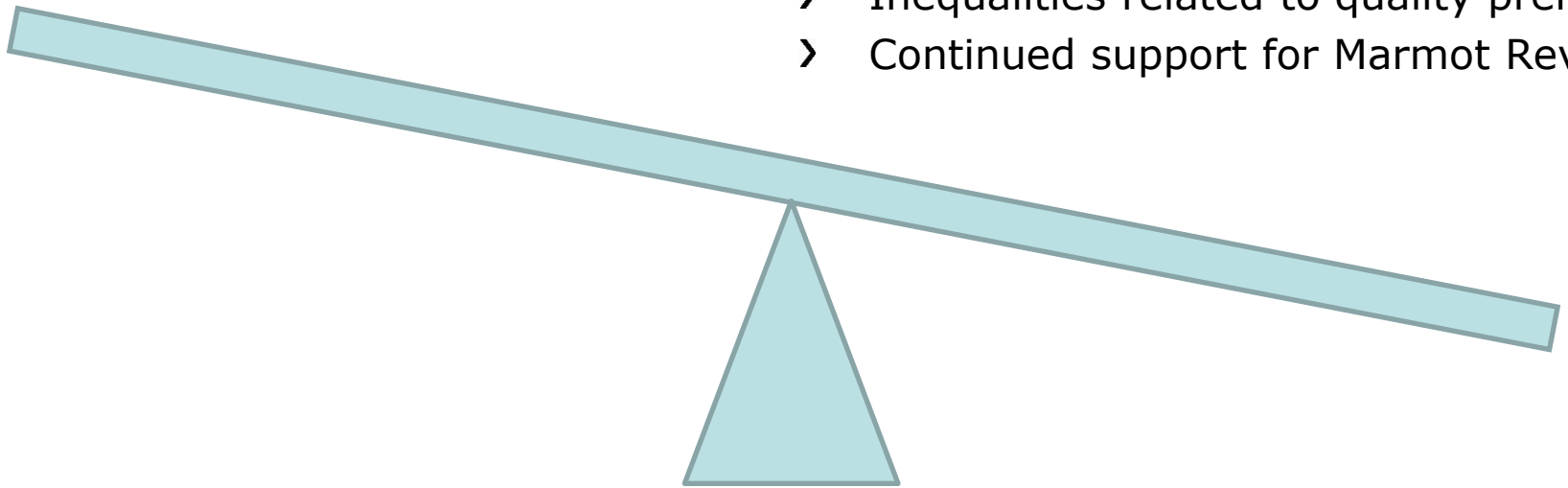
The government's response to inequalities

End of targets and performance management

- › End of inequalities targets
- › End of support (e.g. NSTs)
- › Reduction in inequalities weighting

More focus on incentives

- › New inequalities duties for NHS
- › Health premium with inequalities focus
- › Inequalities in NHSOF/PHOF
- › Inequalities related to quality premium
- › Continued support for Marmot Review




The Coalition's record on inequalities in health



- ☑ Legislation in Health and Social Care Act 2012, a new duty on system to have due regard to inequalities in health
- ☑ NHS England beginning to use its operational independence – putting more weight on deprivation in NHS resource allocation and more focus on representativeness of its own workforce
- ☑ Some of the structures and tools are in place, if used. For instance PHE, local authority role (with funding), Health and Wellbeing Boards, new legislation
- ☑ HWBs “get Marmot” (but yet to move to significant action as opposed to strategic decisions)

The Coalition's record on inequalities in health



- ✗ Legislation hasn't bitten, despite warm words in NHS mandate, Dept of Health has not held the system to account for reductions in inequalities in health outcomes
 - ✗ An opportunity missed, NHS England as a monopoly purchaser of primary care could have been transformative in focussing primary care on inequalities reduction
 - ✗ Setting up PHE was assumed to "sort inequalities in health" in and of itself, health premium incentive risible (regardless of views on desirability), MECC not a national priority
 - ✗ Wider government role inequalities creation, and solution, has been largely ignored – cross-government sub-committee on public health (where HIAs could have happened) abolished
- 
- ✗ Overall, a clutch of disconnected, under-powered sub-strategies, not helped by fragmentation of system leader role

The Coalition's record on inequalities in health



"The coalition's own brief assessment of its record is buried in the Department of Health's annual accounts, stating 'good progress' has been made to 'embed action on inequalities across the system'. There is some truth in this, including legislative change and the Workforce Race Equality Standard. But across the term, the lack of a coherent strategy and translating that into accountability means the initial rhetoric has not been lived up to."

Where are we now?

The Department's 2016-17 annual report

Indicator	Inequality by area deprivation (measured by the slope index of inequality)			Latest data compared to...	
	Baseline	Previous	Latest	Baseline	Previous
Life expectancy at birth (males)	9.1	9.1	9.2	Widened	Widened
Life expectancy at birth (females)	6.8	6.9	7.1	Widened	Widened
Healthy life expectancy at birth (males)	18.6	18.9	18.9	Widened	Static
Healthy life expectancy at birth (females)	19.1	19.7	19.6	Widened	Narrowed
Potential years of life lost from causes am healthcare – ad 100,000)	2,817	-	3,194	Widened	-

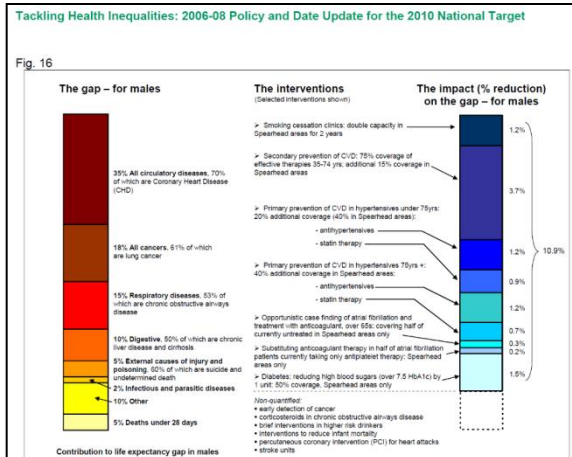
Indicator	Inequality by area deprivation (measured by the slope index of inequality)			Latest data compared to...	
	Baseline	Previous	Latest	Baseline	Previous
Life expectancy males (years of)					
Life expectancy females (years of)					
Under 75 mortality rate from cancer (per 100,000)	103.9	103.5	105.5	Widened	Widened
Infant mortality (per 100,000)	3.0	2.7	3.1	Widened	Widened
Under 75 mortality from cardiovascular disease (per 100,000)					
Health-related quality of life for people with long-term conditions (health status score)	0.149	0.150	0.153	Widened	Widened
Unplanned hospitalisation for chronic ambulatory care sensitive conditions (per 100,000)	978	1,009	1,007	Widened	Narrowed
Emergency admissions for acute conditions that should not usually require hospital admission (per 100,000)	932	952	965	Widened	Widened
Patient experience of GP service (% reporting good experience)	5.2	6.5	7.4	Widened	Widened
Access to GP services (% reporting good experience of making appointments)	5.2	6.8	8.2	Widened	Widened

Source: Adapted from Table 8 , [Department of Health Annual Report and Accounts 2016 to 2017](#)

- › Inequalities on all 15 indicators have widened since baseline (mostly 2010-12)
- › For 9 of the 12 for which there has been some mid-point measurement since baseline, latest data shows widening since that mid-point.
- › NB. Point estimates, not confidence intervals

A lost 7 years...?

- Could have built on large store of knowledge, using the legislation, NHS mandate and PHE remit letter to deliver using these and other tools



Mock-up national dashboard

Indicators of Health Care Access and Outcome	Average		Equity (Slope Inequality Index)		Overall Equity Trend	Inequity Gap
	Current	Trend	Current	Trend		
1. Primary care supply (patients per GP)	1,689	17.3	-39.08	-105.58	↑	no gap
2. Primary care quality (%)	77.4%	0.58%	1.45%	-0.34%	↑	1.5 points
3. Hospital waiting time (days)	62.9	3.61	2.16	2.99	↓	4,194,451 days waited
4. Preventable hospitalisation (per 1,000)	5.70	-0.15	5.96	-0.06	↔	155,265 people admitted
5. Repeat hospitalisation (%)	14.4%	0.23%	6.7%	0.47%	↓	276,439 people admitted
6. Dying in hospital (%)	43.4%	-3.51%	5.7%	0.37%	↔	13,009 deaths in hospital
7. Amenable mortality (per 1,000)	2.51	-0.24	1.37	-0.16	↔	35,841 deaths
8. Mortality (per 1,000)	8.47	-0.28	4.72	-0.26	↔	122,670 deaths

Figures adjusted as appropriate for age, sex and ill-health. See indicator notes for definitions.

Key: ↑ Getting better, ↔ Not significant, ↓ Getting worse

↑ Getting better, ↔ Not clear, ↓ Getting worse

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Collection

Health equity

Evidence, resources and guidance from Public Health England and partners to help support national, regional and local areas to reduce health inequalities.

Published 15 January 2018
From: [Public Health England](#)

Contents

- Guidance for system wide approaches to reduce health inequalities
- Children and young people
- Work, health and inclusive growth
- Healthy places
- Community engagement and asset based approaches
- Prevention and early treatment
- Economics and health equity
- Inclusion health
- Data and intelligence reports on health inequalities

These resources can help local authorities, commissioners and decision makers make plans to reduce inequalities in health.

If you have any queries or comments on the Health Equity collection page, please contact the Health Equity team at health.equity@phe.gov.uk.

DH Department of Health

Systematically Addressing Health Inequalities

model_v35_for_web

Working in partnership with the Department of Health DH Department of Health

Health Inequalities Intervention Tool

Local area:

[Calculate Results](#) [Print This Sheet](#) [Go To Instructions](#) [Go To Home Page](#)

a breakdown of gap by disease and age:

ap

Intervention(s) and input user data:

Number of infant deaths in the coming year? Persons

Estimated number of quitters in the coming year? Persons

On track to meet target at 2003-05: No No

Life expectancy in years (2003-05): 73.2 78.7

Life expectancy gap (2003-05): 4.9% 3.0%

Results

New life expectancy in years: 73.5 79.0

New life expectancy gap: 4.4% 2.7%

Effect of interventions on life expectancy gap: 9% narrowing 9.9% narrowing

Absolute change in all-age all-cause mortality rate: 26.6 decrease 13.6 decrease

Date & Time of Analysis: 27-Nov-2009 10:59 model_v35

Looking forward

Looking forward

1. Some themes

- Don't be afraid to look back!
- Integration has to be about inequality reduction
- Putting the NHS in it's place
- Behaviour change people, not behaviour focussed

2. Bringing it together: towards connected population health systems

- Goals and connections
- ACOs/ACSs part of picture, not the whole picture

A range of assessments of 1997-2010 are coming...

- › Ben Barr et al have looked at the impact of NHS funding on amenable mortality reductions



- › We are relooking at and updating some of Mannett's work, with a focus on what happened to the end of 2010 and others are looking at the long-term effect of the Spearhead policy
- › My sense, is we will see a greater range of benefit than the NAO suggested

Change is possible – keep looking back

BMJ 2017;355(8010):doi:10.1136/bmj.2017.075110 (Published 26 July 2017) Page 1 of 5

RESEARCH

 **Investigating the impact of the English health inequalities strategy: time trend analysis**

 OPEN ACCESS

Ben Barr senior clinical lecturer in applied public health research, James Higgerson research fellow, Margaret Whitehead WH Duncan professor of public health

Department of Public Health and Policy, Institute of Psychology, Health

Table 1 | Trend in absolute inequalities in life expectancy between the most deprived local authorities and the rest of England, before, during, and after the health inequalities strategy. Trend is shown as the annual increase or decrease (minus values) in the absolute gap in life expectancy (months)

Period, by sex	Annual change (months) in absolute gap in life expectancy between most deprived 20% of LAs and rest of England (95% CI)	P value for trend	P value for change in trend from previous period
Men:			
Before (1983-2003)	0.57 (0.40 to 0.74)	<0.001	
During (2004-12)	-0.91 (-1.27 to -0.54)	<0.001	<0.001
After (2013-15)	0.68 (-0.20 to 1.56)	0.13	<0.001
n=10 692 LA years, R ² =0.74			
Women:			
Before (1983-2003)	0.3 (0.12 to 0.48)	<0.001	
During (2004-12)	-0.5 (-0.86 to -0.15)	0.01	<0.001
After (2013-15)	0.31 (-0.26 to 0.88)	0.29	0.01
n=10 692 LA years, R ² =0.65			

LA=local authority.

Estimates based on fixed effects regression model using LA panel dataset of life expectancy from 1983 to 2015, also adjusted for local unemployment rates.

There are multiple roles for the NHS



Local action on health inequalities
Using the Social Value Act to reduce health inequalities in England through action on the social determinants of health

Practice resource: September 2015



Health and high quality care for all, now and for future generations

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The Equality Delivery System

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Reducing health inequalities resources



NHS England and Public Health England have developed these pages to make it easier for organisations and the public to find information, resources and action being taken to reduce health inequalities in England.

Health inequalities are the preventable, unfair and unjust differences in health status between groups, populations or individuals that arise from the unequal distribution of social, environmental and economic conditions within societies, which determine the risk of people getting ill, their ability to prevent sickness, or opportunities to take action and access treatment when ill health occurs.

For some people in England there are still unfair and avoidable inequalities in their health and in their access to and experiences of NHS services.

There are also actions that can be taken on the social determinants of health which can reduce these health inequalities, for example education, employment and housing.

It's not just this



NHS Workforce Race Equality Standard

The NHS **Equality and Diversity Council** announced on 31 July 2014 that it had agreed action to ensure employees from black and minority ethnic (BME) backgrounds have equal access to career opportunities and receive fair treatment in the workplace.

Simon Stevens, Chief Executive of NHS England, said: “**The Five Year Forward View** sets out a direction of travel for the NHS – much of which depends on the health service embracing innovation, engaging and respecting staff, and drawing on the immense talent in our workforce.

“We know that care is far more likely to meet the needs of all the patients we're here to serve when NHS leadership is drawn from diverse communities across the country, and when all our frontline staff are themselves from diverse communities. Meeting mandatory standards will help NHS organisations

The Workforce Race Equality Standard (WRES) will help NHS organisations to engage and consulting key stakeholders including staff, patients and the public.

It is now included in the NHS standard contract, set out in the **2016/17 NHS standard contract**. NHS Trusts and NHS Foundation Trusts will report WRES baseline data on 1 July 2015.

This for the first time required the NHS, which employs over 12 million people, to demonstrate progress against a number of indicators, including a specific indicator to address the low levels of BME staff in the NHS.

Alongside WRES, NHS organisations use the **Equality and Diversity Standard (EDS2)** to help in discussion with local partners including local authorities, to improve their performance for people with **characteristics** protected by the **Equality Act 2010**. By using the EDS2 and the WRES, NHS organisations will be able to deliver on the **Public Sector Equality Duty**.

Is England Fairer?

The state of equality and human rights 2016

Equality and Human Rights Commission

The health inequalities duty.. and integration

NHS CB and each clinical commissioning group must exercise their functions with a view to securing that health services are provided **in an integrated way** where they consider that this would -

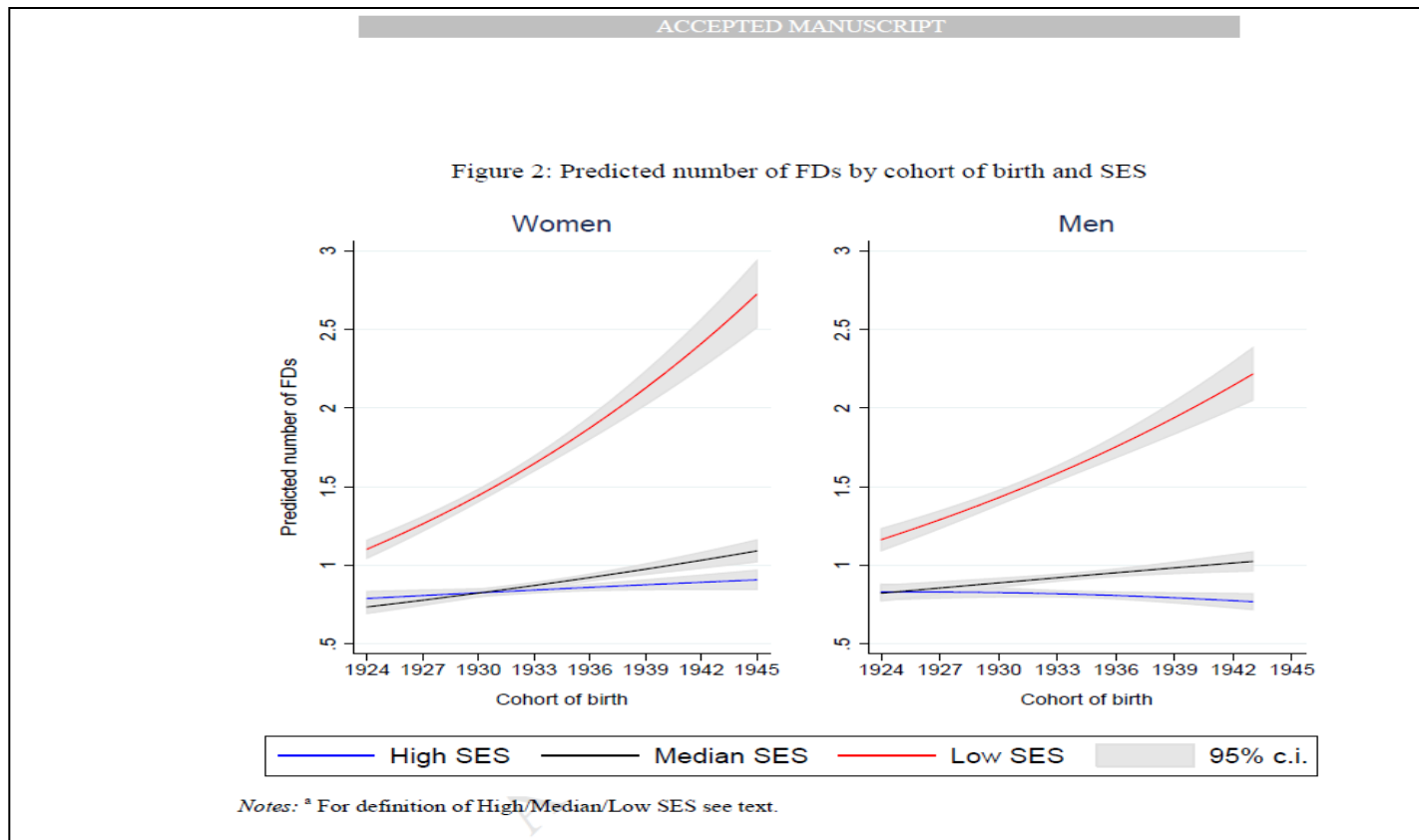
- (a) [improve quality];
- (b) **reduce inequalities** between persons with respect to their ability to **access** those services; or
- (c) reduce inequalities between persons with respect to the **outcomes** achieved for them by the provision of those services.”

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Ideas that change health care

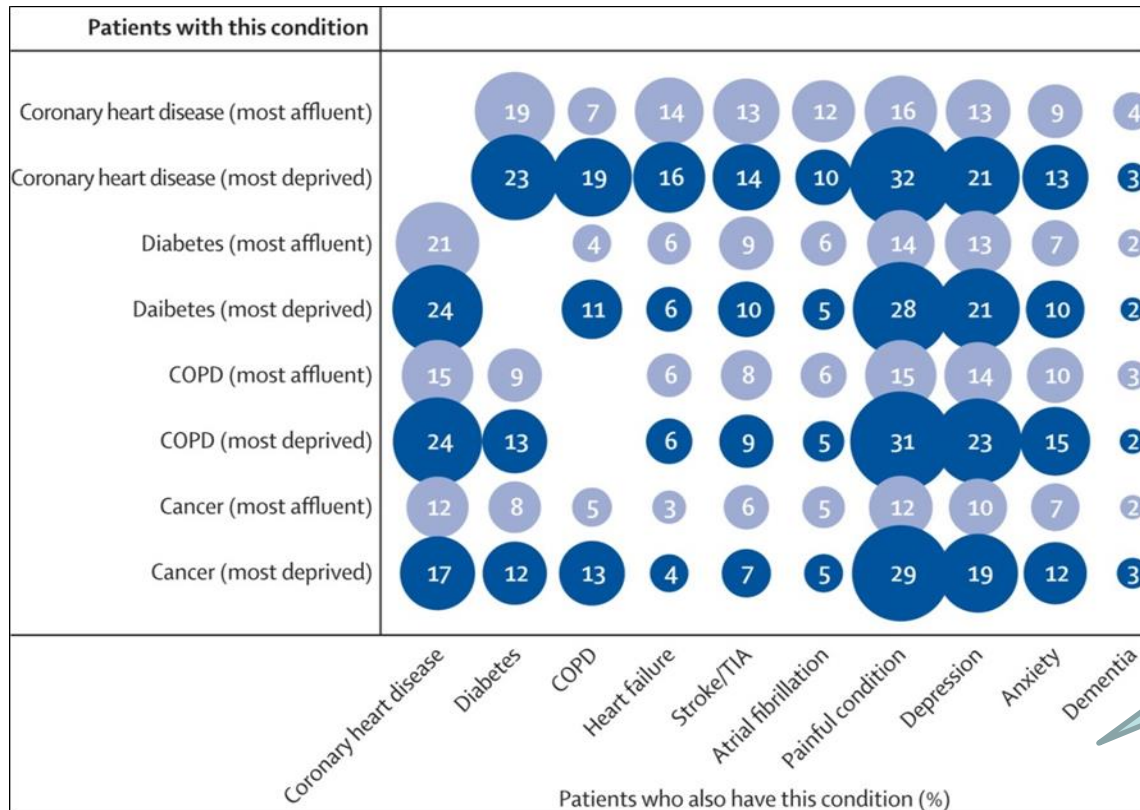
Integration needs to focus on inequality

- › Frailty and functional decline is an inequalities problem



Integration needs to go back up the life-course

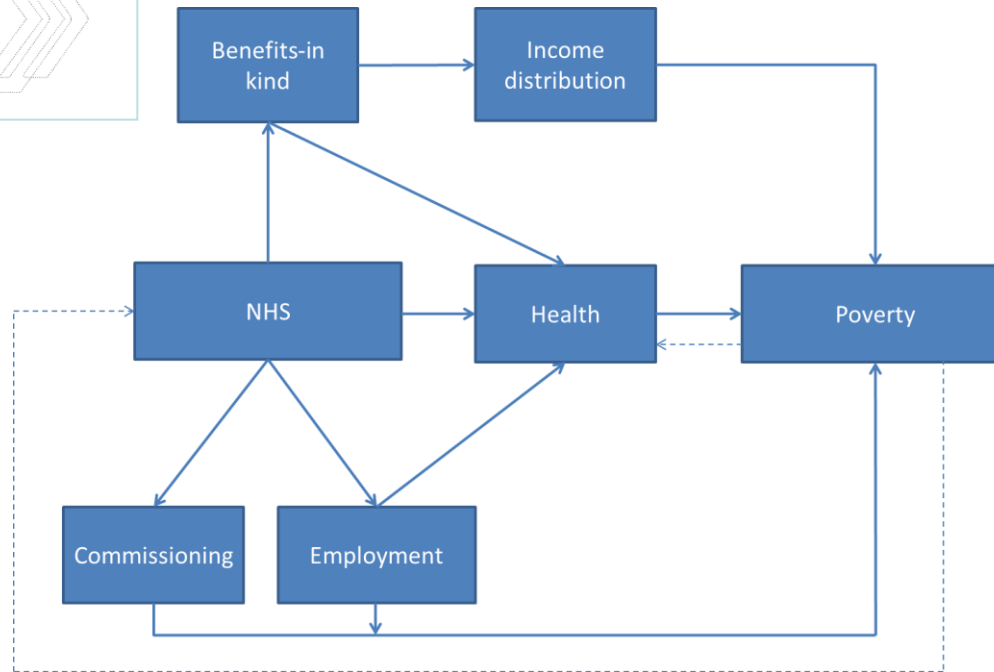
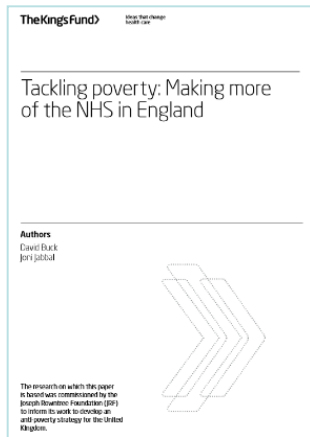
- › Multi-morbidity is not only a frail elderly problem, it is a working age and inequality problem



"Onset of multi-morbidity occurred 10–15 years earlier in people living in the most deprived areas compared with the most affluent, with socioeconomic deprivation particularly associated with multimorbidity that included mental health disorders"

Barnett et al, 2012

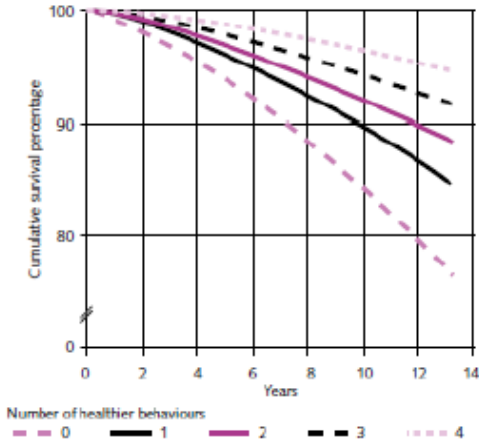
The NHS → recognised/accountable as determinant



- > The very existence of the NHS narrows income inequalities across England by 13%
- > The NHS spends £114mn of commissioning power and employs £1.4mn employees. This needs to work much harder for wider social value, not just treatment and not just lifestyle prevention.
- > 1mn NHS employees are non-clinical. Only half of NHS trusts specify paying the “living wage” in their contracts.
- > Healthcare spending has a higher fiscal multiplier effect than other government spending.

Behaviours cluster → services need to adapt

Figure 4.10: Clustering of lifestyles and its impact on mortality



- Co-occurrence of unhealthy behaviours effect on life expectancy greater than sum of the parts
- 1 in 4 adults 3+ unhealthy behaviours, those with 0 qualifications 5x more likely than those with degrees

Integrated health and wellbeing services

Multi-behaviour IHWS

Marketing/awareness raising

Referrals

Self-referrals

Single-point of access - assessment

One-to-one behaviour advisor

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Single-behaviour IHWS

Marketing/awareness raising

Referrals

Self-referrals

Single-point of access - assessment

Weight management class

Stop smoking

Physical activity classes

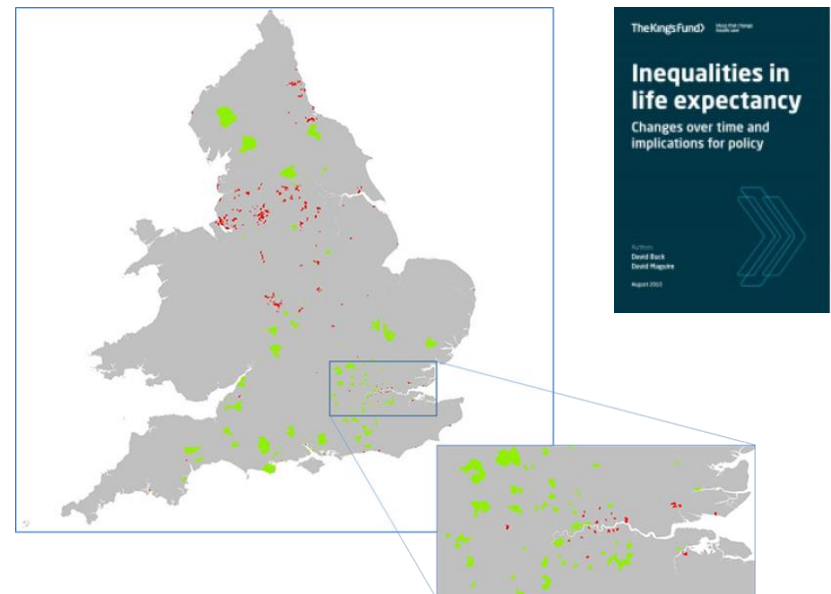
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Wider determinants and 'place', of course

Table 2 What explains life expectancy in 2006–10 across 6,700 areas in England?

Explanatory factors	Impact of every 10 per cent difference between areas on months of life expectancy
Constant	85.3 (years, in absence of explanatory factors)
Wider determinants	
Older people's deprivation	-6.1
Employment deprivation	-11.8
Housing deprivation	-2.2
Behaviours	
Fruit and vegetable consumption	6.9
Binge drinking	-4.0
Services	
More than 1.1 miles from 'other services'	2.0
Demographics	
Male	-7.0
BME status non-white British	-0.9
Impact of being in geographical area on life expectancy	
Area variables	
<i>Travel-to-work areas (suburbs)</i>	
London	5.3
North West	-9.3
<i>Travel-to-work areas (central)</i>	
London	10.4
North West	-9.4
South West	-8.0
<i>Other areas</i>	
North West	-4.5
Yorkshire and Humber	-8.5
East Midlands	-4.2
West Midlands	-2.6
South West	5.1
Number of observations	6,700
Adjusted R ²	0.44

- › London has areas of persistent significantly low and significantly high life expectancy over time.
- › If in travel to work area of central London
 - 46x more likely to have persistently high life expectancy, all other things equal
 - 4x as likely to have low life expectancy, same basis



Not the reason for doing it, but good for NHS budget




- Socioeconomic inequality costs NHS inpatient services in England £4.8 billion a year, if extrapolated to the whole NHS budget, £20bn per year.
- Over a lifetime, men (women) living in the most deprived neighbourhoods cost the NHS 16% (22%) more than men living in the most affluent neighbourhoods, despite having shorter life expectancies.
- Miqdad Asaria, from the Centre for Health Economics said:

"At a time when the NHS budget is under a great deal of pressure this study shows that socioeconomic inequalities in society are exacting a huge bill on the health service."

Developing a King's Fund vision

[Home](#) > [Projects](#) >

A vision for the population health system in England

 Public health [Accountable care](#)

About this project

The King's Fund is a respected commentator on public health issues, and in recent years our work in this area has included in-depth research, support for local authorities and district councils, data analysis and events. Recent work includes research on the wider determinants of health (for example, links between housing and health), inequalities, the future of HIV services in England, public health funding, and the move from integrated care to population health systems.

This project aims to consolidate and build on our previous work programme by setting out a vision for the public health system and population health. We will use this vision to inform and influence the debate about the future of public health and to shape our own work programme.

In developing our vision, we will consider:

- how to define the 'public health system'
- key trends likely to affect public health over the next 10–15 years
- strengths and weakness of the current system
- changes needed to realise our vision, including understanding the role of policy levers such as regulation, taxation, and information
- the implications for the workforce and system leaders, including accountability
- implications for The King's Fund's future work programme.

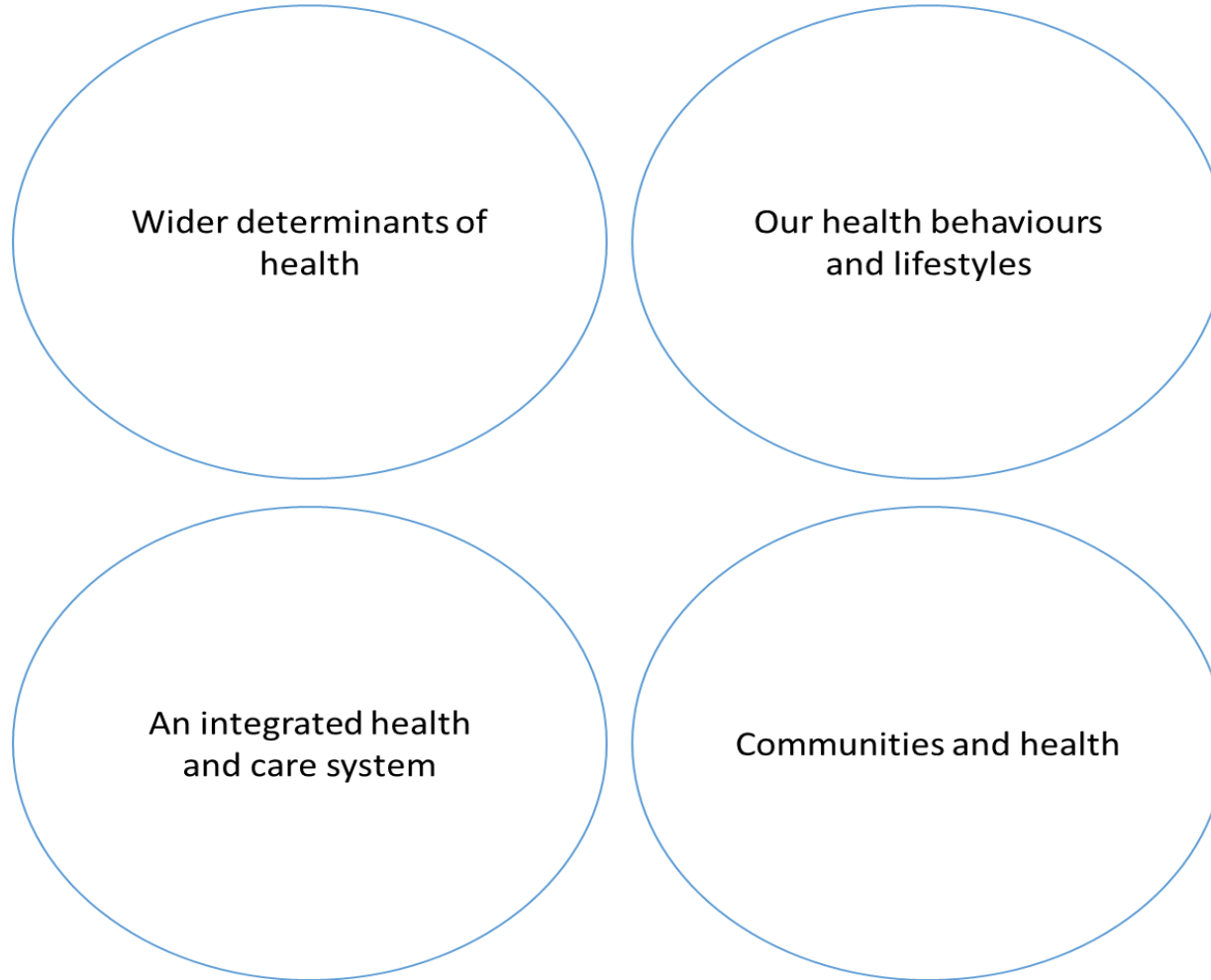
What we're doing

This work will be informed by:

- a review of key documents and public health datasets
- a series of interviews and engagement events with system leaders, organisations that support the system and those involved in delivering public health services
- a workshop to test findings
- an advisory group made up of key leaders from the public health system, NHS and beyond.

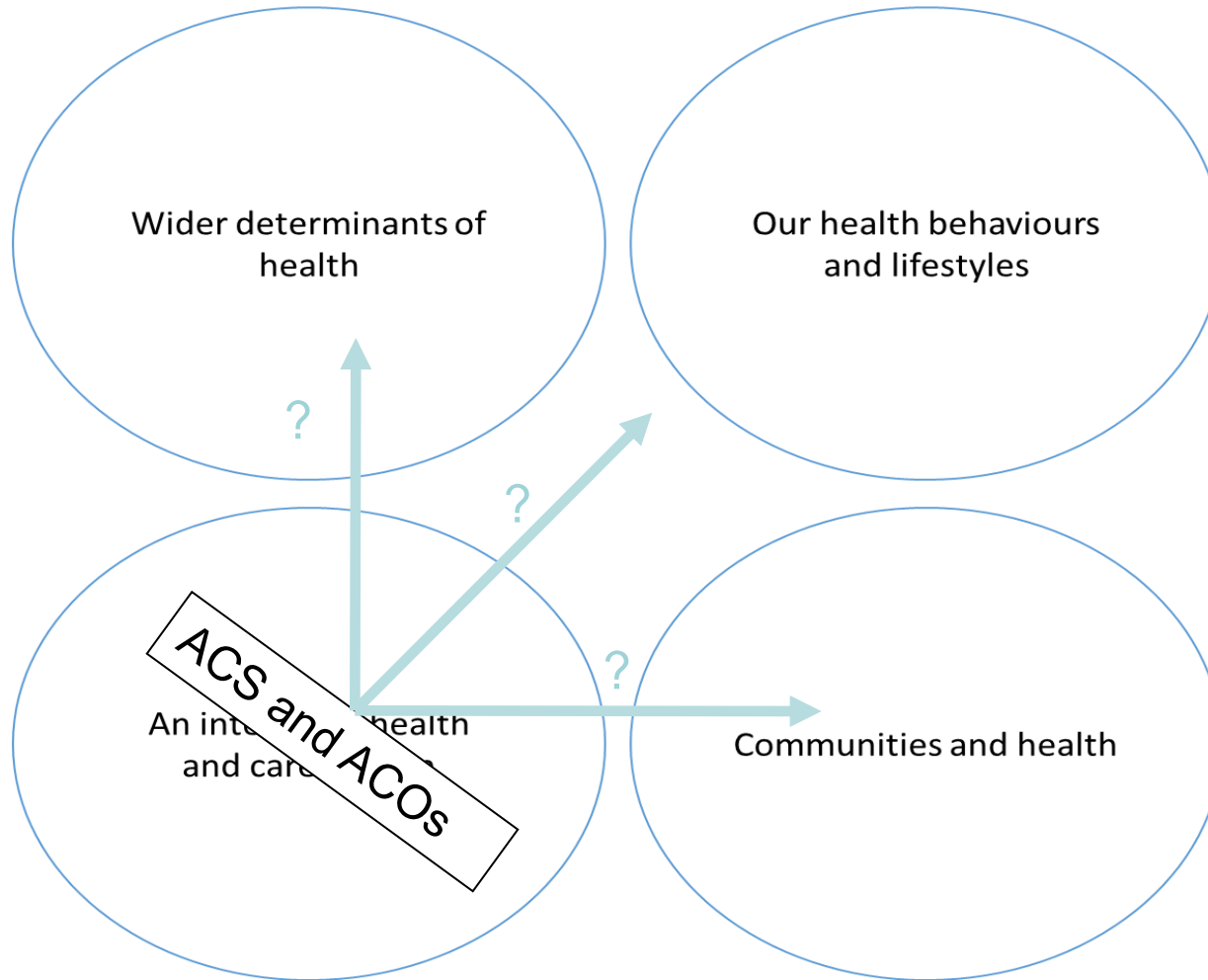
The core pillars

The four pillars of a population health system



ACS (err, ICS) how far beyond integrated care?

The four pillars of a population health system



Towards 'Accountable Health Communities'?

› **The weaknesses of ACOs (US)**

- Responsible for attributed patients, not all living within an area
- Medical interventions have overall priority, not wider social needs or causes

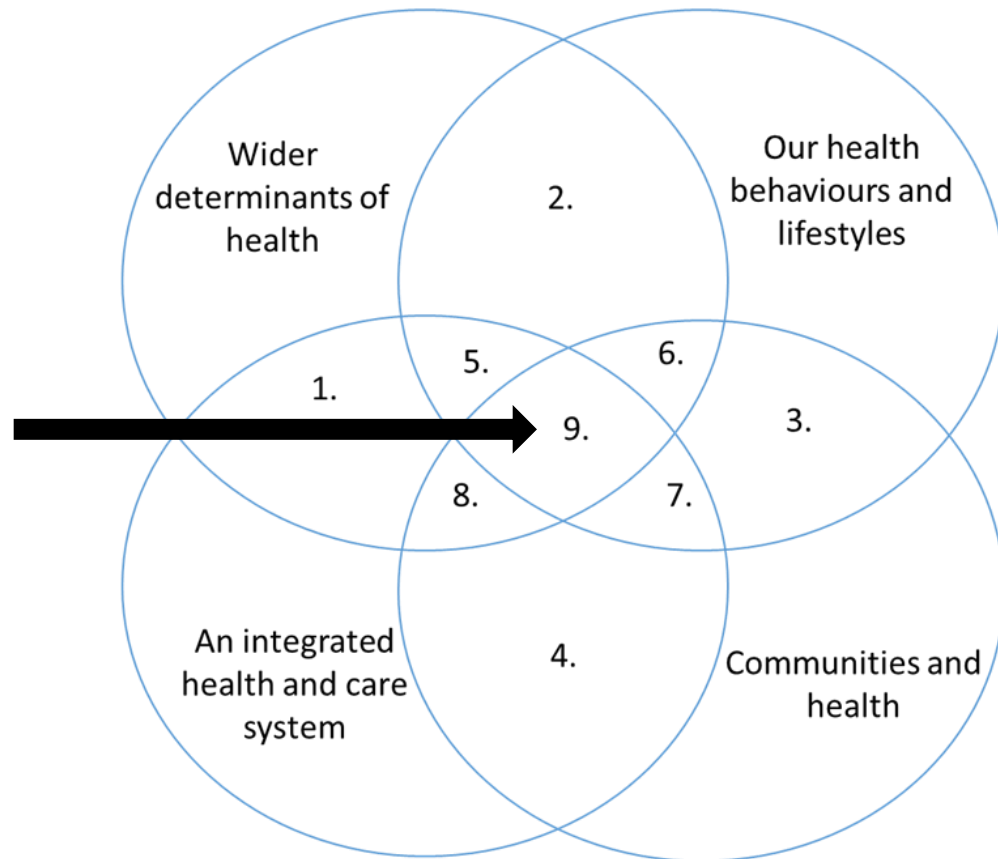
› **Accountable Health Communities (US), ACSs/STPs (here?)**

- Geographically defined populations e.g. Hennepin Health Minnesota, CCOs Oregon
- Starting to address housing, transportation and food needs
- Some Medicaid Managed Care Organisations are screening for non-medical needs e.g. San Francisco RCT of social needs (food, benefits, housing, legal) > improvements in health
- Healthcare organisations acting as 'anchor institutions' seeing themselves as contributing to the wider determinants of health in their communities

A full vision → all connections, inequality core

The four pillars of a population health system: making the connections

At the centre:
A system that understands and is able to make all the connections > with a stronger shared narrative, supported by incentives, information and leadership for population health with a focus on inequality reduction



Supporting and cementing those connections

	Immediate	2-5 years	Longer term
Local	?	?	?
Regional	?	?	?
National	?	?	?

Conclusions

Conclusion

- › Keep looking back, it helps us going forward. Learn from the past.
- › It can be done!
- › The NHS still has multiple roles to play...
 - Access to care → reducing inequality in outcomes from that care
 - Prevention → for all, not just low-hanging fruit
 - Wider determinants → massive potential, including use of SVA
 - Being a better place-based partner than it is now → a social actor
- › Place-based population health systems are the future, this is where we are going, but...
 - they have to have inequalities reduction at their heart
 - this is an ACTIVE decision, locally and nationally
 - we will be saying more about this later in the year