



The National Service Framework for Coronary Heart Disease: Lessons from the UK

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The English NHS is a large complex system

Population 51 million



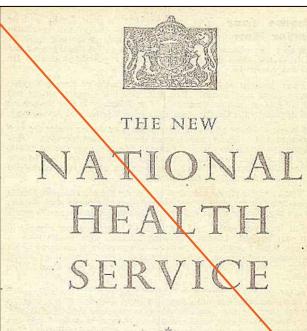
1,400,000 employees 1,000,000 patients every 24 hrs Primary & secondary care Mental health Dentists, Opticians, Pharmacies Ambulance services

10 regional Strategic Health AuthoritiesEach with a population between2.5 and 7 millionSimilar in population to Ireland,Norway, Finland & Denmark,

July 1948



"It will provide you with all medical, dental and nursing care. Everyone - rich or poor, man, woman or child – can use it. There are no charges... There are no insurance qualifications. But it is not a "charity". You are all paying for it, mainly as taxpayers, and it will relieve your money worries in time of illness."



Your new National Health Service begins on 5th July. What is it? How do you get it?

It will provide you with all medical, dental, and nursing care. Everyone—rich or poor, man, woman or child—can use it or any part of it. There are no charges, except for a few special items. There are no insurance qualifications. But it is not a "charity". You are all paying for it, mainly as taxpayers, and it will relieve your money worries in time of illness.

An inconsistent triad in healthcare

High quality healthcare

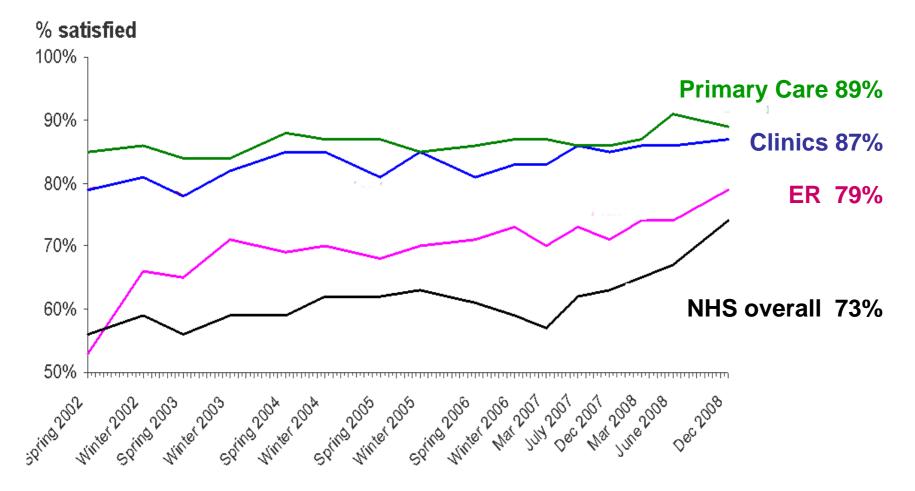
Full range of services

Easy access For everyone

UK appears to be doing well against other systems

	Australia	Canada	Germany	New Zealand	UK	USA
Overall ranking	3.5	5	2	3.5	1	6
Quality care	4	6	2.5	2.5	1	5
Right care	5	6	3	4	2	1
Safe care	4	5	1	3	2	6
Co-ordinated	3	6	4	2	1	5
Patient centered	3	6	2	1	4	5
Access	3	5	1	2	4	6
Efficiency	4	5	3	2	1	6
Equity	2	5	4	3	1	6
Long, healthy lives	1	3	2	4.5	4.5	6
Per capita cost 2004	\$2,676	\$3,165	\$3,005	\$2,083	\$2,546	\$6,102

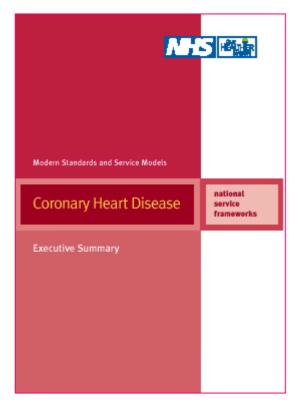
Satisfaction with the NHS is increasing



Cardiology in the 1990s in England

- Research output beginning to wane
- Low levels of uptake of effective treatments and technologies
- Only 400 cardiologists and 180 cardiac surgeons for the whole nation (51 million)
- Long waits for treatment
 - One year for a cardiologist, two for CABG
- High mortality rates from cardiovascular disease
- Increasing inequalities
 - Life expectancy
 - Access to care

National Service Framework for Coronary Heart Disease



This Framework will transform the prevention, diagnosis and treatment of coronary heart disease.

It will help professionals to give better, fairer and faster care everywhere, to everyone who needs it.

We want a service that is amongst the best in the world. Our people deserve nothing less.

Alan Milburn Secretary of State for Health

March 2000

Process

- Setting up of an independent expert group to review the evidence and make recommendations on the basis of best evidence
- Included patients and carers as well as various clinicians, public health experts and epidemiologists

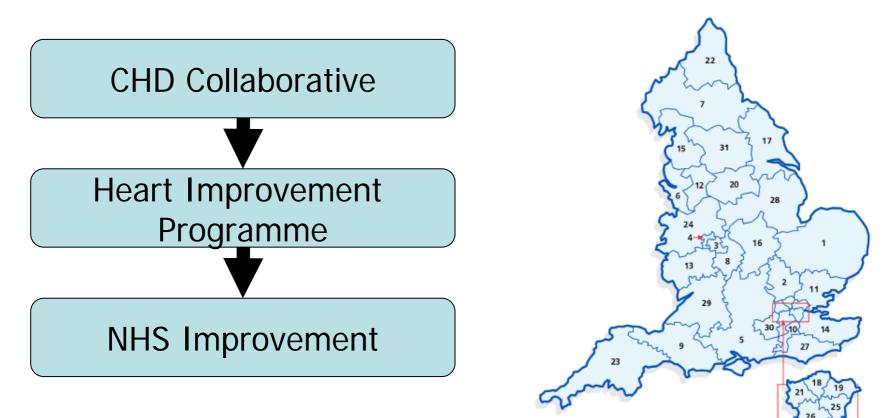
Launch in March 2000

- High level interest (Prime Minister)
- High level of clinician buy-in as well as the wider NHS
- Supported by government finance and a process of prioritisation at national level with national targets leading to:
- A very effective coalition



Modernising care

Clinical networks



Implementing improvement

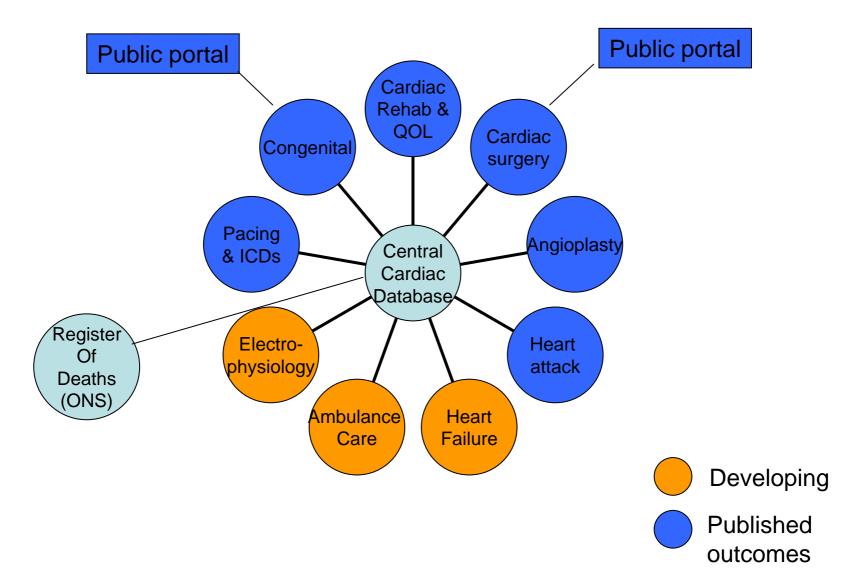
• National Service Frameworks

- High level descriptions of service
- What can the individual expect the service to deliver
- National Institute for Health and Clinical Excellence (NICE)
 - Guidelines and technology appraisals

• Systematic performance management

- With clinical targets
- Care Quality Commission
 - Independent regulator with right to inspect, review and intervene
- Measurement and public reporting of clinical outcomes
 - National clinical audit programmes

National audits and registries



Heart programme Twin track approach

- Better prevention
 - Primary
 - Secondary

- Better treatment
 - Faster
 - Better outcomes
 - More equity



States -

CIGARETTES

Brand

Smoke contains benzene, nitrosamines, formaldehyde and hydrogen cyanide

- 1. Ban on advertising
- 2. Advertising campaigns
- 3. Pack health warnings
- 4. Price increases (serial)
- 5. Smoking cessation clinics
- 6. Ban on smoking in the workplace & public places
- 7. Increasing the minimum legal age for buying cigarettes



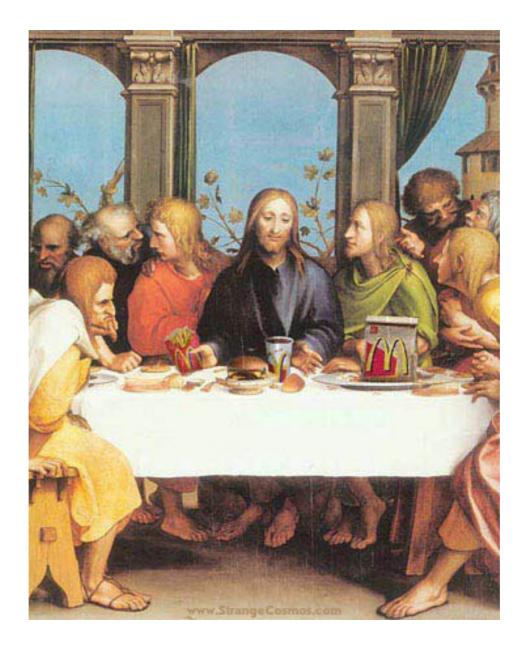
Primary prevention



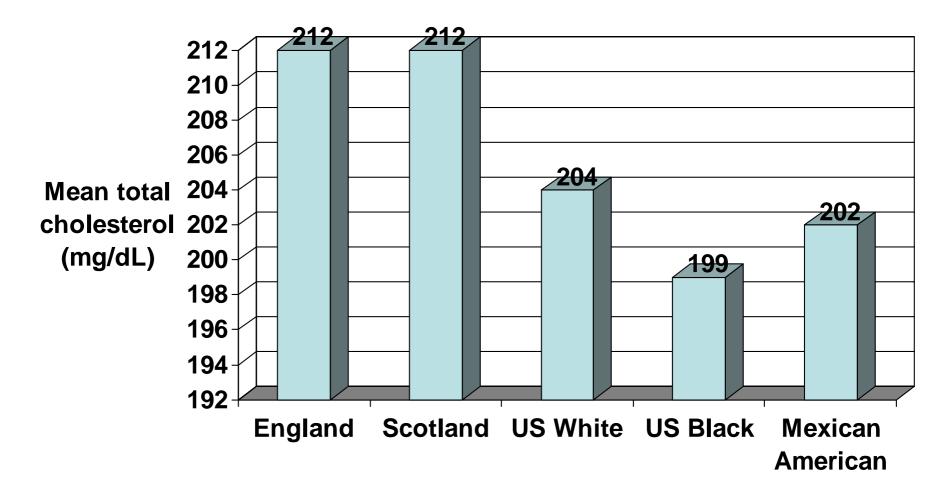
(over 2 million children in 14,000 schools)

Advertising campaign against fat

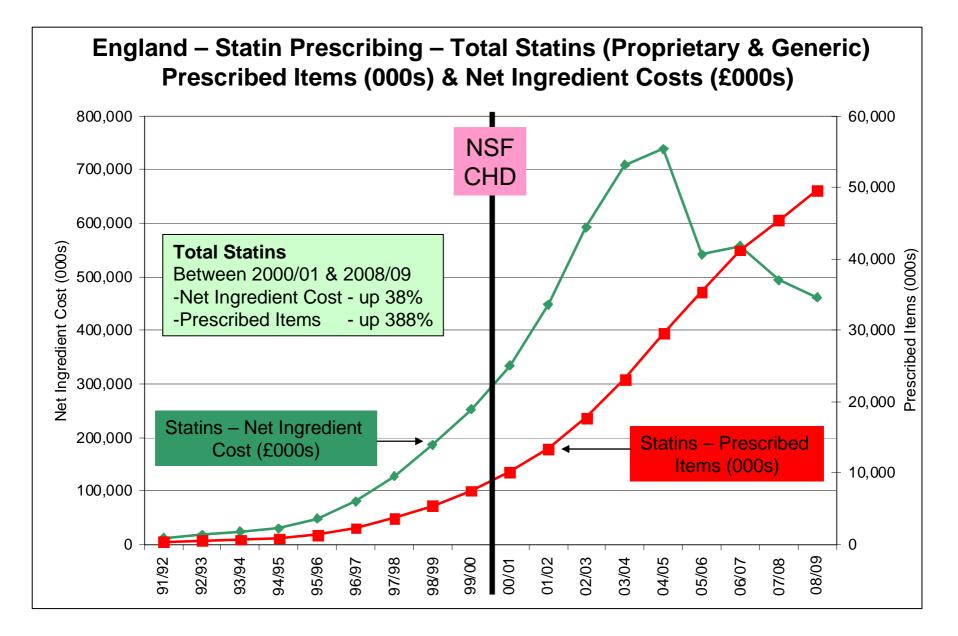




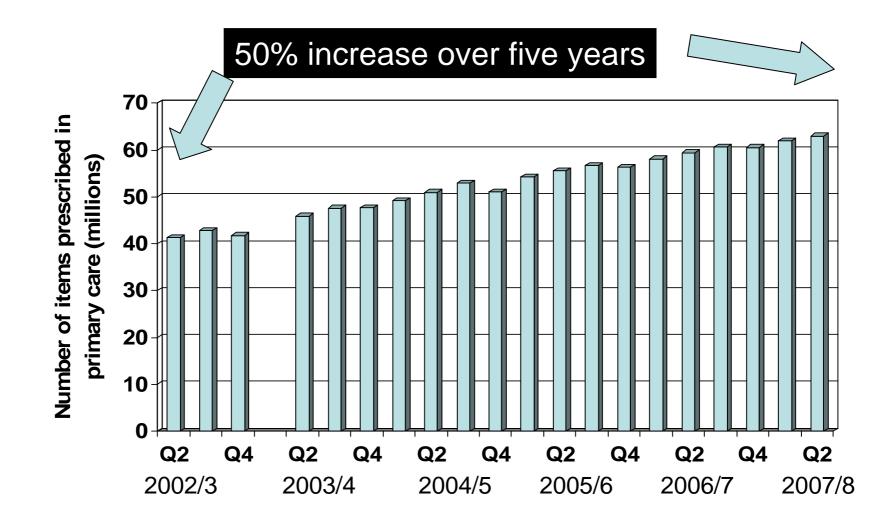
Cholesterol levels



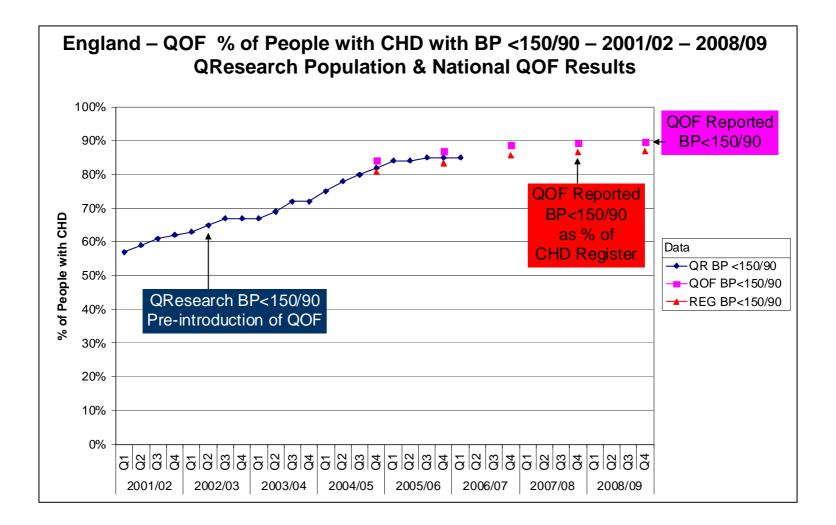
NHANES (1999-2002), Health Surveys of England and Scotland (2003)



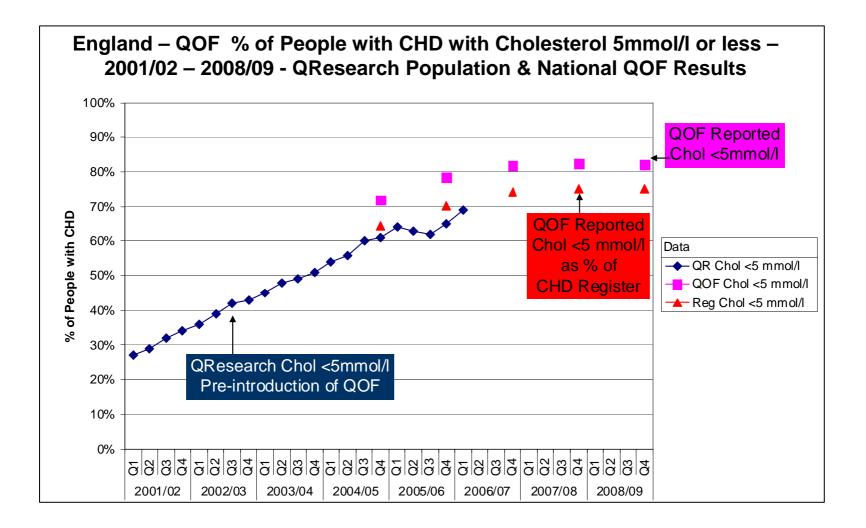
Trend in prescriptions for CV drugs



Percentage of CHD patients achieving blood pressure targets, England general practice, 2001-2008

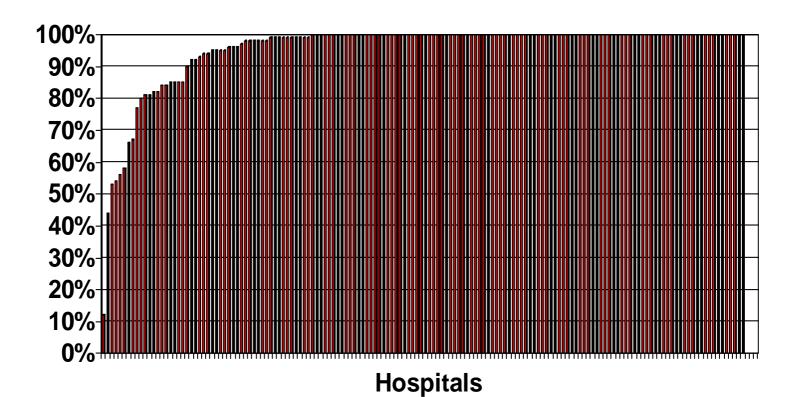


Percentage of CHD patients achieving cholesterol targets, England general practice, 2001-2008



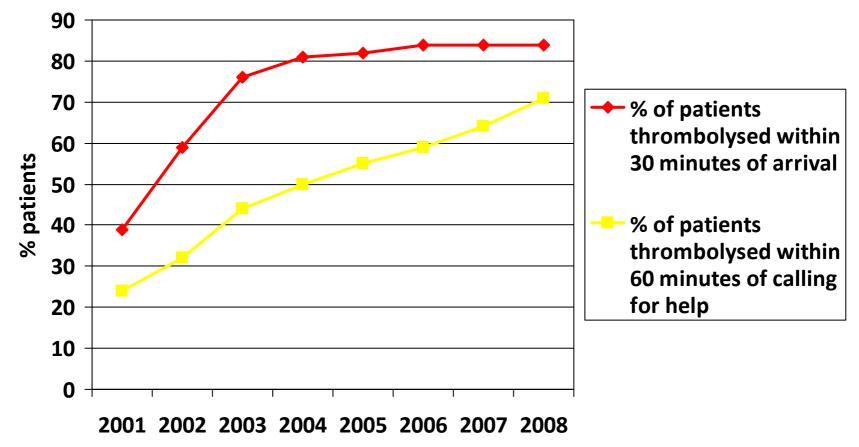
Rapid access chest pain clinics (National network – every hospital)

Percentage seen within two weeks



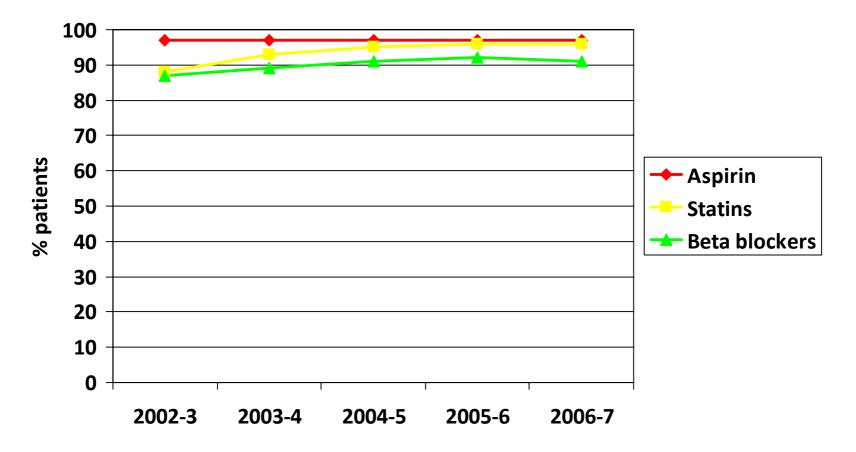
New onset, stable angina

Thrombolysis rates for acute myocardial infarction, England 2001-2008



Source: Royal College of Physicians, MINAP

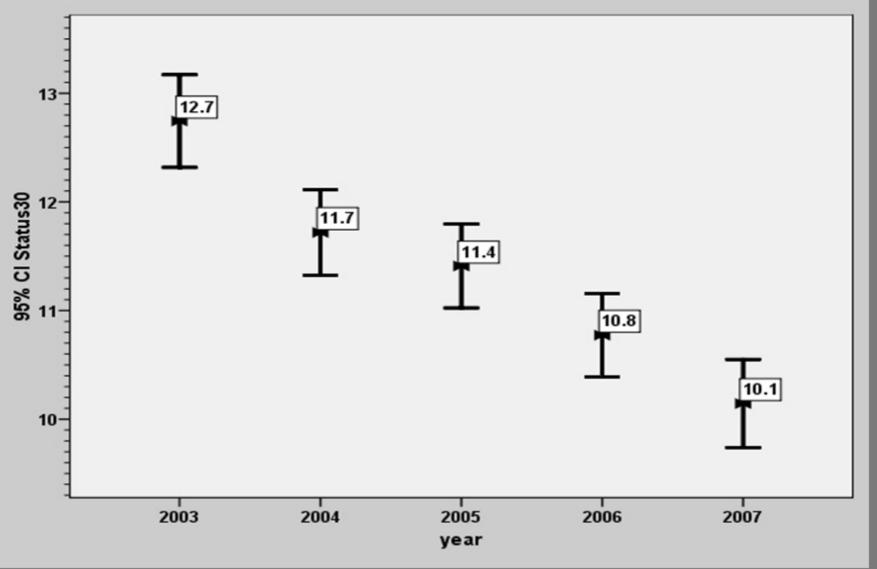
Proportion of patients discharged on secondary prevention medication, 2002 -2007



Source: Royal College of Physicians, MINAP

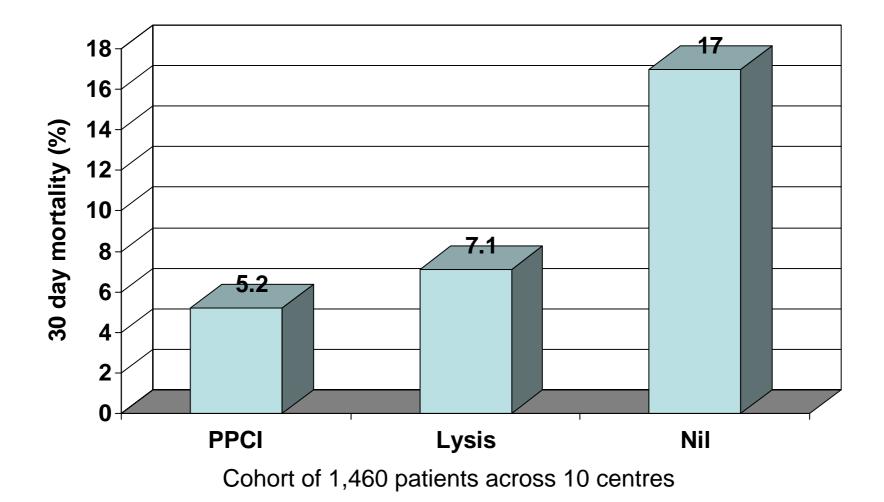
30 day mortality for STE MI England and Wales 2003 - 2007

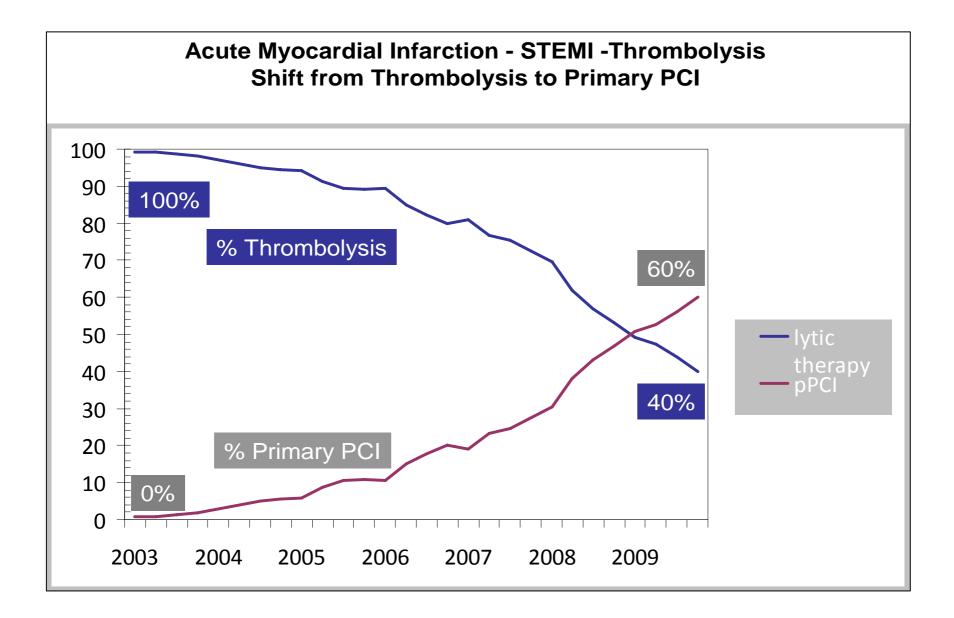
MINAP data





National Infarct Angioplasty Project





PPCI in England

• Two thirds of all STEMIs treated by PPCI

• <u>Door</u> to balloon time

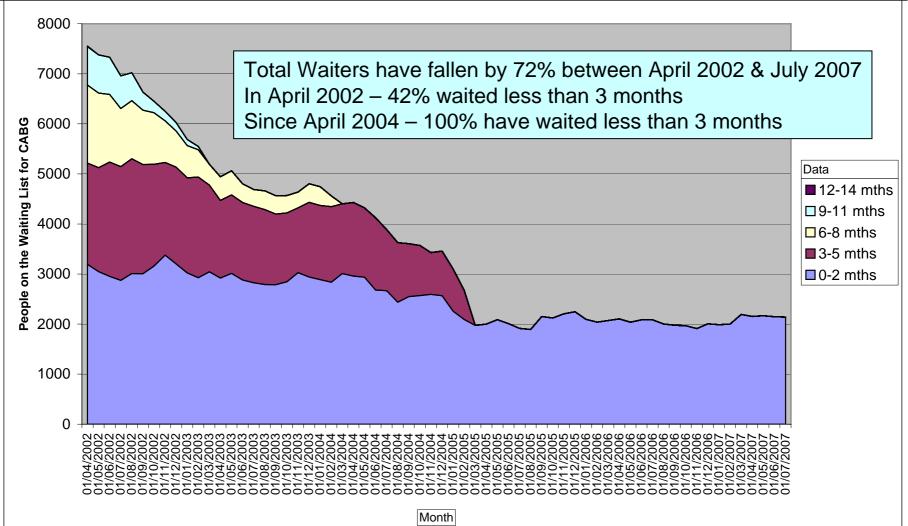
- Mean of 54 minutes
- 81% treated in less than 90 minutes

• Call to balloon times

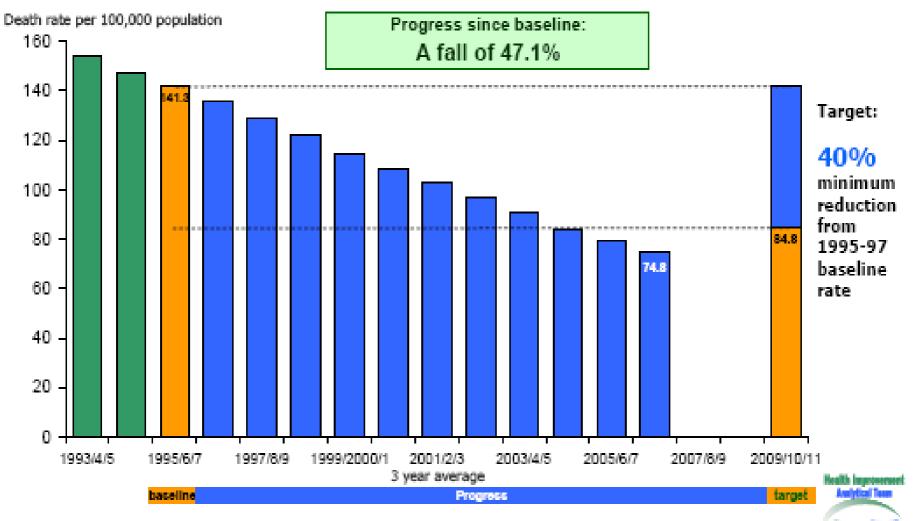
- Mean of 117 minutes
- 79% treated in less than 150 minutes











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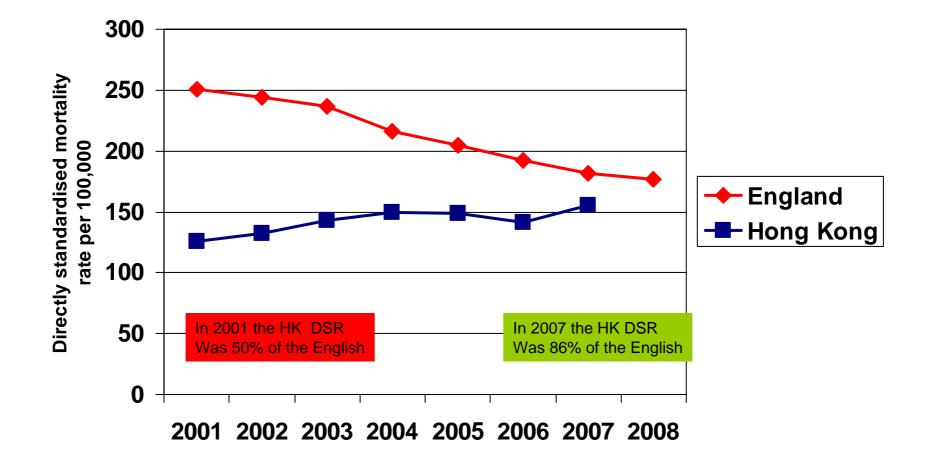
Rates are calculated using the European Standard Population to take account of differences in age structure.

ICD9 data for 1993 to 1998 and 2000 have been adjusted to be comparable with ICD10 data for 1999 and 2001 onwards.

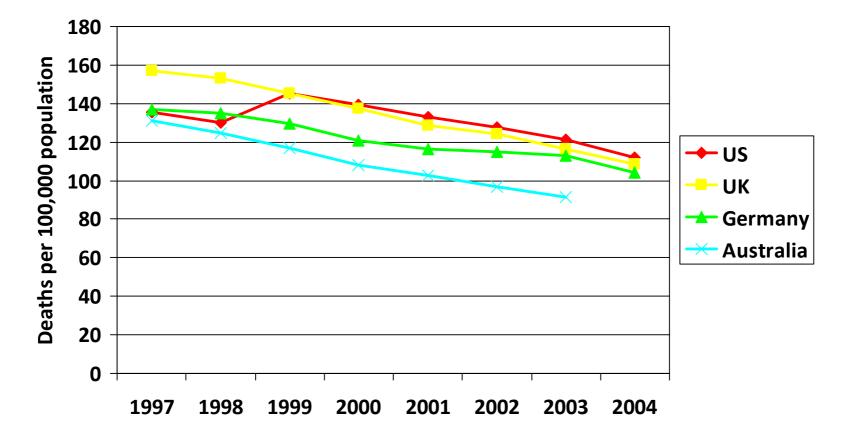
Percentage change since baseline is calculated based on unrounded rates.

Source: ONS (ICD9 390-459; ICD10 ID0-199)

Circulatory Disease Mortality - Directly Standardised rate per 100,000 England (Persons) 2001-2008, Hong Kong (Persons) 2001-2007

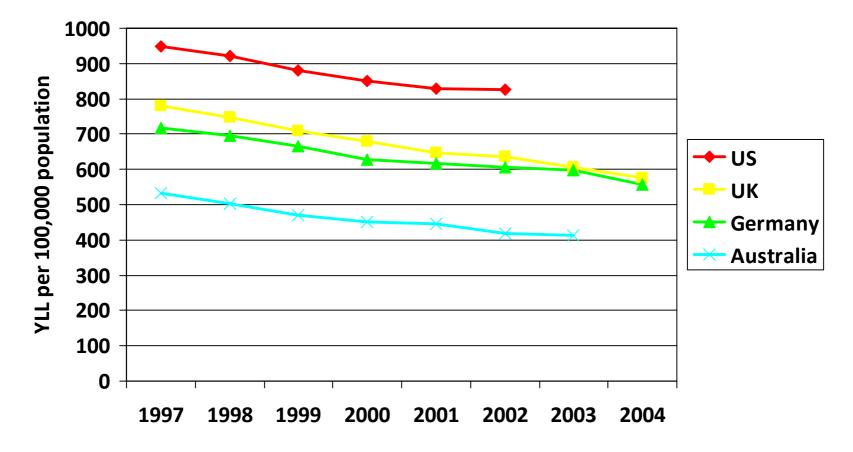


Mortality from coronary heart disease, international comparison 1997-2004



US – 17.2% decrease UK – 30.8% decrease Source OECD

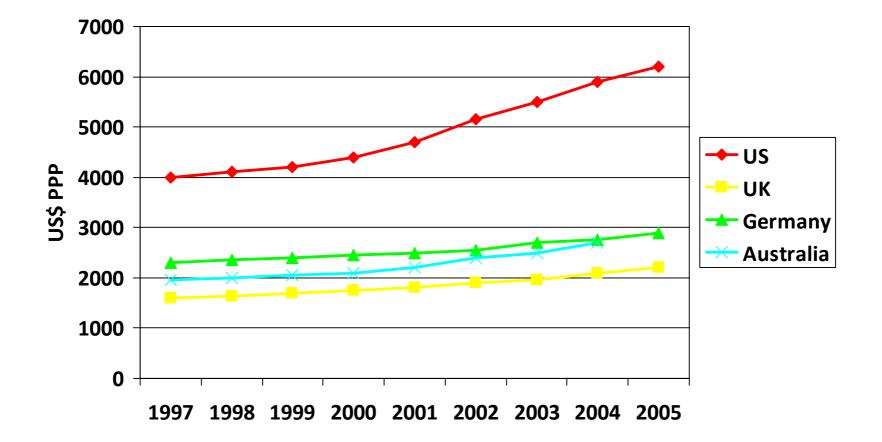
Years of life lost due to circulatory disease, international comparison 1997-2004



US – 13% decrease UK – 24% decrease

Source OECD

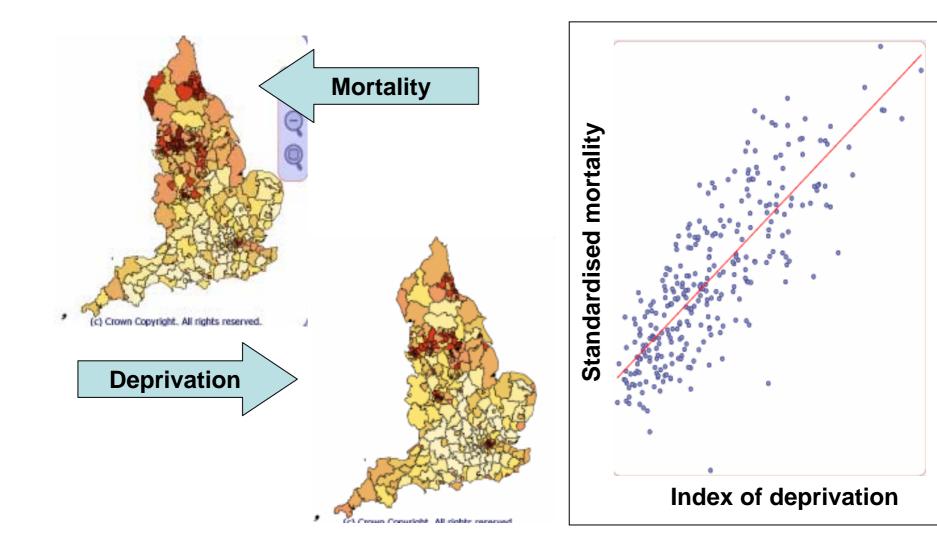
Total expenditure on health per capita, 1997-2005



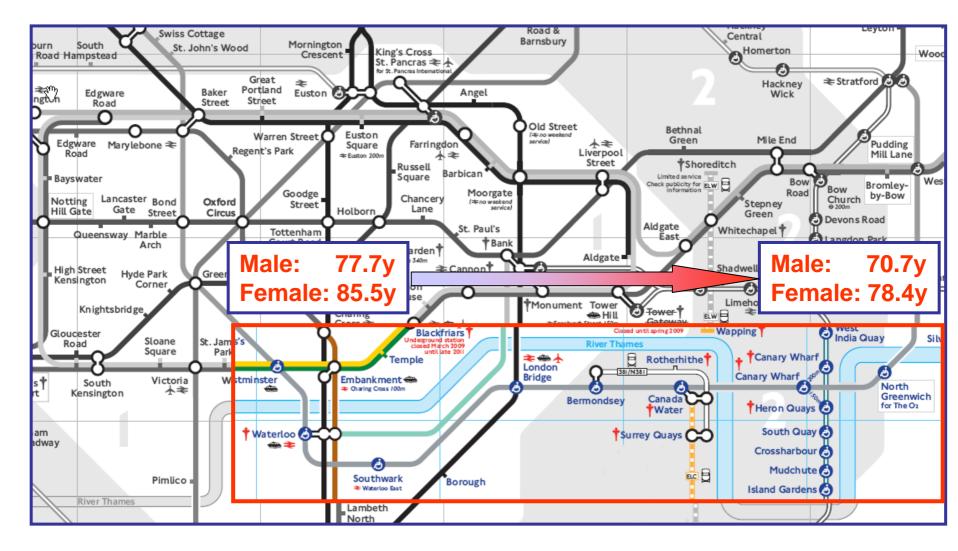
Source OECD

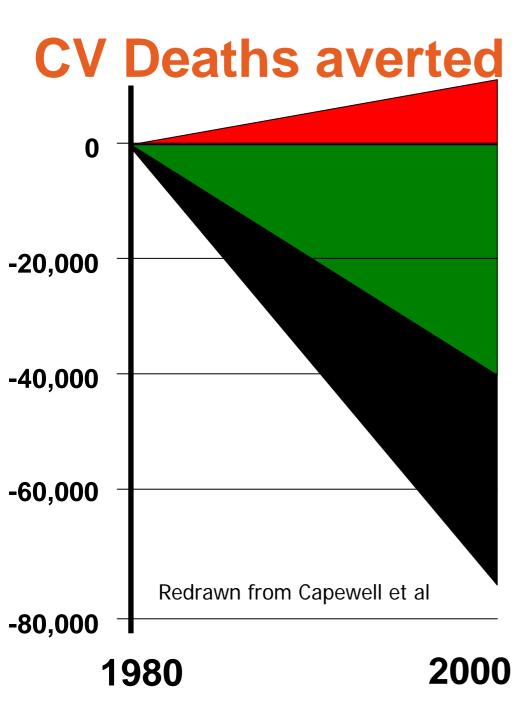
What are the challenges for the future?

Mortality from all circulatory diseases 2002- 4 according to social deprivation



Travelling east from Westminster, each tube stop represents nearly one year of life expectancy lost



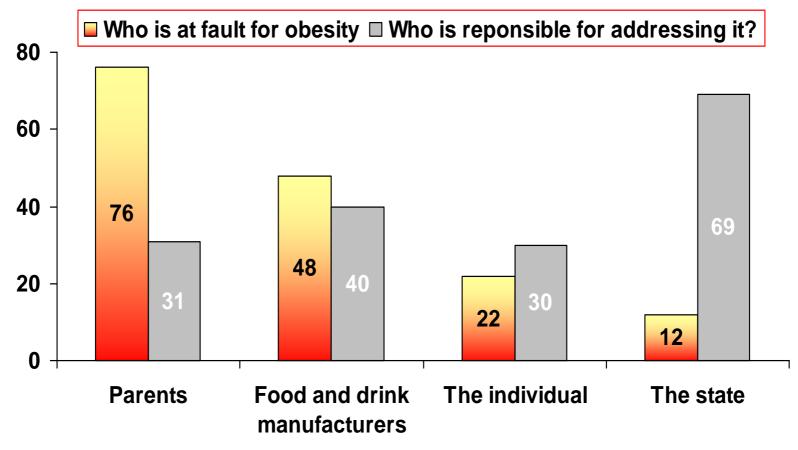


Risk factors worse	+13%
Obesity	+3.5%
Diabetes	+4.8%
Less physical activity	+4.4%

Risk factors better	-71%
Smoking	-41%
Cholesterol	-9%
Popul'n BP fall	-9%
Deprivation	-3%
Other factors	-8%

Treatments	-42%
AMI treatments	-8%
Secondary prevention	-11%
Heart failure	-12%
Angina: CABG/PCI	-4%
Angina: drugs	-5%
BP treatment	-3%

We say we take responsibility...



Henley Centre (2007)

Vascular checks

- A single, universal, integrated check for all aged 40 – 74
 - Measure risk of CV disease, diabetes and chronic kidney disease
 - Set out how to reduce risk/maintain low risk
 - Offer a standard package of prevention
- Evidence confirms this to be clinically and cost effective



Conclusion

- Our systems are different
 - Different funding mechanisms
 - Different starting positions
- Our solutions will be different
- Nationalised systems are difficult to manage because of scale
- But not impossible!

