

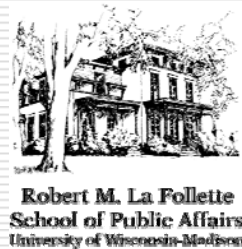
Transforming the National Health System in England: Any Lessons for the United States?

Health Care Payment Reform and Pay-for-Performance in Wisconsin: How to Promote System Transformation (and What Not to Do)

Tuesday, April 29, 2008

Monona Terrace Convention Center

Gwyn Bevan



Transforming NHS in England: Lessons for United States?

□ P4P

- Why the interest?
- Alternative: reputational damage?
- Potential common problems?

□ NHS in England

- Transformation through reputational damage
- Unintended & perverse outcomes

□ Reflections

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Why the interest in P4P?

Knights/knaves in health care?

- People don't work in health care for the money
 - Incentives necessary?
- Knights?
 - Choose health care as motivated to meet needs & do best possible job from resources available
- Knaves?
 - Choose health care for security & because failure results not in sanctions but rewards



Systematic reviews of literature on performance assessment

- Dominated by US evaluations
 - scale of activity & rigorous evaluation
- Two hypotheses of pathways for provider action
 - i.* *Change* (knights): act when information identifies scope for improvement
 - ii.* *Selection*: act on threat to market share from patients using information as consumers
- Evidence
 - i.* weak &
 - ii.* absent

Sources: Marshall et al (2000) & Fung et al (2008)

Incentives are necessary: *Reports are not self executive*

- ❑ We do need to design a system of rewards & sanctions
- ❑ Normal market does not work for *providers* of health care
- ❑ Hence attraction of P4P



Alternative: third pathway from performance assessment

- Reputation damage
 - providers respond to information that threatens to damage their public reputation
- Requires system of performance measurement that is
 - ranking system
 - published & widely disseminated,
 - easily understood by public (see which providers performing well & poorly)
 - followed up by future reports (showing whether performance improved or not)
- Examples: Quality counts & CSRS New York

Sources: Hibbard (2008), Hibbard et al. (2003, 2005)

Controlled experiment in Wisconsin

- Two summary indices of adverse events (deaths and complications):
 - broad categories surgery / nonsurgery
 - cardiac, maternity, & hip/knee
- System characteristics
 - Ranking, easily understood, followed up
- Three groups of hospitals
 - public-report: published & widely disseminated
 - private-report
 - no-report

Controlled experiment in Wisconsin: public-report set

- significantly greater efforts to improve quality than other two sets
- no significant changes in market share
- managers of hospitals shown to have been performing poorly took action, because of concerns over impacts on hospitals' reputations

Cardiac Surgery Reporting System (CSRS) New York

- Selection : market forces played no role.
 - Managed care companies did not use data way to reward better performing hospitals or drive patients toward them.
 - Nor did patients avoid high-mortality hospitals or seek out those with low mortality ...
- Change or Reputation
 - impetus to use data to improve limited to hospitals named as outliers with poor performance ... [others] largely failed to use rich performance data to find ways to lift themselves from mediocrity to excellence

Impacts of different pathways in US

	Wisconsin	New York	
Change	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Selection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Reputation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Performance measures & incentives in health care

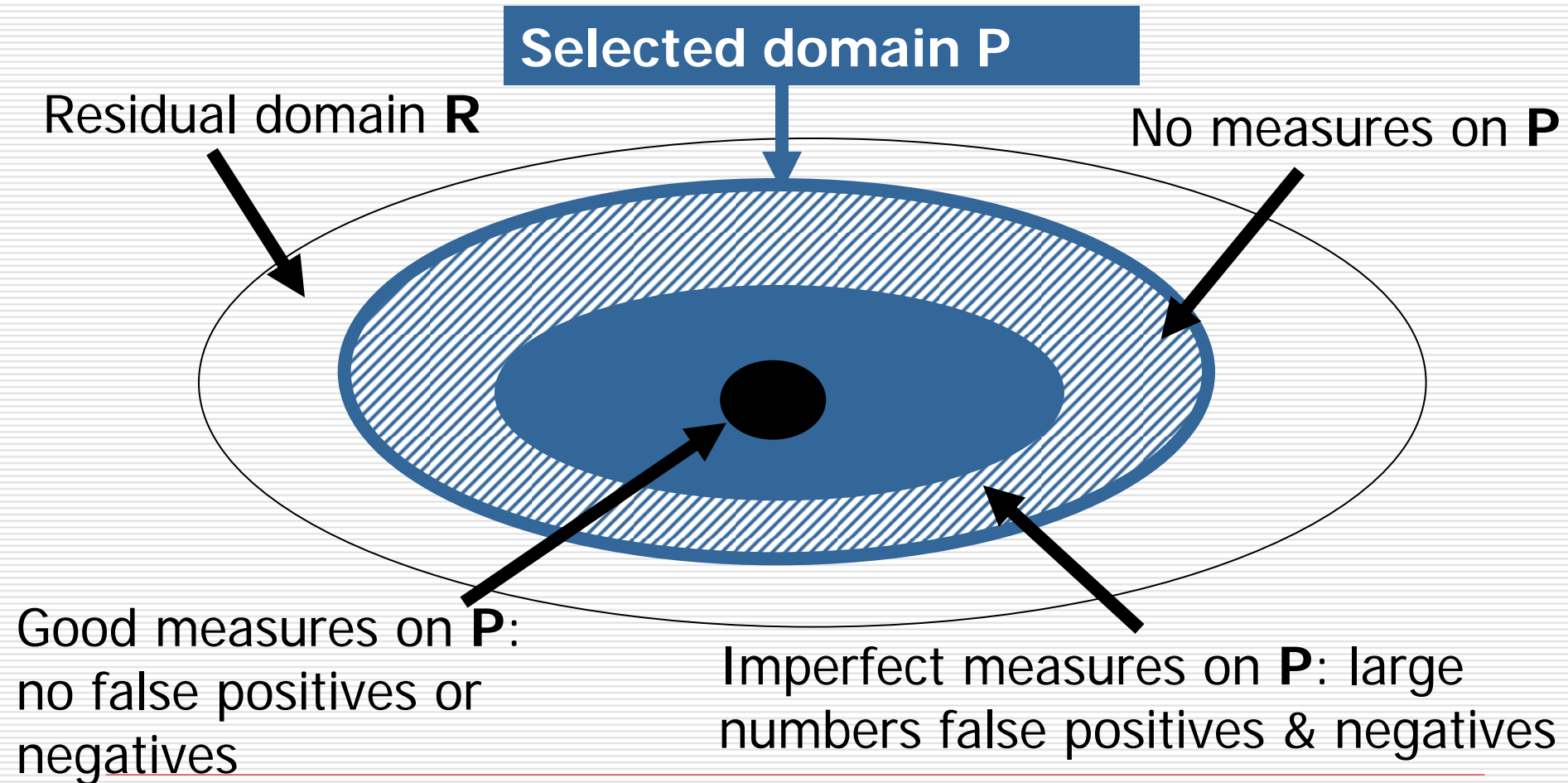
- Need incentives
- All systems imperfect
- P4P & reputational damage, common problems:

High-powered incentives

+ imperfect measures

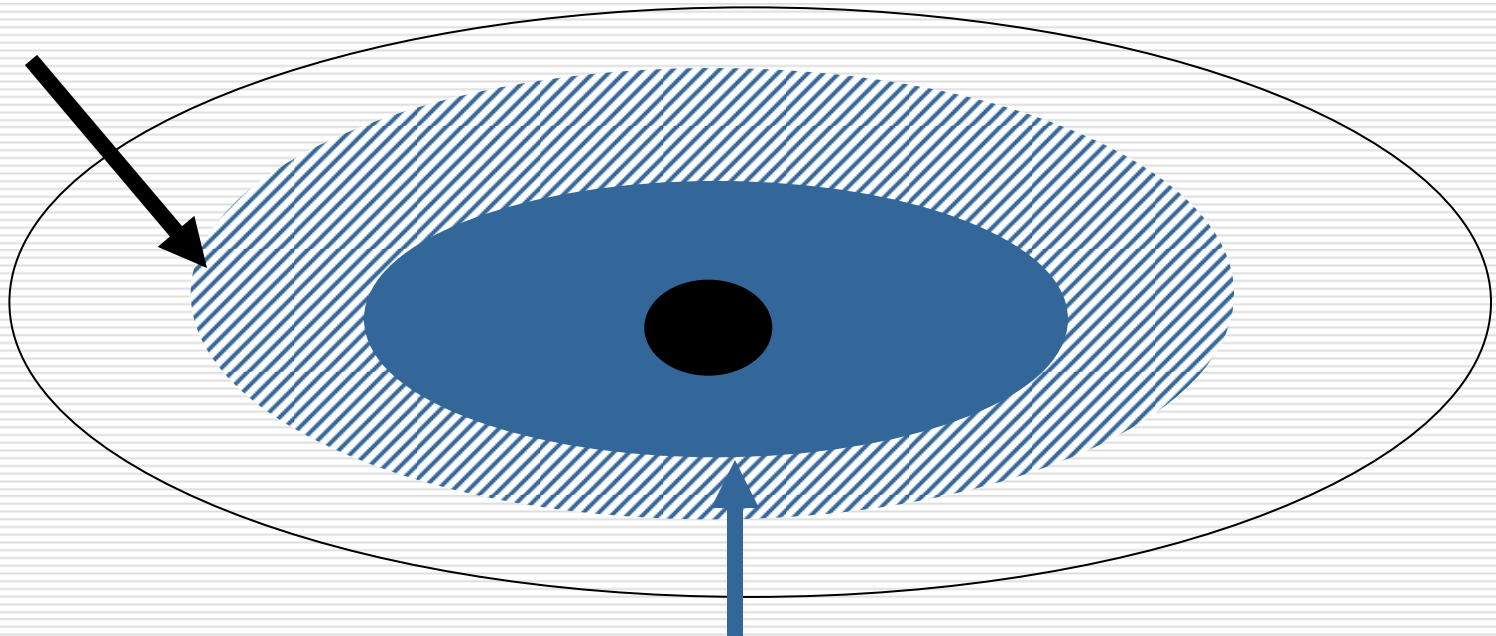
= unintended & perverse outcomes

Problems of selection & measurement



Problem of synecdoche: part measured represent whole?

Excluded domain **N**: unimportant or cannot be measured



Selected domain T: incentives apply to measures $M[T]$

Did CSRS improve outcomes for cardiac patients in New York?

□ Chassin (2002)

- 'By 1992 New York lowest risk-adjusted mortality rate of any state in nation & the most rapid rate of decline of any state with below-average mortality'

□ Dranove et al. (2003)

- 'mandatory reporting mechanisms inevitably give providers incentive to decline to treat more difficult & complicated patients'
-

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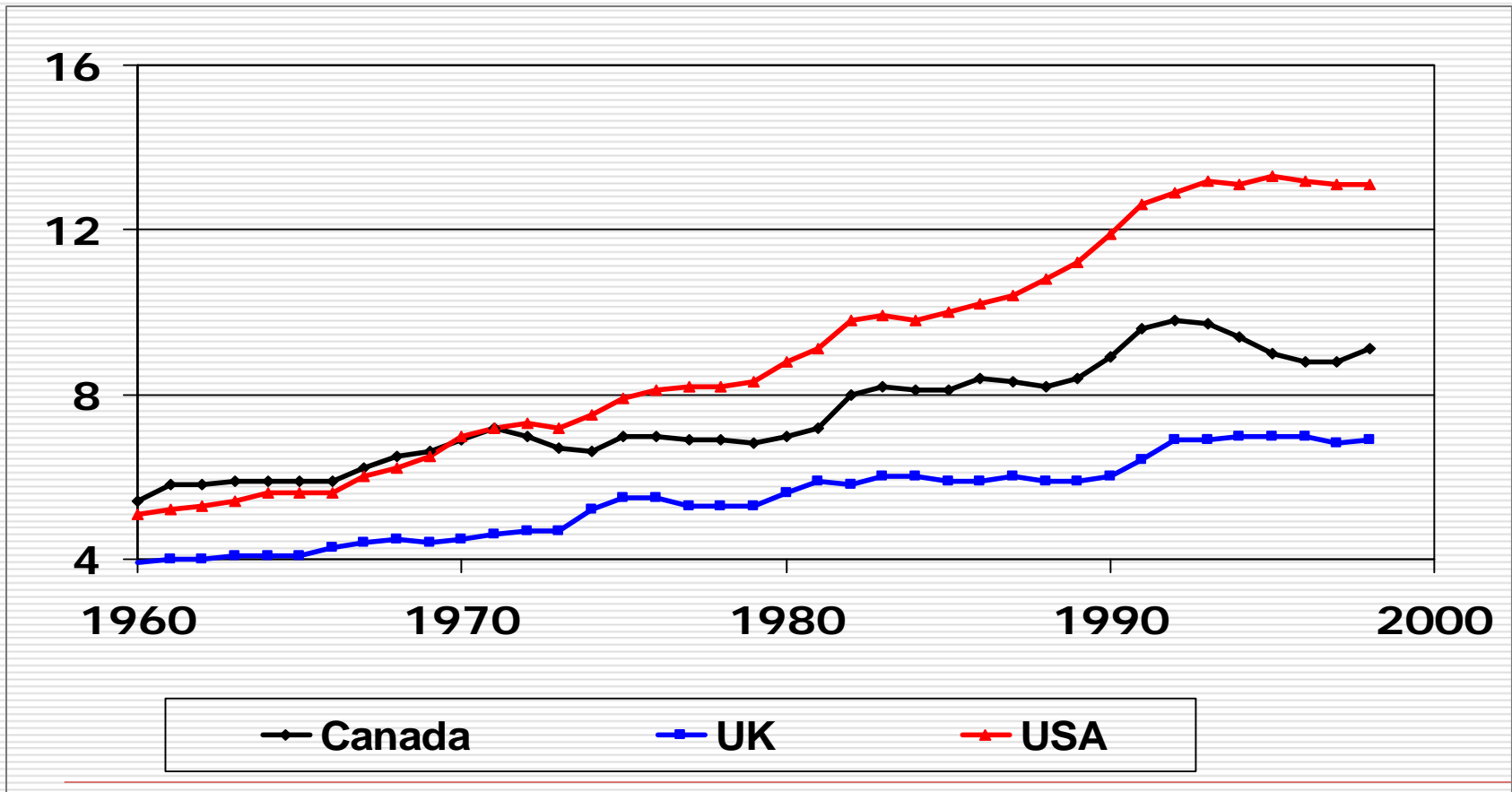
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Total health care spend (% GDP)

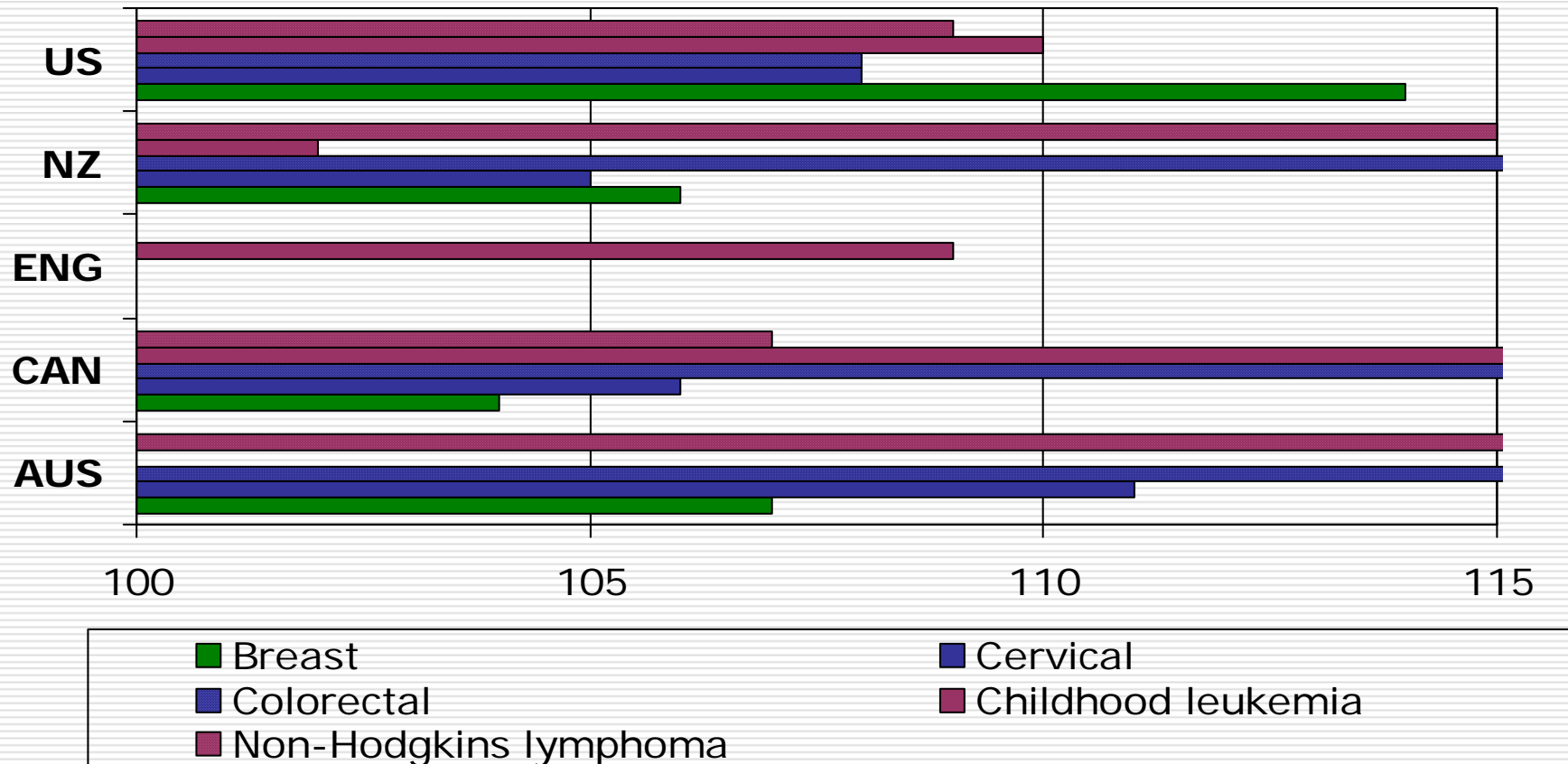


Source: OECD (2007)

NHS: Cheap, spartan, poor patient experience, long waiting times

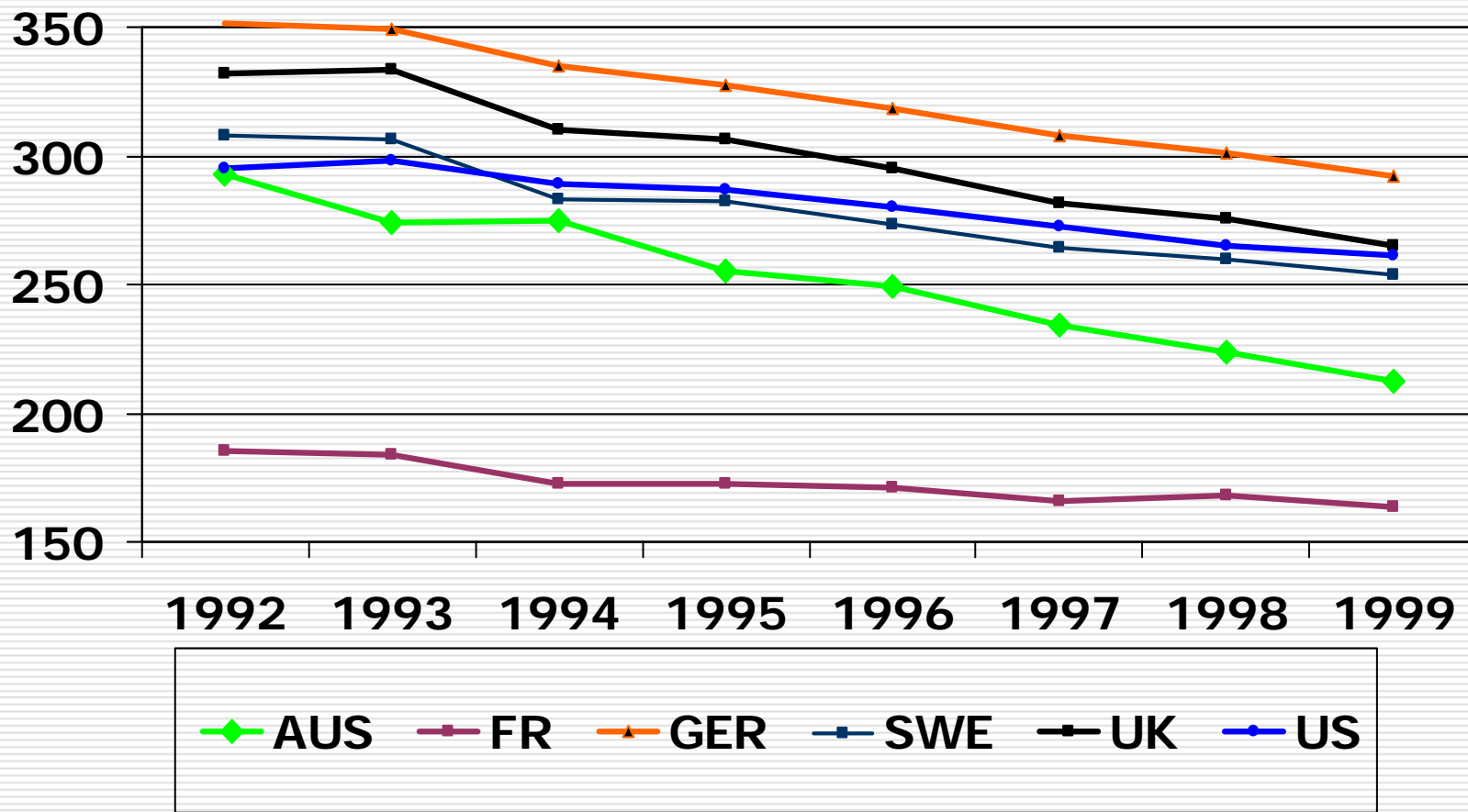
- Lord Winston (17 May 2000):
 - 87-year-old mother waited 13 hours in casualty before getting a bed in a mixed-sex ward drugs not given on time ... missed meals ... lying on the floor when morning staff came on.. caught an infection ... ulcer on her leg ... nothing unusual for NHS
 - But resources directed at good clinical outcomes from dedicated clinical staff?
-

Survival rates cancers (diagnosed 1991-94: worst = 100)



Source: Hussey et al (2004)

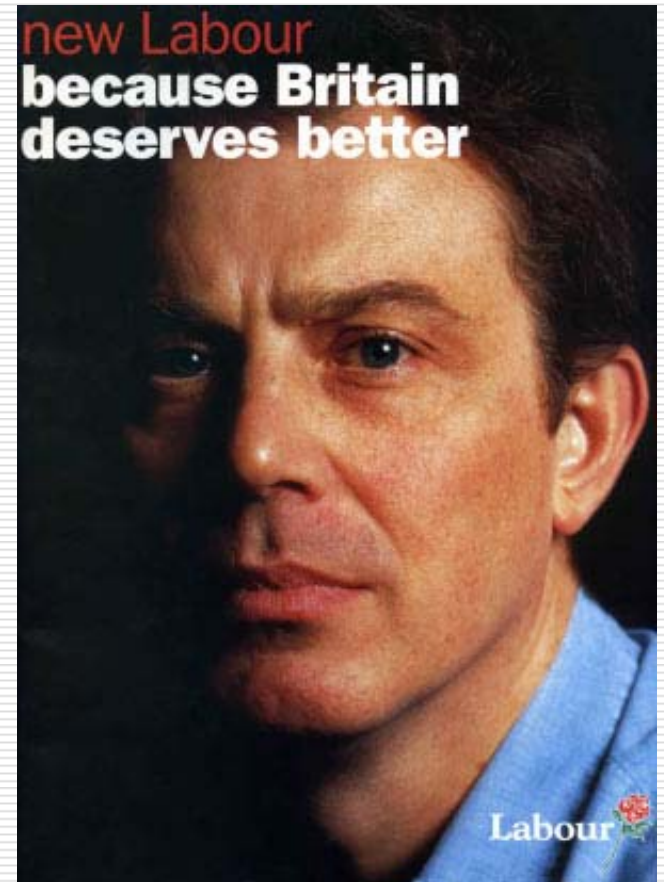
Circulatory disease (deaths / 100,000)



Source: OECD (2007)

1997 new Labour manifesto

- We will save the NHS
 - End the Tory internal market
 - End waiting for cancer surgery
- Five manifesto pledges
 - NHS: 100,000 people off waiting lists



Lord Winston's verdict on NHS under Labour (17 January 2000)

- ❑ NHS "much the worst in Europe"
- ❑ want NHS steadily deteriorate rationed & inferior for heart disease & cancer?
- ❑ gave categorical promises would abolish internal market ... not done that

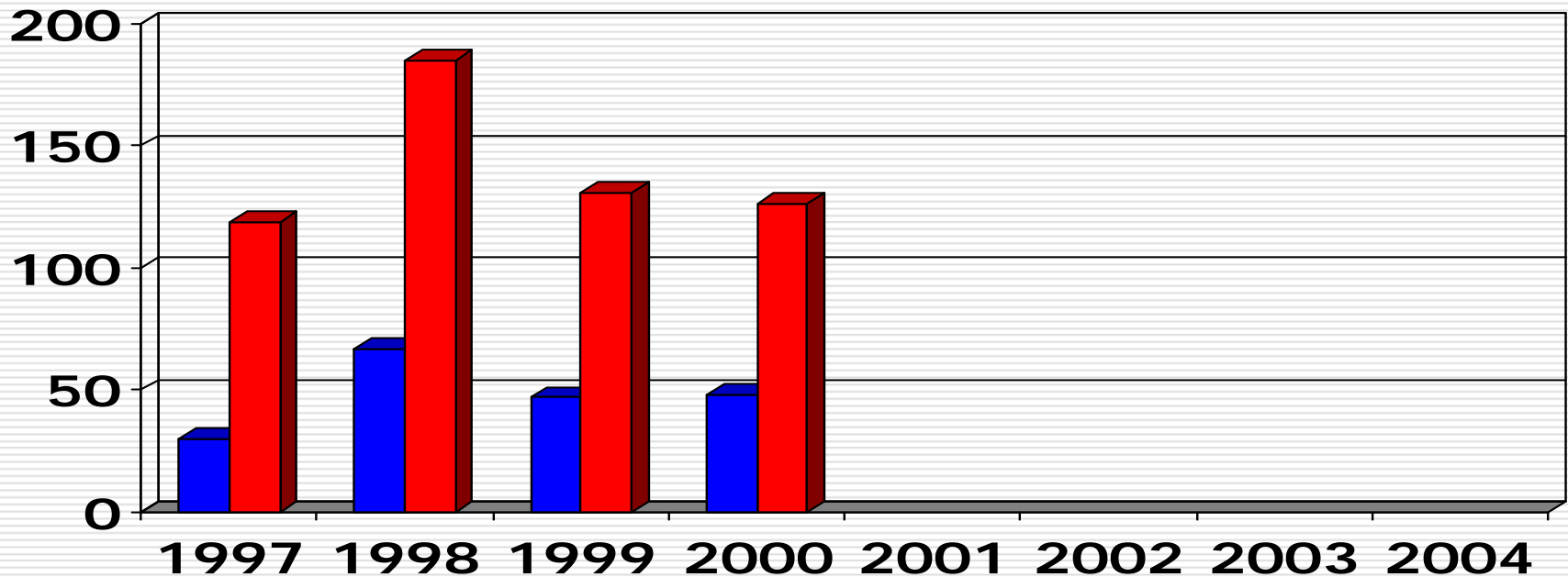
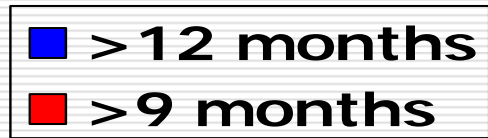


medical expert & Labour peer

Source: *The New Statesman*, interview, 17 January 2000

Failed manifesto promise on waiting times for elective admission (England)

Numbers waiting
elective admissions
(‘000s)



Source: Chief Executive's Report to the NHS – Statistical Supplement (2004)

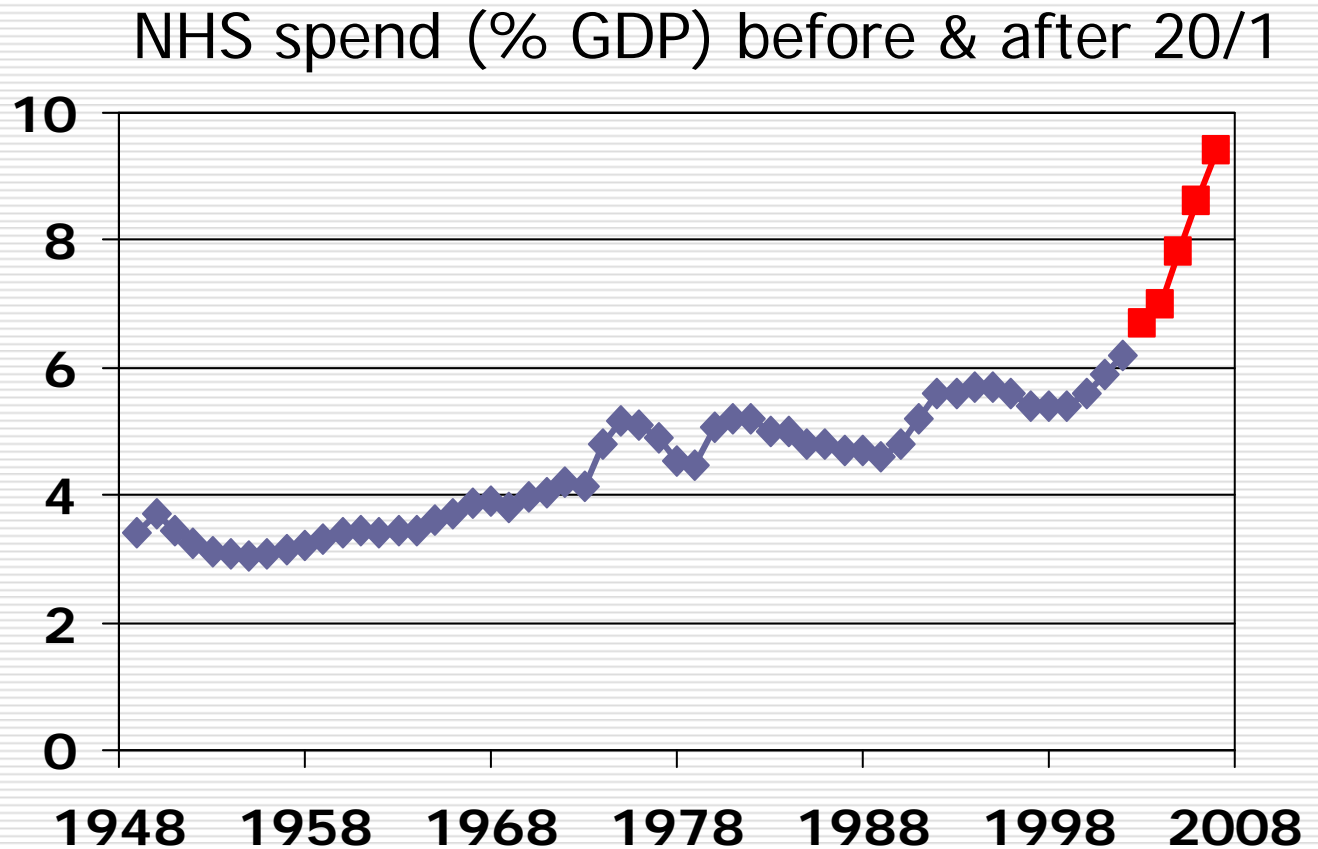
Response: 20 January 2000

Evidence-based policy making?



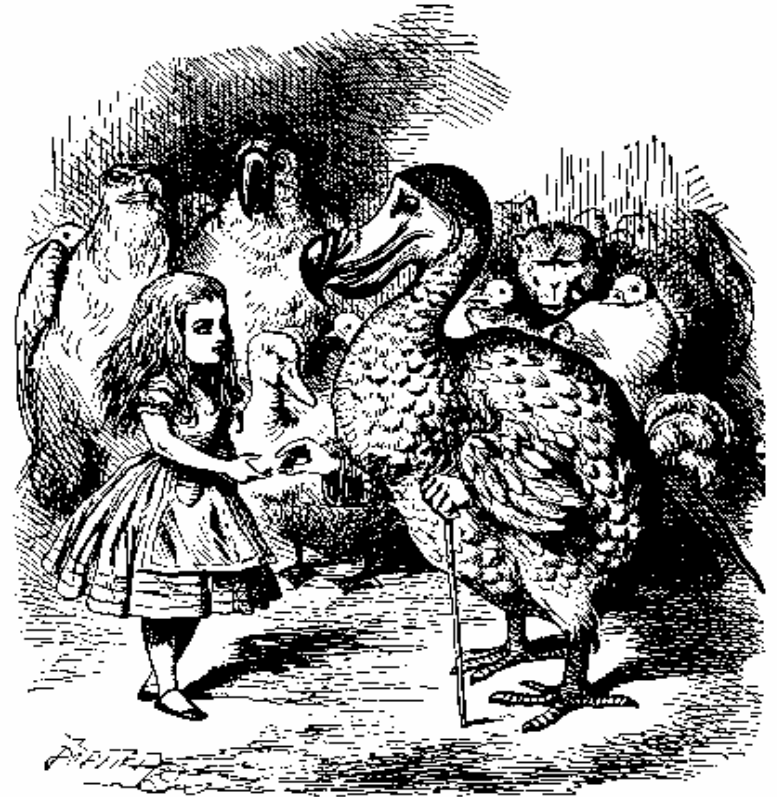
Most expensive breakfast in British history. Tony Blair: *We've decided to raise NHS spend to European average*

Response to crisis in practice: process & outcome



Failed systems

- ❑ No incentives
- ❑ Reward poor performers
- ❑ Markets



caucus race: everyone
must have prizes

Performance assessment by star ratings: separating knights from knaves



Zero

9 Key targets



'balanced scorecard'

- patient surveys
- clinical outcomes
- capability & capacity



Natural experiment: performance assessment UK countries

	England	Scotland, Wales & Northern Ireland
ranking system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
published & widely disseminated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
easily understood by public	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
future reports	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Reputational damage by star rating: 'naming & shaming'

- Brutally redefined success & failure through national & local publicity: huge pressure on NHS to deliver
 - Mannion et al (2005):
 - hospital staff highly engaged with information
 - effective communication & dissemination strategy
 - comprehensibility & appeal of such a stark & simple way of presenting data
-

Zero-rating: Traumatizing impact on CEO, Board & staff

- 'devastating ...hit right down to the workforce – whereas bad reports usually hit senior management upwards ...nurses demanding changing rooms .. because being accosted in streets



2001: the dirty dozen

Zero-rated 2004

*You make us sick!
Scandal of Bosses
running Britain's worst
hospitals*

*'squalid wards, long waiting times for treatment
& rock-bottom staff morale'*

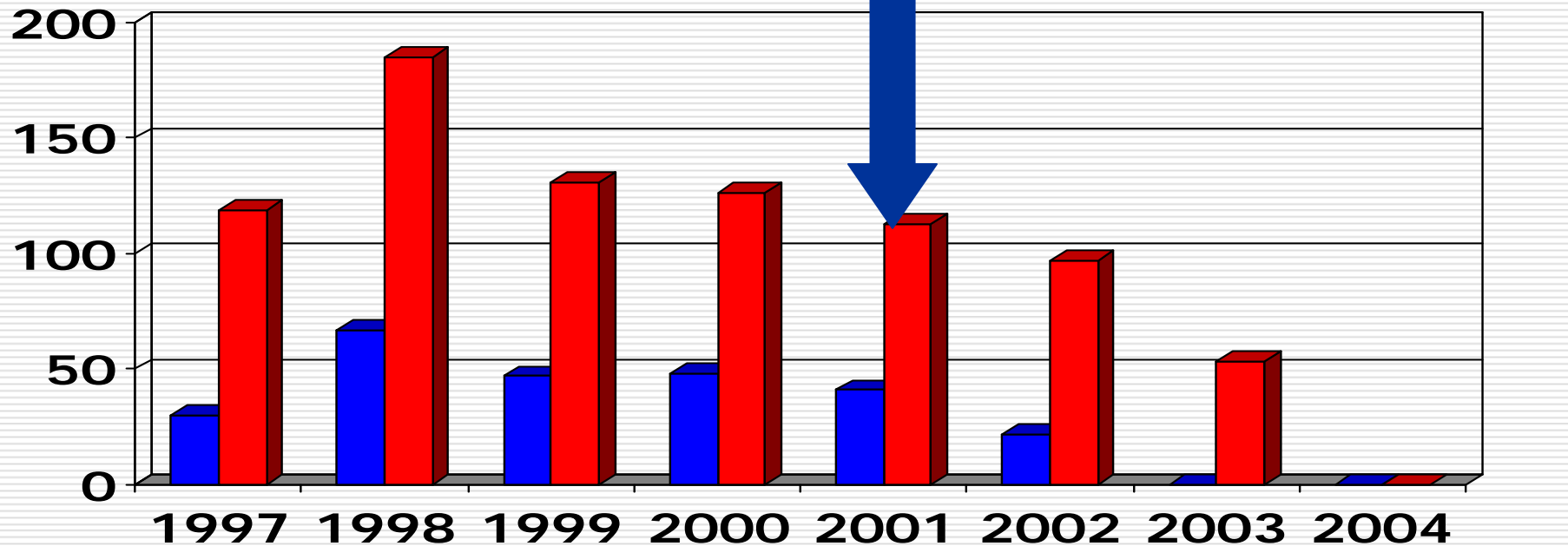
if working in private sector 'sacked long ago'

Other effects

- one-star
 - working for a third class organisation
 - recruitment
 - three-star: attractive & good organisation
 - Zero / one star: reluctant to join organisation publicly classified as under-performing
 - 'falling star'
 - shock to CEO & palpable effect on staff
-

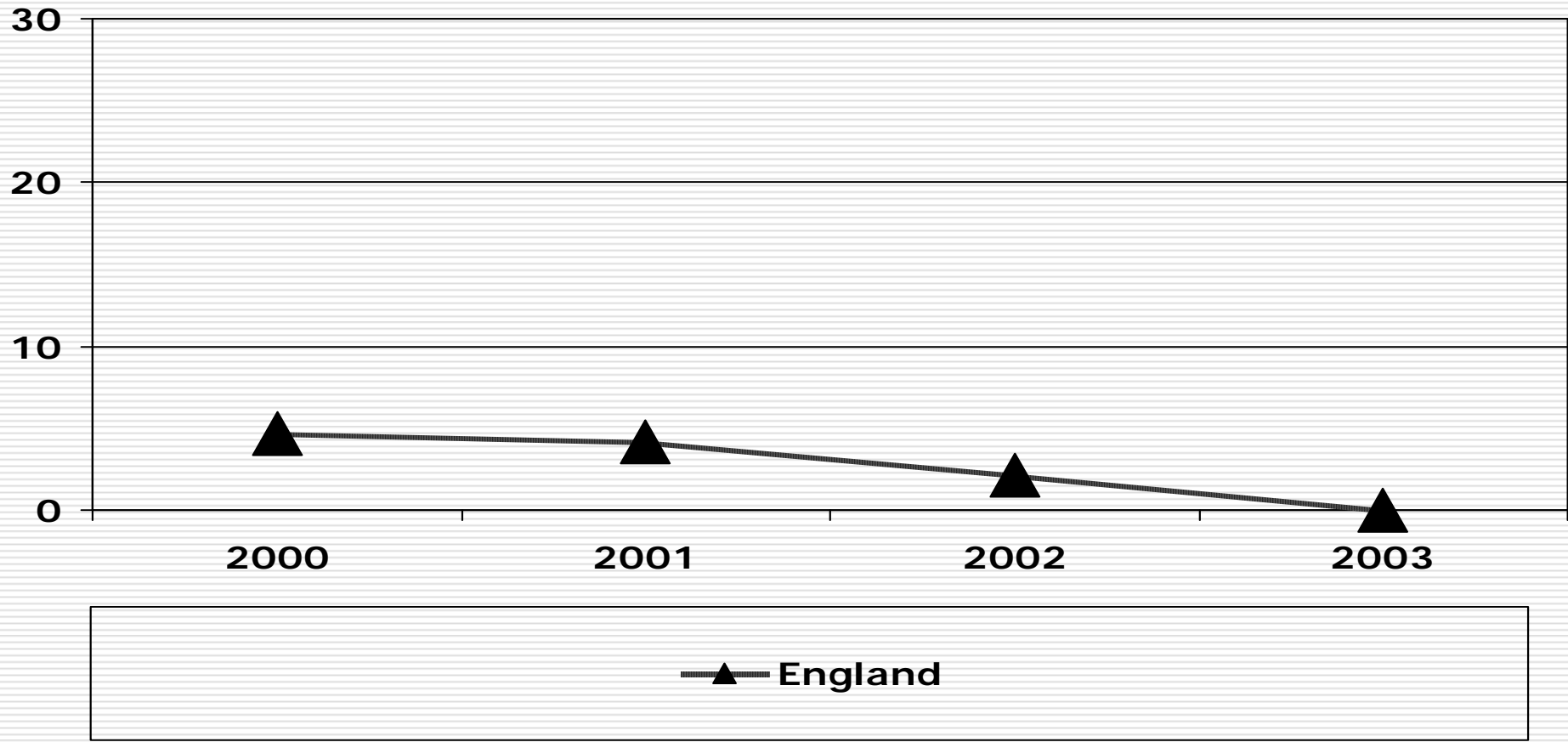
Waiting times elective admission before & after star ratings (England)

Numbers waiting
elective admissions
(‘000s)



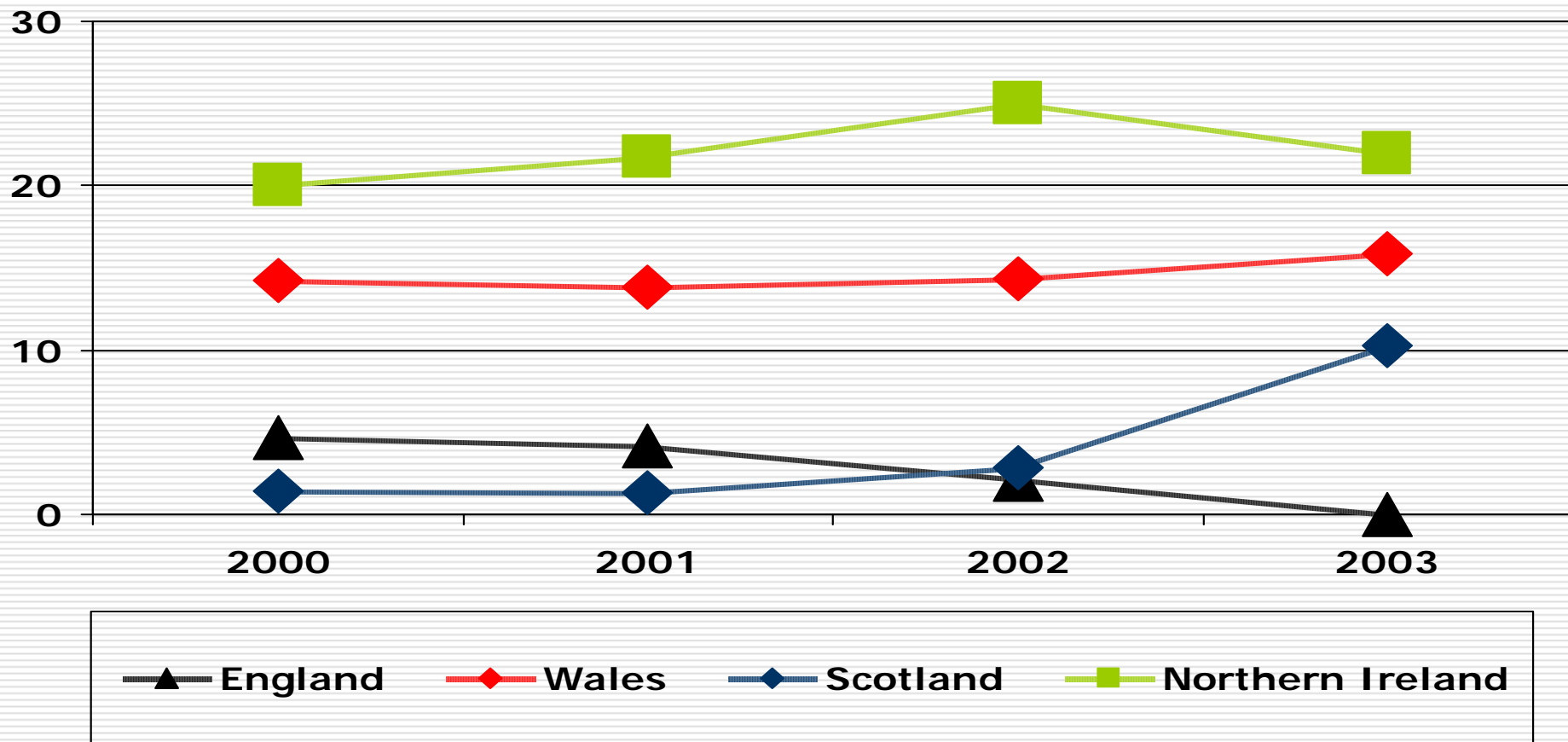
Source: Chief Executive's Report to the NHS – Statistical Supplement (2004)

Natural experiment: % patients waiting > 12 months hospital admission



Source: <http://www.statistics.gov.uk> National Health Service hospital waiting lists by region: Regional Trends 35, 36, 37 & 38

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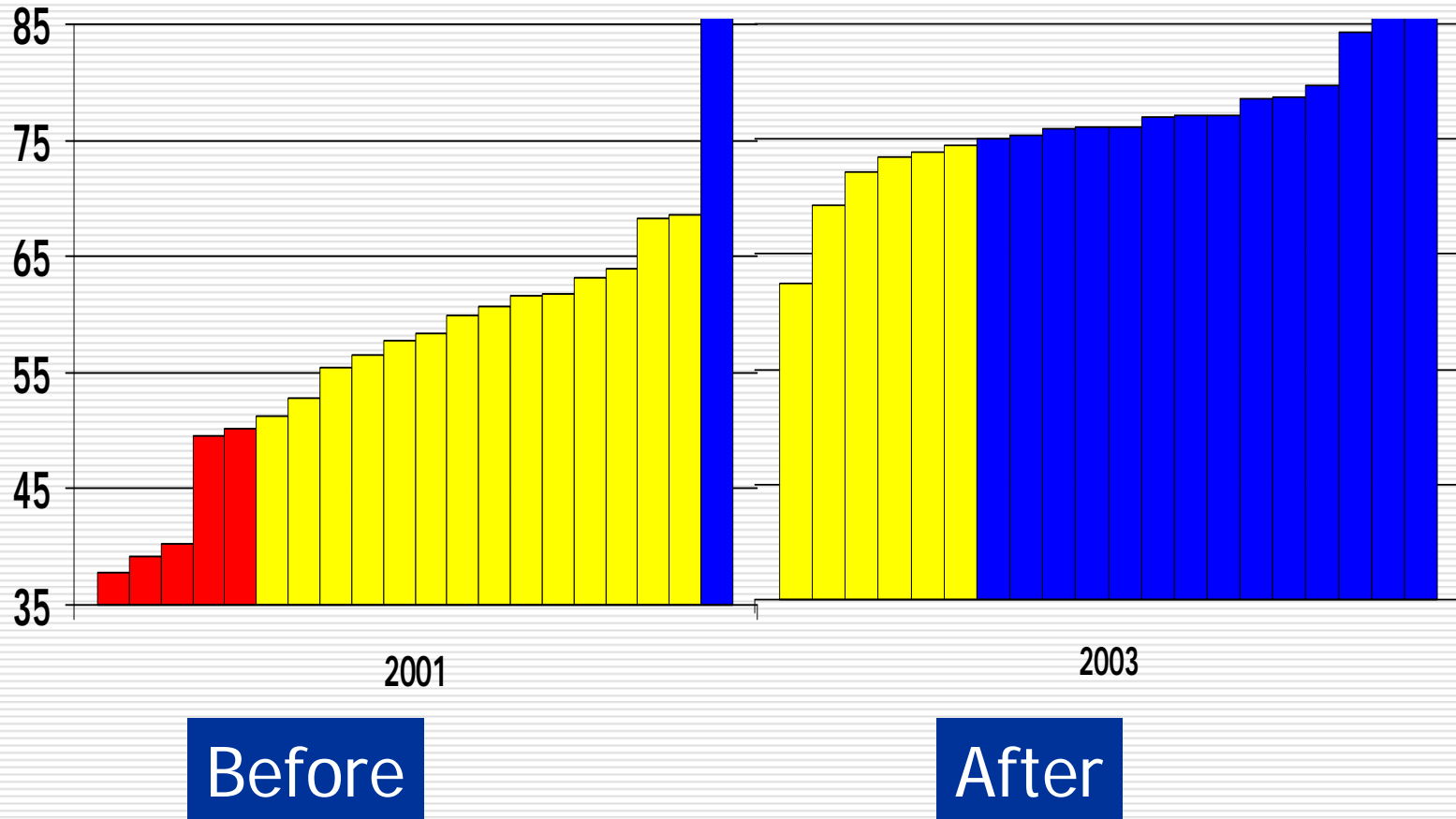
Waiting time targets (December 2005)

	England* (weeks)	Wales (weeks)	Scotland (weeks)
First outpatient appointment	13	78	26
Inpatient/day case treatment	26	78	26

* 2008 target: 18 weeks from GP referral to admission

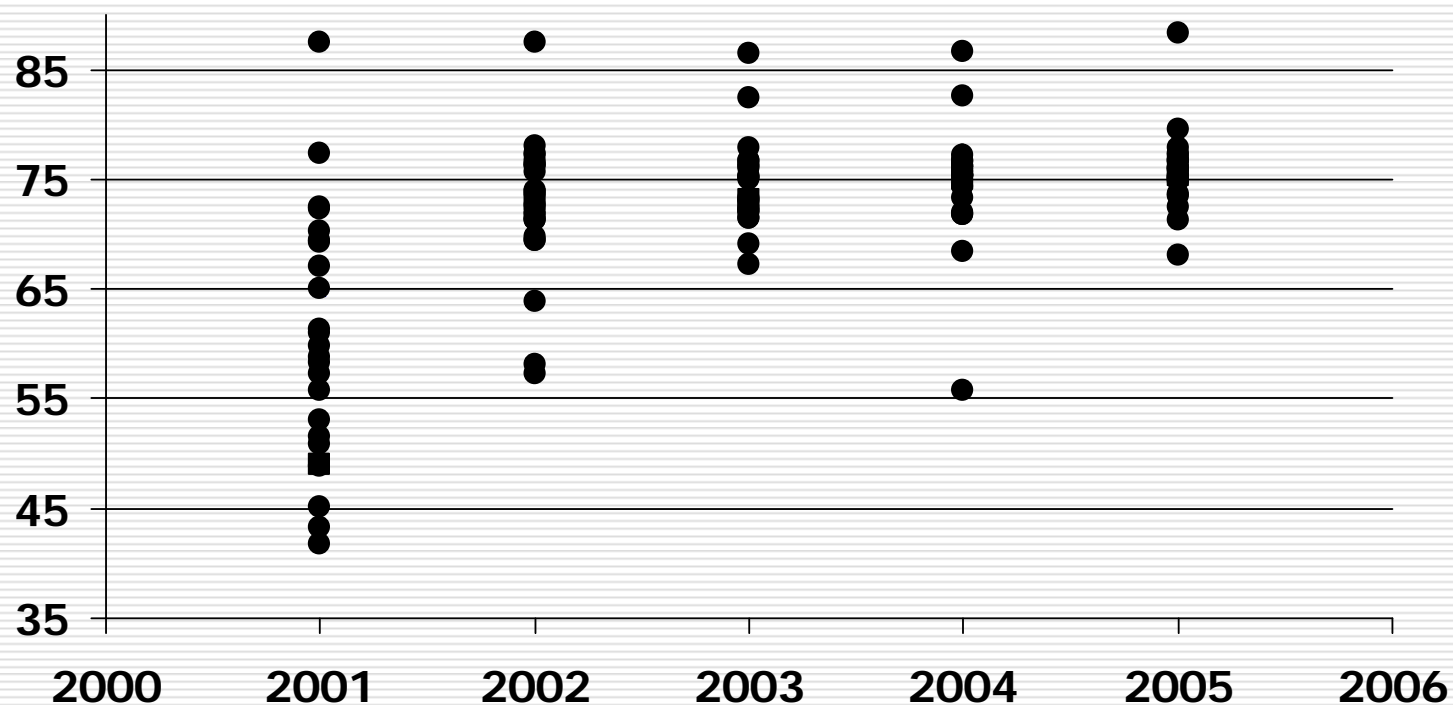
Ambulance response times life-threatening emergencies 75% < 8 minutes *England*

Target →



Ambulance response times life-threatening emergencies < 8 minutes *England*

% < 8 minutes



Target →

Zero-rated →

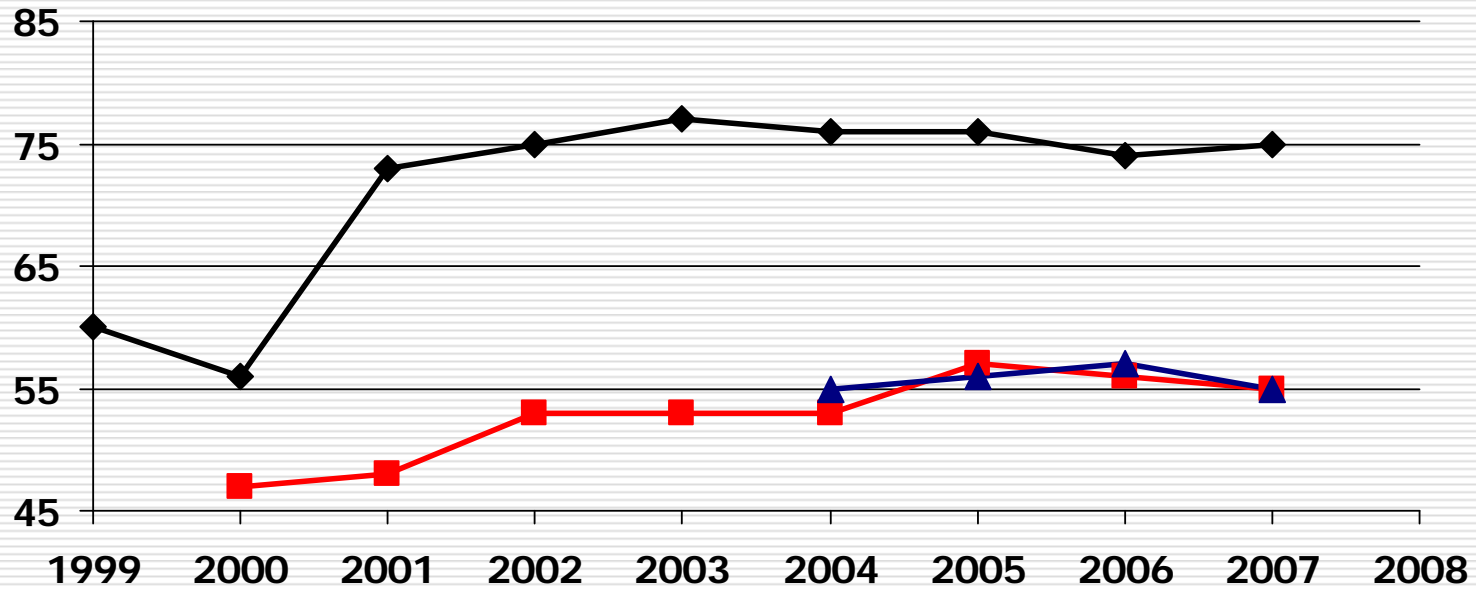
Star ratings published

Ambulance response times life-threatening emergencies < 8 minutes UK countries

% < 8 minutes

Target →

Zero-rated →



Star ratings published

◆ England

■ Wales

▲ Scotland

Impacts of different pathways in US & UK

	Wisconsin	New York	UK targets
Change	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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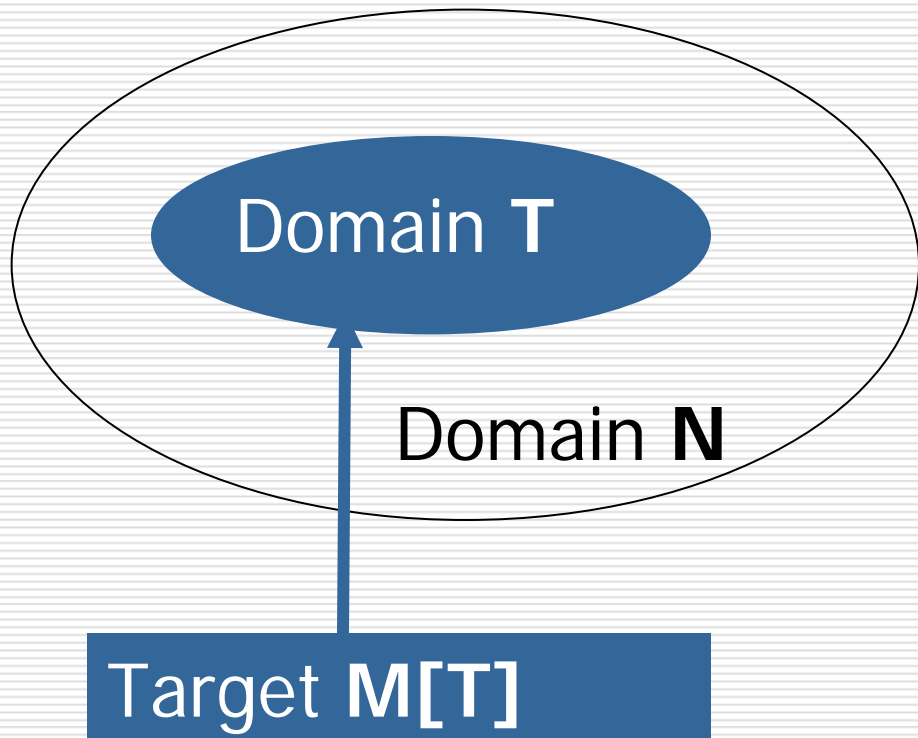
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Problems from synecdoche & gaming: hit targets $M[T]$?



- Synecdoche (**N**)?
 - Worsen performance?
 - Gaming $M[T]:?$
 - Hit the target & miss the point
 - 'Reporting error'
 - Trade-offs between targets
-

Synecdoche: Value for money

- More pay no improved performance
 - Cost £715 million (27% > original estimate) not yet delivering value for money to NHS & patients (March 2006)
- Recommendations
 - Before negotiating a new policy, Department should ensure that it has analysed sufficient contemporaneous evidence from relevant stakeholders
 - All possible scenarios for new policies should be fully financially modelled before they are implemented

Problems of measurement & gaming in A&E (4 hour target)

- Problems of measurement (2004)
 - Hospitals report 96%
 - Survey 55,000 patients: 77%



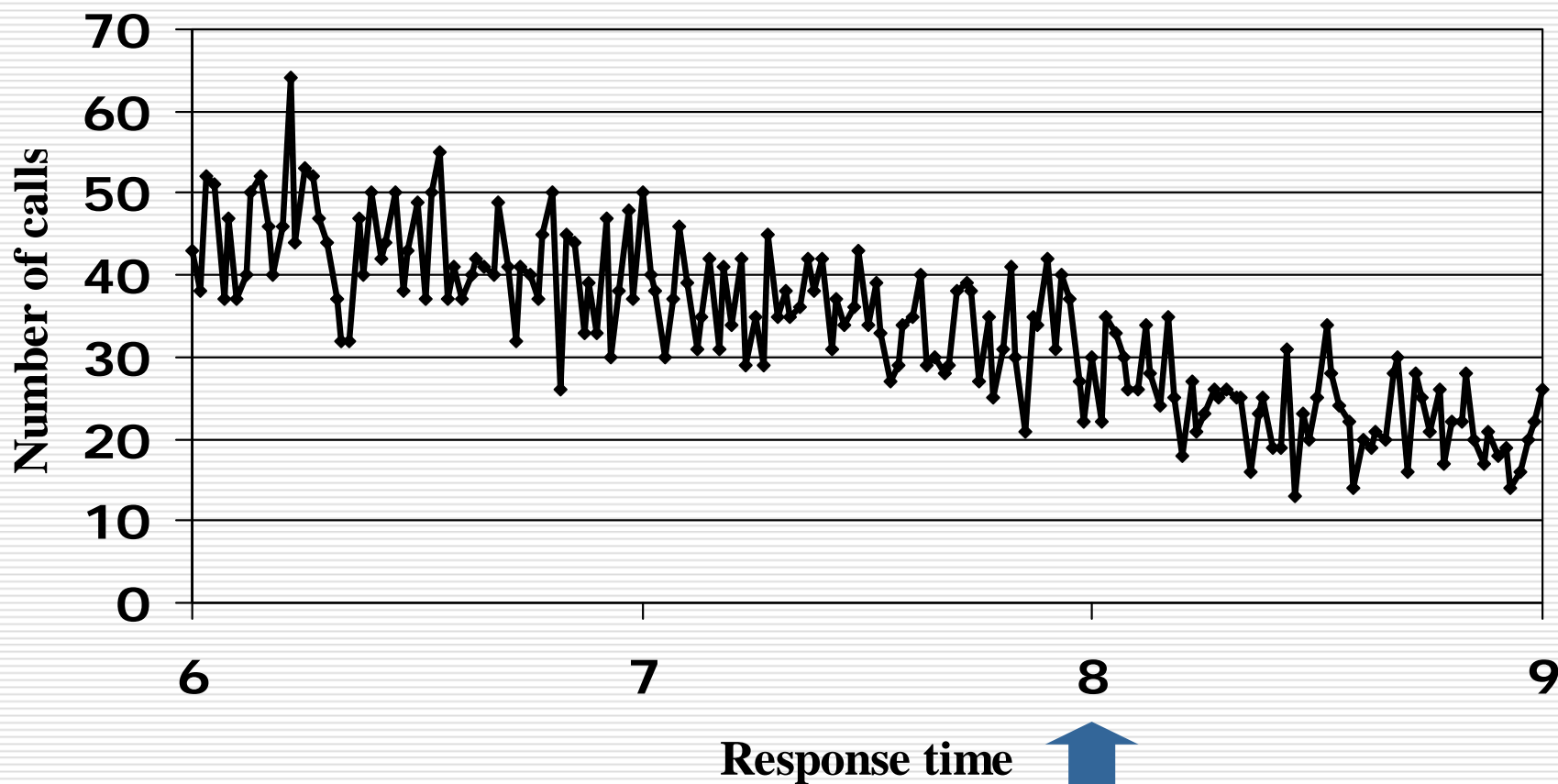
Problems of gaming

M[T] unreliable

Ambulance response times

- Definition of life threatening emergency call?
 - *Fivefold* variation in percentage
 - Measurement error?
 - 3 to 8 minutes!
 - 'Reporting errors'
 - Manually 'correcting' times of calls taking > 8 minutes
-

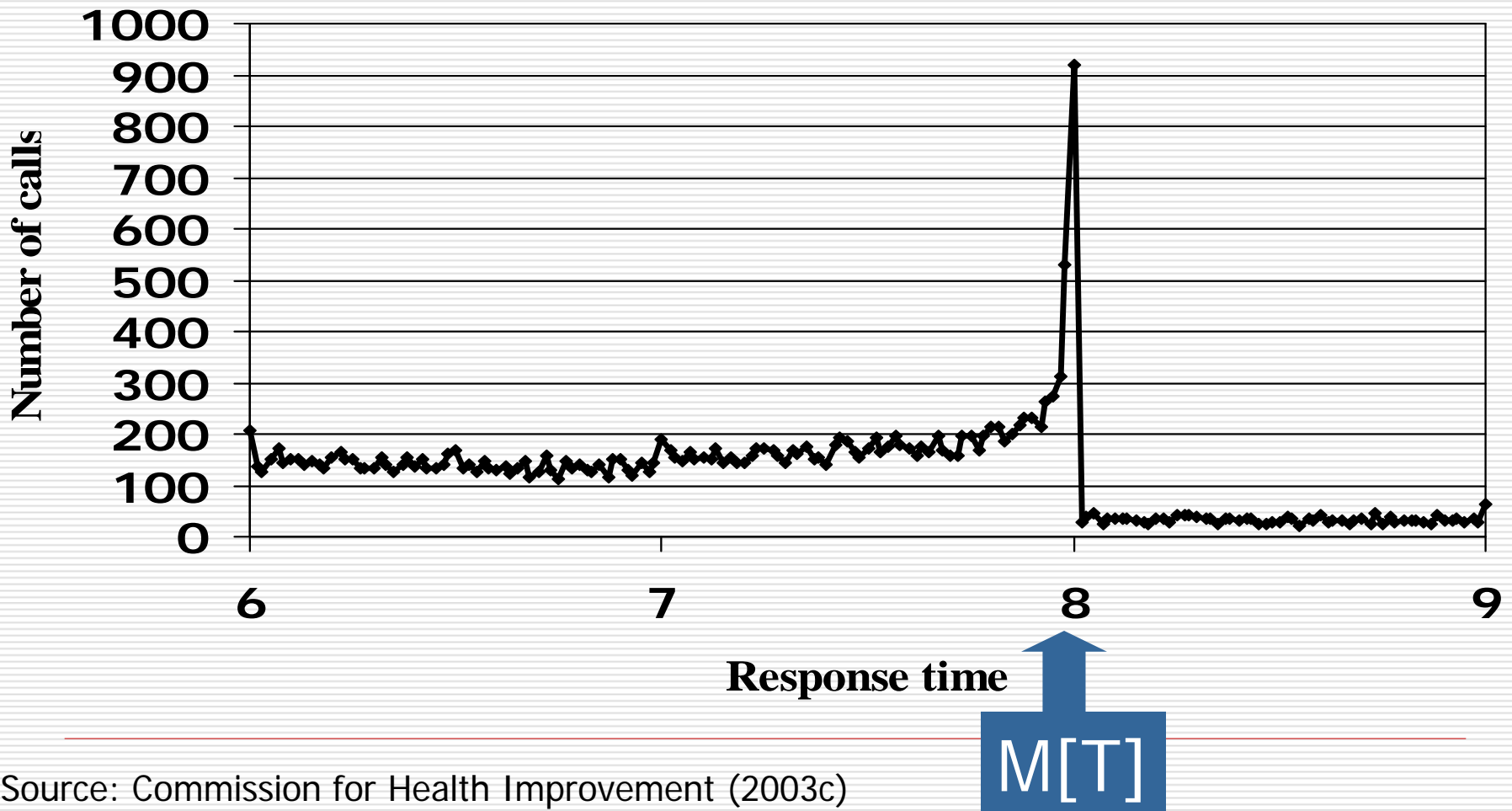
Ambulance response times 'Uncorrected': Noisy decline



Source: Commission for Health Improvement (2003c)
What CHI Has Found in: Ambulance Organisations.

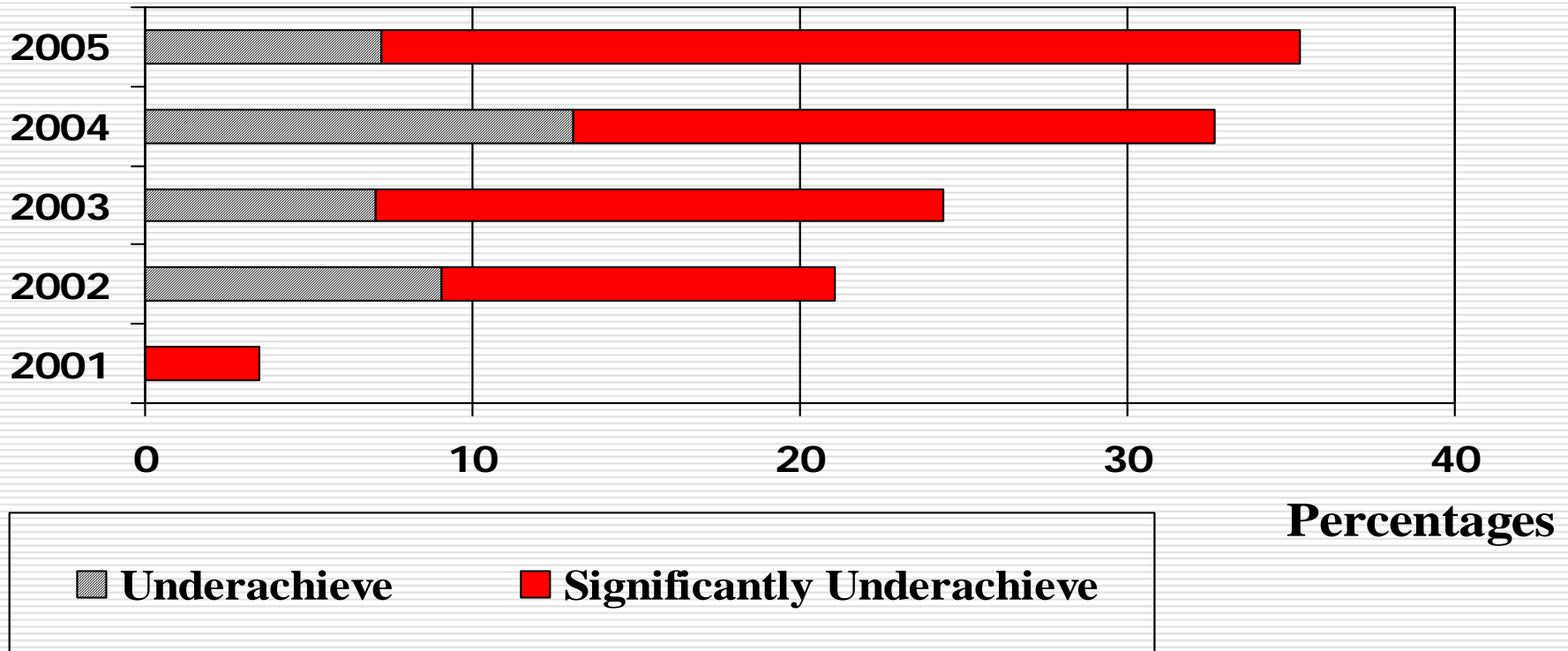
M[T]

Ambulance response times: an example of a 'Correction'



Source: Commission for Health Improvement (2003c)
What CHI Has Found in: Ambulance Organisations.

Trading-off wait time targets & financial deficits



Source: star ratings publications for each year

Consequences of hospital financial deficits

- 2005-06: NHS '£750m in the red'
- Ministers denied NHS chief Sir Nigel Crisp quit over figures



Sir Nigel announced he was stepping down, saying "not everything has gone well"

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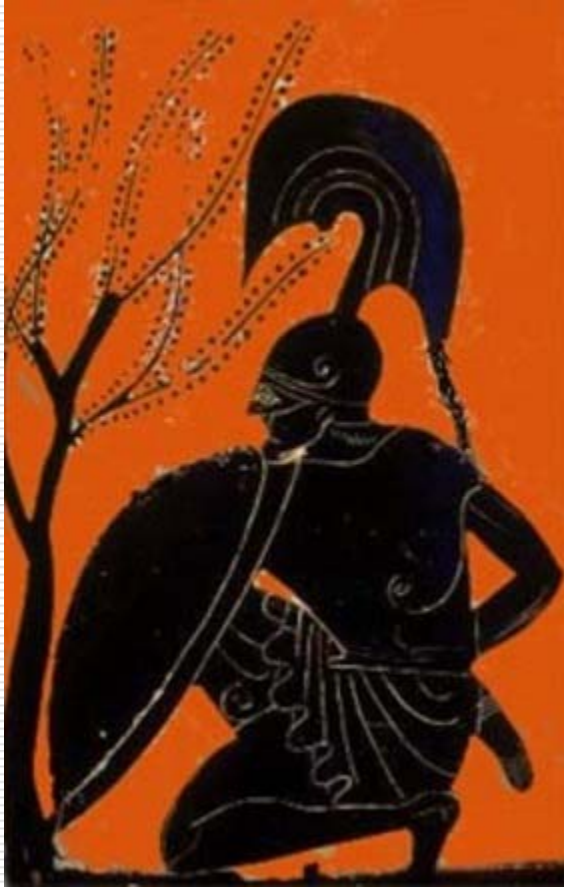
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The wrath of Achilles: Public humiliation by Agamemnon



Reputation vs Financial incentives?

- NHS internal market → Patients & populations → managers
 - Patients & populations benefit from good & suffer twice from bad
 - P4P
 - Why pay more for what people ought to do?
 - Which is more powerful in public services
 - Relating performance to reputation / income?
 - Evidence from another sector with asymmetry of information?
-

Evidence of impact of P4P where it really matters?

- \$70m (stock, options and cash)
 - largest bonus ever given to Wall Street CEO (Christmas 2007)
- Wall Street cash bonuses (% of base salary)
 - top executives 40 to 100%
 - senior managers 15 to 30%
 - entry-level employees 10 to 20%
- Consequences for the real economy?
 - Sub-prime mortgage market



FROM: GS.COM

Lloyd Blankfein

Goldman
Sachs

Transforming NHS in England: Lessons for United States?

Thank you

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