

Health and Healthcare Systems

Lectures 9 and 10

Le Grand, Propper and Smith (2008): Chp 2

Bochel, Bochel, Page and Sykes (2009): Chp 15

Stiglitz (2000): Chp 12

Outline

- Healthcare, efficiency and equity
- Healthcare and the market system
- Forms of Govt intervention
- Govt failures
- Healthcare reforms

Healthcare and Resource Allocation

- Individual's health
 - diet, working conditions, housing, public health measures, health care
- Healthcare and Efficiency

-MSB = MSC

Healthcare and Equity

- Fair and Equitable
- Fairness and Equity defined:
 - 1. Minimum Standard
 - 2. Full equality
 - 3. Equality of access



Measuring the benefits is problematic

The Market System for Healthcare

- Features of a perfectly competitive private market
 - Efficient
 - -Choice
- Is the market allocation of healthcare efficient?
 - -Uncertainty of demand
 - -Imperfect information
 - Externalities
- Small private healthcare sector in UK
- The NHS is mainly publicly funded



The Market System for Healthcare I: Uncertainty of Demand

- Demand for healthcare is unpredictable
 - planning expenditure and savings; healthcare payments tend to be large
- Private insurance market and inefficiency
- 1. Moral hazard (hidden actions)
 - Individual incentives to economise on treatment
 - Doctor incentives to economise on expenditures
 - ⇒ usage and costs > efficient level
 - Note: publicly funded healthcare also subject to moral hazard
- 2. Adverse selection (hidden information)
 - Premiums reflect average risk
 - P > willingness to pay by good risk individuals (healthy)
 - ⇒ under-supply of insurance
 - Bad risk individuals and equity



The Market System for Healthcare II: Imperfect Information

- 1. Quality of a good v quality of individual's health
 - Doctor is supplier of information
- 2. Few opportunities for 'learning by doing'
 - lack of information before and after treatment limits informed choice
- Payment method to supplier
 - Reimburse the supplier for treatment? (moral hazard)
 - Payment per person?
 - \Rightarrow need for regulation
- A relationship of trust (monopoly power) v shop around
 - Costly information
 - Complex information
 - Inaccurate information

The Market System for Healthcare III: External Benefits

- Total social benefit = private benefits + external benefits
 - ⇒ Market provision is inefficient
- 1. Communicable diseases
 - Eradication v side effects eg MMR vaccination
 - Developed v developing countries
- 2. Caring externalities
 - Concern for treatment of the sick
- Ethics and Equity
 - The act of giving and receiving v commercial purposes
 - Altruism v self-interest
 - Intrinsic rewards v extrinsic (pecuniary) rewards
 eg pay individuals to give blood? to supply organs?



Govt Policy I: Direct Provision

- NHS: Public provision of healthcare to mitigate
 - Asymmetric information $\rightarrow \uparrow P$ for medical care
 - Over-provision
 - Over-emphasis on 'high-tech' or 'interesting' cases
- NHS-type systems in many OECD countries
- Hospitals
 - Govt ownership through NHS
 - Public sector workers are employed by NHS
- Primary care
 - Services of (self-employed) general practitioners
- Health promotion activities
 - Responsibility of govt



Direct Provision and Govt Failure

- Direct provision and the market allocation of resources
 - Power of providers
- Govt failures: inefficiency and inequity
- 1. The size of the public sector limits competition
 - State as a monopolist: production inefficiencies
- 2. Direct provision limits innovation
 - Political interest (cost of medical technology) v cost-benefit analysis
- Targets to increase service provision?
 - Reduce waiting times?
 - ...but distorts output activities; fiddling of the figures



Govt Policy II: Regulation

• 1. Acceptable Standards

- Personnel: education, training and qualifications
- Drugs: safety standards

Self-regulation

- Professional bodies within health service
- eg British Medical Association, the Royal College of Surgeons

Public Information

• 2. Price Control

Applicable to healthcare systems with fee-paying patients

Regulation and Govt Failure

- Regulation and the market allocation of resources
 - Monopoly power; excess demand due to moral hazard
- Govt failure: inefficiency and inequity
- 1. Self-regulation
 - Self-interest v interests of consumerseg length of doctor training to restrict supply of doctors?
- 2. Price regulation
 - Price to limit monopoly power v market signals
 - Incentives for inefficient behaviour
 eg ↓ doctor fees → ↑ nr of patient visits ⇒ longer waiting times
 - Under-treatment of patients
 - ⇒ 'cream-skimming' and 'patient dumping' and equity

Govt Policy III: Taxes and Subsidies

- 1. Public funding of healthcare raised from taxation
- NHS: a system of public taxation and public provision
 - Public funding through general taxes
 - Public provision through general practitioners
 - ⇒ no user charges: subsidised at the point of use
 - Non-core healthcare carry lower levels of subsidies
- 2. Subsidies targeted at specific groups
 - Medicaid: healthcare cheaper for low-income groups
- 3. Subsidies via tax treatment
 - Switzerland: private health insurance is tax deductible

Subsidies and Govt Failure: Inefficiency

- Effect of subsidy: ↓P of medical care
 - efficient way of dealing with externalities
- ↓P and Over-consumption
 - Individual: MPC = MPB: Q₁
 - Society: MSC = MSB: Q*

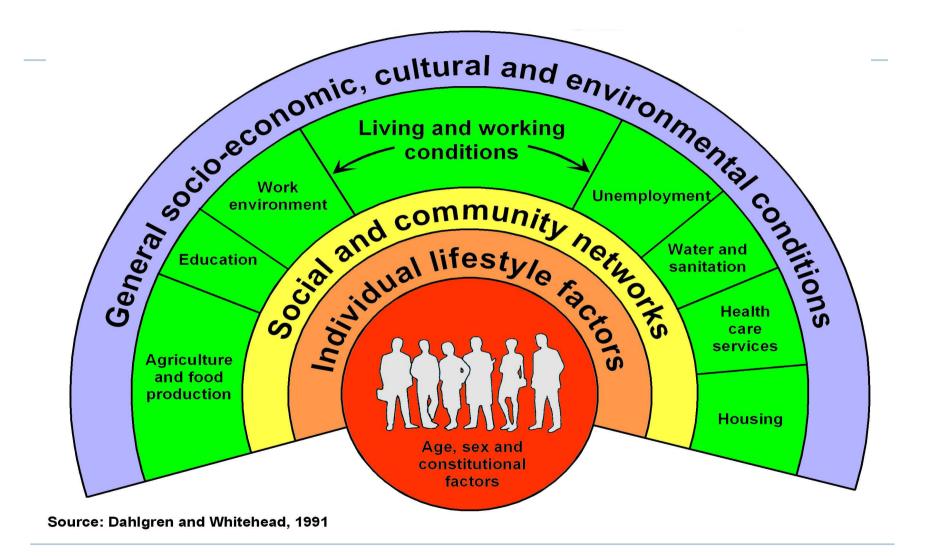
- Good provided free
- -MPC = MPB = 0
 - ⇒ P no longer a rationing device
 - 1. Queues
 - 2. Waiting lists



Subsidies and Govt Failure: Inequity

- Effect of subsidy
 - ↑ rewards from provision to achieve equity goals
 - ↓P of medical care \rightarrow ↑ access to poor
 - Promote geographical equity
- Effectiveness of subsidy
- 1. Type of subsidy
 - Universal eg NHS
 - Means-test eg Medicaid
- 2. Definition of equity
 - Both promote equity in terms of minimum standards
 - Means-test and equality of access and equality of treatment

The Main Determinants of Health



NTU

Healthcare Reforms

- Markets and Govt subject to inefficiencies and inequities
- Incentive structures
 - 1. Quasi-market reforms: ↑ market incentives
 - Separate roles for hospital provider and purchaser functions
 - Market created on the supply side
 - Also: regulated prices; encourage entry of non-public providers
 - 2. Cost sharing at the point of demand
 - ↑ patient awareness of costs
 - ↓ govt exp
 - 3. Other measures
 - Low price managed care plans eg HMO
 - Insurance market competition



Summary

- Healthcare and Efficiency: MSC = MSB
- Healthcare and Equity
 - Minimum standard
 - Equal treatment for equal need
 - Equality of access
- Healthcare and Market inefficiency
 - Uncertain demand
 - Asymmetric information
 - Externalities
- Govt health intervention is substantial in OECD countries
- Reforms: ↑ role of market, maintain equity goals
 - \Rightarrow cut costs but equity concerns

