HEALTHE CONOMICS ICS

Concepts & Tools

What Is Economics?

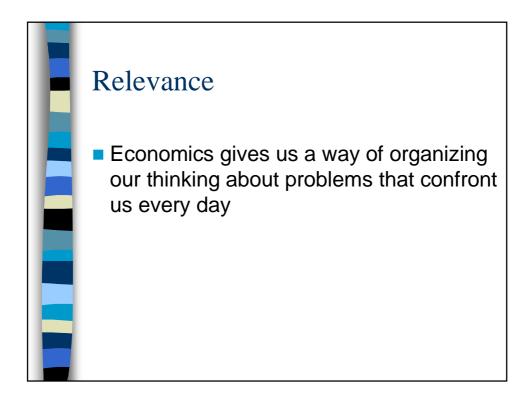
- Study of how society allocates its scarce resources
 - Unlimited wants, limited resources
 - Tradeoffs ⇒ Must make decisions



- Framework rather than set of solutions
 - Study human behavior
 - Way individuals make decisions
 - Way individuals respond to incentives
 - Way people interact with each other
 - Help define alternative mechanisms available to improve resource allocation

Health Economics

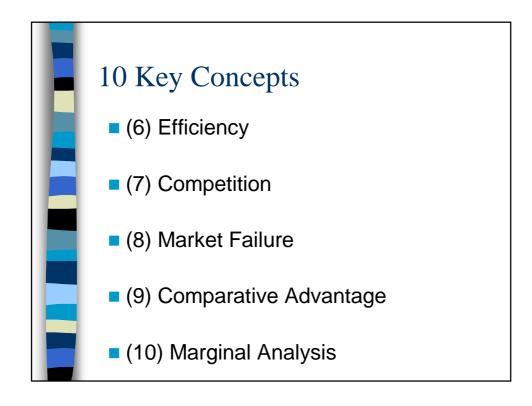
 Use economic tools to study resource management issues specific to health care

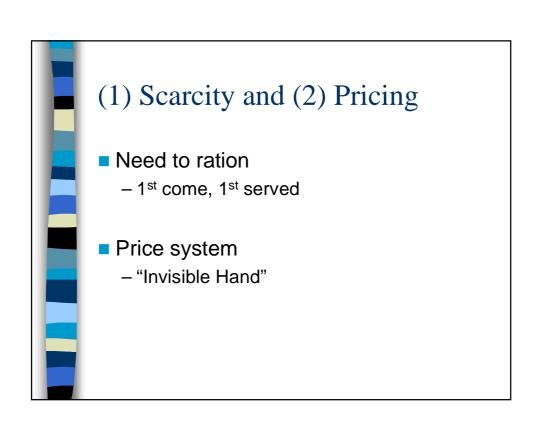


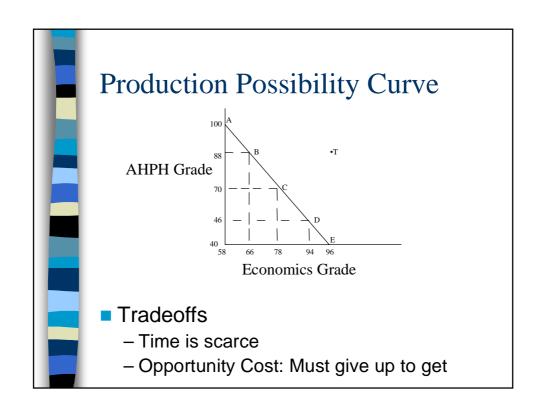
Relevance • Future health care decision makers will need training & knowledge - Natural sciences - Statistics - Epidemiology - Behavioral sciences - Ethics - Decision analysis - Economics

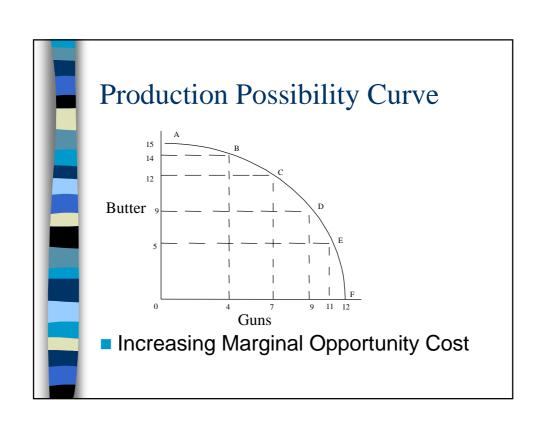
Economic Way of Thinking Includes Jargon Graphical Analyses Mathematical Expressions

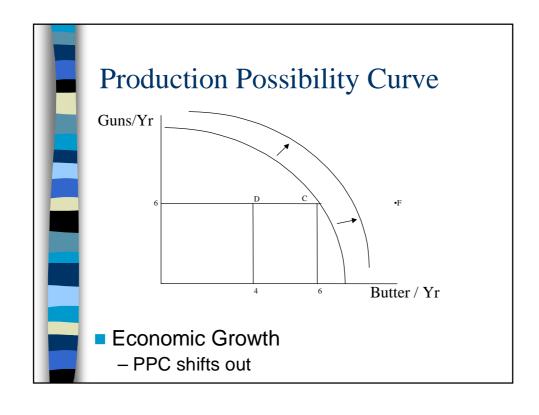










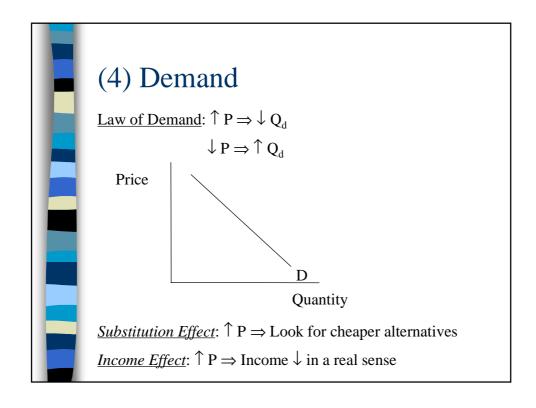


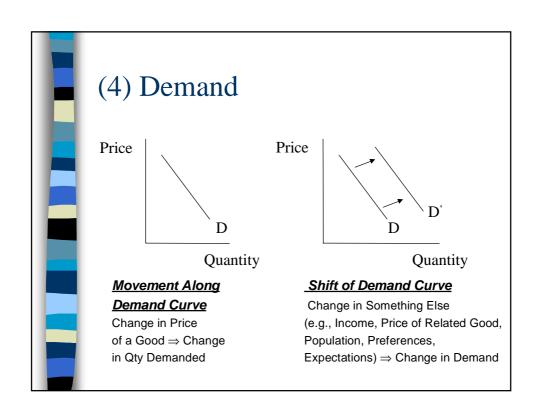
(3) Opportunity Costs

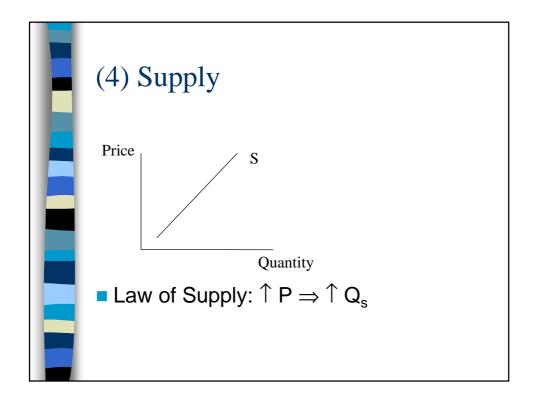
- Value of the next best alternative foregone
 - E.g.,

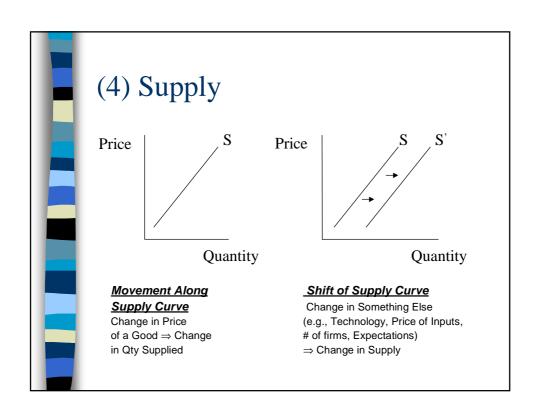
	А	В	С
Value	20	12	8
Price	10	10	10

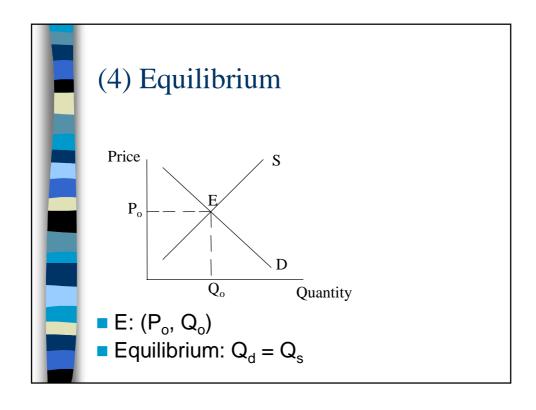
- Choose A, B, or C?
- What is the value of the next best alternative?

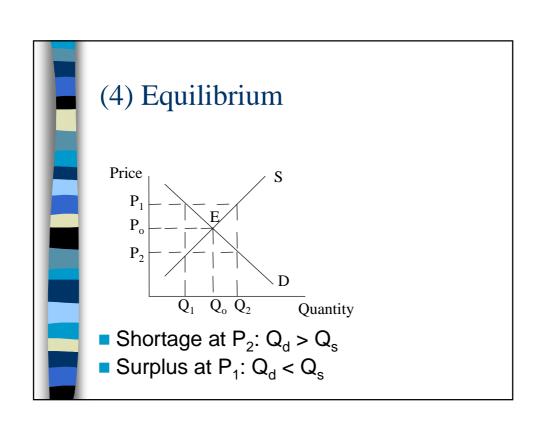










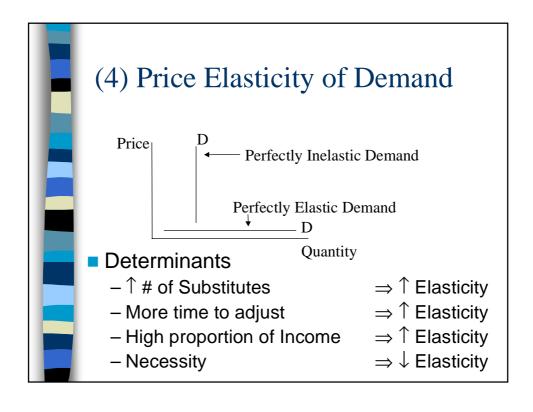


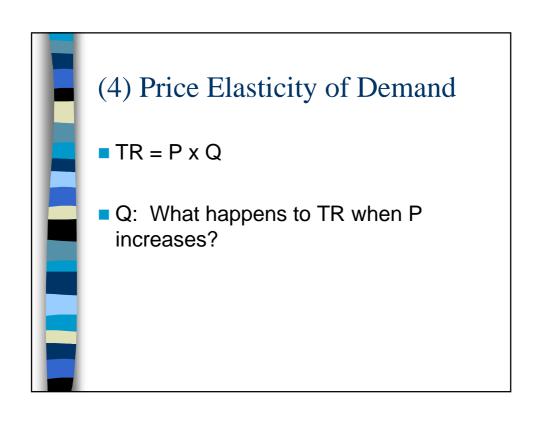
(4) Price Elasticity of Demand

- E_d is the responsiveness of quantity demanded to change in price
- $\mathbf{E}_{d} = \% \Delta \text{in Q} / \% \Delta \text{in P}$

(4) Price Elasticity of Demand

- Consider absolute values:
- E_d = ∞ ⇒ Perfectly Elastic
- 1 < E_d < ∞ ⇒ Elastic
- $E_d = 1$ \Rightarrow Unit Elastic
- $0 < E_d < 1$ \Rightarrow Inelastic
- E_d = 0 ⇒ Perfectly Inelastic

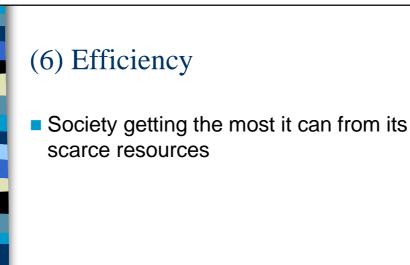




Exercises Supply and Demand Elasticity of Demand

(5) Self Interest

- Economic decision makers are motivated to pursue their own self interest
 - People respond to incentives & constraints when they individually benefit
- Individual self interest leads to promotion of the general welfare of everyone in society
 - Adam Smith



(7) Competition Forces resource owners to use their resources efficiently Get the highest possible satisfaction of society Production shifts from hands of less competent to hands of the more efficient Promotes more efficient methods of production

(8) Market Failure

- Free markets sometimes fail to promote efficient use of resources
 - Produce more or less than optimal level of output
- Sources:
 - Natural monopoly
 - Externalities in production and consumption
 - Public goods
 - Incomplete information

(9) Comparative Advantage

Everyone specializes in activity they do best (I.e., lowest opportunity cost)



- Economic way of thinking about optimal resource allocation
 - Choices are rarely made on an all-ornothing basis
 - Choices are made "at the margin"
- Compare benefits & costs at the margin
 - Marginal Benefit (MB)
 - Marginal Cost (MC)

(10) Marginal Analysis

- Individuals maximize (optimize) utility subject to budget constraints
 - Consume at level where MB = MC
- Firms maximize (optimize) profits subject to resource costs
 - Produce at level where MR = MC



Way to quantify enjoyment people get from goods and services

Marginal Utility: the change in utility from an additional unit

	TU	MU
0	0	
1	14	14
2	26	12
	1	0 0 1 14



- Diminishing Marginal Utility: the more of something you consume, the less utility you get from an extra unit
 - E.g., Buffets, Alcohol/beverages