



HEALTH ECONOMICS

Title:
Lecture no:

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كمية السلعة التي يمكن ان تشتريها الناس 🥶 القدرة على الدفع

Demand is the ability and desire to pay for goods and services.

If there is a high demand, the for-profit sector, governments will

supply those wants.



Demand refers to how much (quantity) of a product or service is

desired by buyers or consumers.

المحية المطاوية

The quantity demanded is the amount of a product people are

שבופיט איללי willing to buy at a certain price; the relationship between <u>price</u> and

quantity demanded is known as the demand relationship

قدرة الشخص على انتاج السلع الشخص المنتجSupply

قدرة الشخص على الدفع (المستهلكين) Demand (قدرة الشخص على الدفع

Negative relationship between demand and the price

In general, demand reflects:

- Population health needs,
- Their ability to pay for الاستعادة و service utilization
- Availability of services to be used.

Demand
Objectively observable as behavior in the market.
Money is a key factor.
"Demand" is also called "effective demand."
because it's expressed only by spending money.

• Health is treated as a store which <u>degrades</u> و over time in the absence of "<u>investments</u>" in health, so that health is viewed as a sort of wealth.

as a sort of wealth.

• Investment in health is costly



- Health plans that focus on need and ignore demand will face under- or overutilization of service capacity
- If one believes quantity demanded is too little or too much (e.g. under-use or overuse of emergency room) relative to need, then quantity demanded must be manipulated by changing,
 - price or other costs to buyer, or
 - demand through marketing or de-marketing

A model of demand for medical care...

 According to Michel Grossman, consumers have a demand for health for two reasons:

سلعة استهلاكية Health is a consumption commodity—it makes the consumer feel better تنتكس كلي الانتاجمية سلعة استثمارية an investment commodity—a sell determine the amount of time available to the consumer for productivity

Grossman's demand model...

کون According to this model every one inherits a

stock of health when born
مخزون من الصحة يقل مع مرور الوقت

مع مى ورالومت الحفضت

- Health depreciated overtime, however an investment is required to sustain health
- As peoples' age advances there is an increase in rate of illness and in the utilization of health services.

الحفاظ علم

• The stock of health can be sustained by investment to maintain health, such as use of health services and health promoting activities

Grossman's demand model...

والمة المنظى • A view of medical care demand being منظم derived from the demand for health implies the following:

increase in age result in an increase in the rate at which the person's stock of health depreciates

- Over the life cycle people will attempt to offset part of the increased rate of depreciation in their stock of health by increasing their expenditure on health

التعويض عن طريق زيادة الانفاق الصحي

- the demand for medical care will increase with increases in person's income

المحمة المطاوية Quantity demanded is negatively relate price. This implies that the demand curve is downward sloping (holding ALL other variables constant)

- Law of Demand قانون الطلب
 - -The law of demand states that, the quantity (q) demanded of a good falls when the price (p) of the good rises

* 22mie * - The 1801/14/52

Demand Schedule = Using USingle

The *demand schedule* is a <u>table</u> that shows the relationship between the <u>price</u> of the good and the <u>quantity demanded</u>. Negative relationship

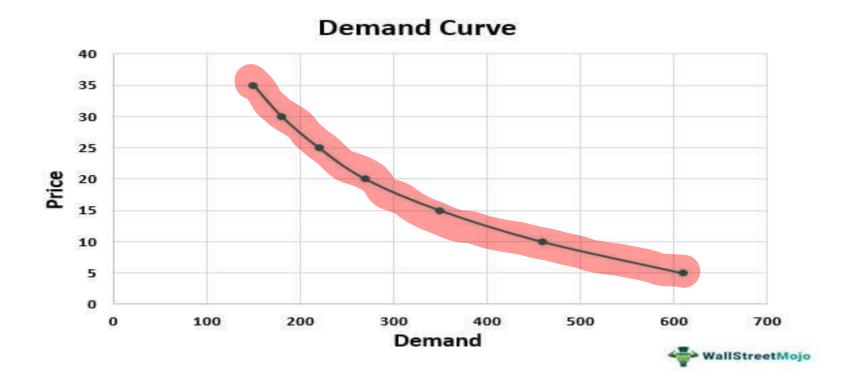
Market Demand Schedule		
Price (\$)	Quantity Demanded (units)	
5.00	610	
10.00	460	
15.00	350	
20.00	270	
25.00	220	
30.00	180	
35.00	150	

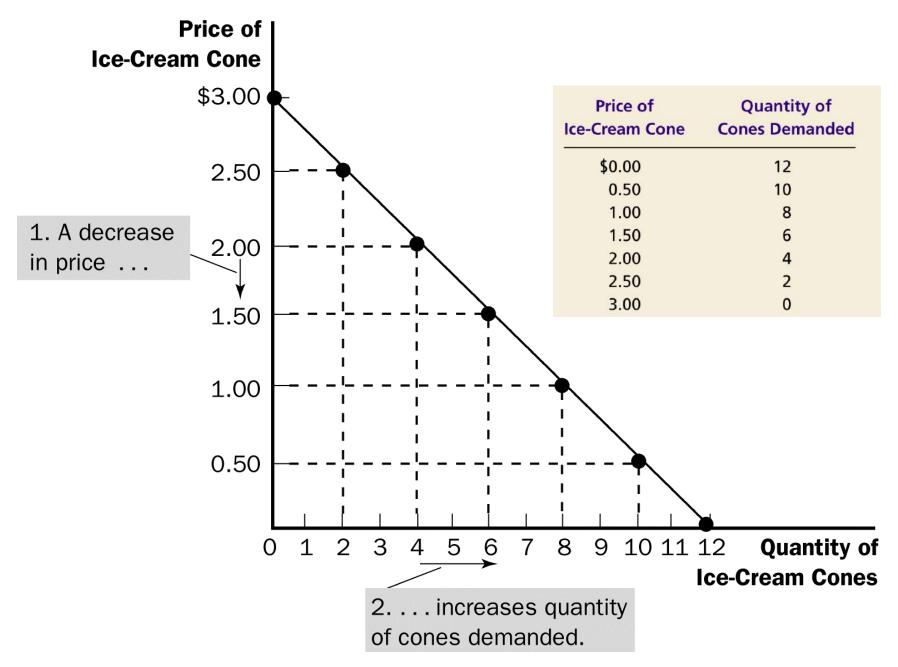
Market Demand			
Schedule			
Price of a	Number		
Small	demanded		
Soda	per day		
\$0.25	890		
\$0.50	500		
\$0.75	480		
\$1.00	470		
\$1.25	410		
\$1.50	350		
\$1.75	280		
\$2.00	240		
\$2.25	200		
\$2.50	150		
\$2.75	100		



Demand Curve ⇒ Cicy Sch Us

The demand curve is a graph of the relationship between the price of a good and the quantity demanded.





Understanding The Concept of Needs, Wants and Demands



Needs

مالات اساسية على حدم وجودهايمني عرمان

- States of deprivation
- Physical food, clothing, shelter, safety, water
- Social belonging and affection
- Individual knowledge and self-expression

Wants

م ورستميل الحياة دونه

A want is a product desired by a customer that is not required for us to survive. So, want is the complete opposite of need, which is essential for our survival.

Demands

If a customer is willing and able to buy a need or a want, it means that they have a demand for that need or a want.

 Other goods or services which satisfy the same wants or provide the same characteristics

— E.g;

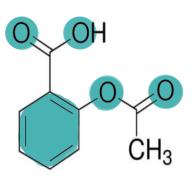
عندما یکون هناك بدیل بسعر اقل و تلبیة نفس الغاية بالتالي يؤدي ذلك إلى انخفاض

Doctor versus general practitioner
 Generic and brand name medications

الطلب على المنتج الأول

- Private and public hospitals
- If the generic medication decreases in price, demand for brand name will decreases





How can we reduce the quantity of smoking demanded in the population ?









Dr. Omnia Elmahdy

How can we reduce the quantity of smoking demanded

1. Public service <u>announcements</u>, mandatory health <u>warnings</u>

on cigarette packages, and the prohibition of cigarette

علان الله على الله ع

demand for cigarettes.

2. Raising the price of cigarettes (through tobacco taxes) lowers

the quantity of cigarettes demanded

رفع السعر حتى يقل الطلب

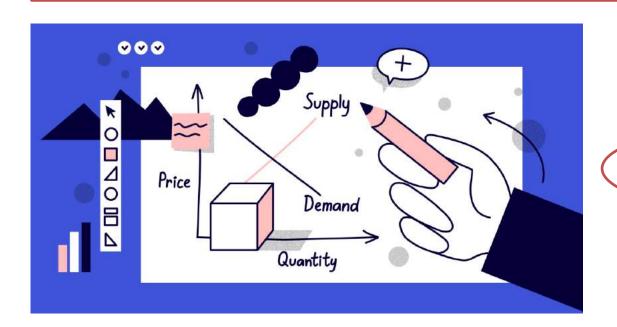
مة التي السلح

- 3. Studies have shown that a 10% increase in the price of cigarettes causes a 4% reduction in the quantity of cigarettes demanded. For teens a 10% increase in price leads to a 12% drop in quantity demanded.
- 4. Studies have also shown that a decrease in the price of cigarettes is associated with greater use of marijuana. Thus, it appears that tobacco and marijuana are complements.





Healthcare Economic Terms: 3- Supply



Dr. Omnia Elmahdy



ity supplied is the amount of a good that راعنون قادرون

are willing and able to sell.

عندما يرتفع سعر السلعة يؤدي ذلك إلى انخفاض الطلب عليها بينما هذا يدفع شركات الإنتاج و المنتجين والباقى ع السلع على زيادة الإنتاج من هذه السلعة بهدف الربح وتعمل لها اعلانات و عروض على Law of Supply

200 , 301 July — The *law of supply* states that, the **quantity supplied**

of a good rises when the price of the good rises.



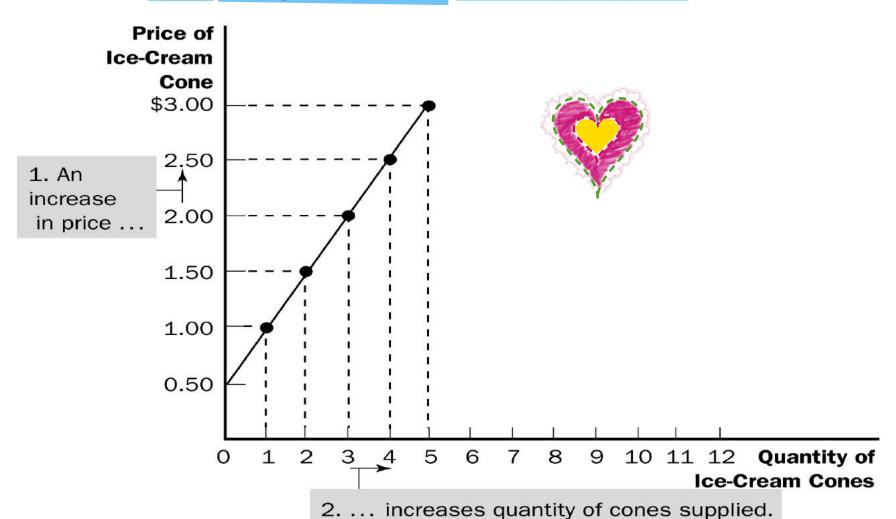
Supply Schedule

The supply schedule is a table that shows the relationship between the price of the good and the quantity supplied

	Price of Ice-Cream Cone	Quantity of Cones	
5-1	\$0.00	0	2
	0.50	0	
The state of the s	1.00	1	8
1	1.50	2	1
	2.00	3	
	2.50	4	
	3.00	5	

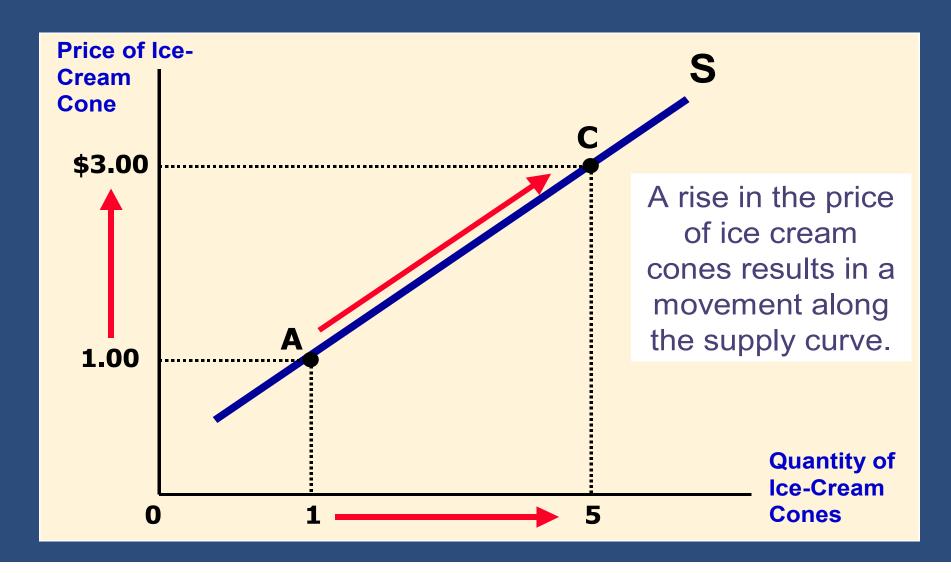
Supply Curve

 The supply curve is the graph of the relationship between the price of a good and the quantity supplied.



التغير عن التحديد المعدمة

Change in Quantity Supplied



What are the supplies in healthcare?

طَقَتَلَنَ الْمُتَدَادِيمٌ) 1- Labor time of various trained professionals, such as GPs, specialists, nurses, medical technicians, pharmacists, and many others العَرى بالرس المعنافسي الماع ادات والاجتبادات 2- Procedures and testing, such as magnetic resonance imaging كالم مخوية عبنات المع (MRI) scans and laboratory analyses of blood samples 3- Hospital and nursing care **services** جدمات الطوارعي 4- Emergency services such as ambulances منحات جسدلانته Lilias. 5- Pharmaceutical products (which itself covers a huge range, ادوية كلاع كيميائي الهذارات from bandages to chemotherapy drugs)

Equilibrium () Sol ala



supply = demond

Equilibrium refers to a situation in which the price has reached the level where quantity supplied

Demand Schedule		Supply Schedule		
Price of Ice-Cream Cone	Market	May M	Price of Ice-Cream Cone	Market
\$0.00	19		\$0.00	0
0.50	ىك 16	ي الذي وص	0.50 مستوع	0
1.00	13	سعر و هو	ال ۱.00	1
1.50	10		150	4
2.00	7	ي الذي فيا	2.00 المستو	7
2.50	4 511	ی pplied	2.50	10
3.00			3.00	13
	an	ıd demar	nded /	

At \$2.00, the quantity demanded is equal to the quantity supplied!

SUPPLY AND DEMAND TOGETHER

Demand Schedule

Price of Ice-Cream Cone	Market	
\$0.00	19	
0.50	16	
1.00	13	
1.50	10	
2.00	7	
2.50	4	
3.00	1	

Supply Schedule

Market	
0	
0	
المحلق المسلم	
المانعاء 1 المانعاء	
7	
10	
13	

At \$2.00, the quantity demanded is equal to the quantity supplied!

Figure 8 The Equilibrium of Supply and Demand

