



HEALTH ECONOMICS

Title: DEMAND And SUPPLY

Lecture no : "3" "

Done by: Morom Al-wrainet



﴿ وَلَسَوْفَ يُعْطِيكُ رَبُّكَ فَتَرْضَى ﴾ .

اللّهم بركة الخُطى

سَنكونُ يَوماً ما نُريد

لَا أَبْرَحُ حَثَّى أَبْلُغَ

رِّبِ زِد نِي عِلماً

Demand is the **ability and desire to Day** 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.

The quantity demanded is the amount of a product people are willing to buy at a certain price; the relationship between <u>price</u> and <u>quantity</u> demanded is known as the <u>demand relationship</u>

Demand : How much can the consumer pay for
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Le Negative
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Consumer clift quaire Comand *
<u> خطاحہ جتنی دینا رینکا عصاری کی کیام الع</u>
عم بتدر نینج ملع ؟ ماوولی مورد دید قنعلدن
لى ممينداند "خمينالك الناسالية كيمينا الميمية"

يىلىي In general, demand reflects :

- Population health needs,
- Their ability to pay for 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.

<u>ंदंश maney और िंद्र उपग्रम Demand उर्ज</u> <u>रियुग्नेस्य प्रस्मा स्थितीय किसीय किसीय</u>

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

Tovestment in health is cost this cust this cost of the cost of health for human to productivity to the cost of th

• Investment in health is <u>costly</u>

* النسه الدَّن وكل اسم بايش كنعن " كيتر عممين "

Adam Smith is Invisible hand

* Maslow's hierarchy us Bosic needs

* Philips up Curve (Inflation And Unemployment)

* Grossman's us In this lecture



عرون Need versus demand.

- 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

غين تنعلس على productivity مسلعة استثمارية — Health is an **investment** commodity—a state of health will determine the amount of time available to the consumer for productivity

Time available for productivity 1 سوف بسيطه أن يلسب أكثر ويتعل أكثر



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Grossman's demand model...

1) According to this model every one inherits a stock of health when born

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- 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.

اكفاظالك

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

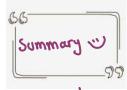
كذيج غادل مستثمر في الحدة على الدخم إن الخاكمات المالك

Grossman's demand model...

- A view of medical care demand being 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 * ابنت Demond ولايس Need

-the demand for medical care will increase with increases in person's income or standard of living



Investment commodity up productivity

Consumption Commodity w> consumer will feel befter

Grossman's Demand model was Health is <

Stock of health By time Degradation Jis Investment in health Sustain (health)

التنطعالية لفترة أطول

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

Demand , price) cim sinus

Curve > Price

Vertical Accessus Price

Harizantal Acessus Demand

Oownward * جاء دنس Upward

قانون الطلب Law of Demand

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

Demand Schedule - يعديه تعاد يلاد العديد المسامة المعادية المسامة المعادية المسامة المعادية المسامة المعادية المسامة المعادية المسامة المسامة

 The demand schedule is a table that shows the relationship between the price of the good and the quantity demanded.

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						

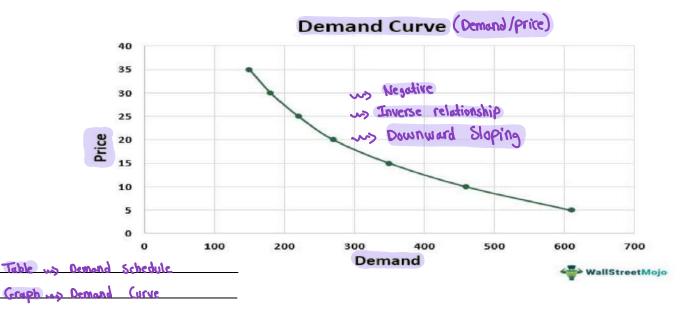


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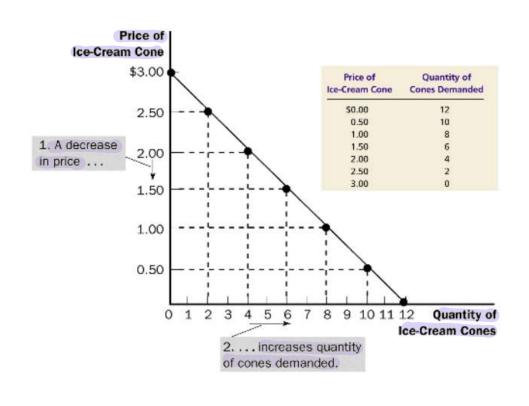
Demand Curve

- The *demand curve* is a **graph** of the <u>relationship</u> between the <u>price</u> of a good and the **quantity** demanded.



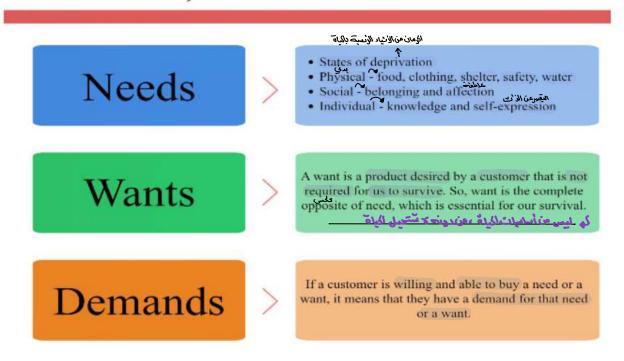
Dr. Omnia Elmahdy

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Understanding The Concept of Needs, Wants and Demands



بدائل Substitutes

• Generic and brand name medications

· Private and public hospitals

— If the generic medication decreases in price,

demand for brand name will decreases

- المراب ال





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









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

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

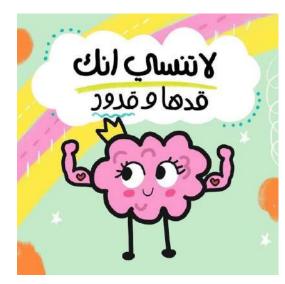
on <u>cigarette packages</u>, and the <u>prohibition</u> of cigarette

advertising on television are policies designed to reduce the

demand for cigarettes.

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

the quantity of cigarettes demanded



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.

لله الذونام ليس الكفط المنط ا

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.

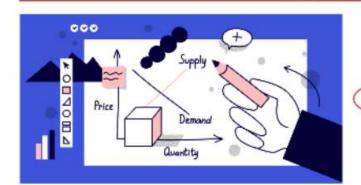
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	معربة المعربة
Cigarettes City	ز زا رس اانه ساید دغه
	marijuana

<u> </u>	لا لومِي أَرْبِي
* Health Education And Awareness And	Anouncements
* Price 5	<u> </u>
Demand 1	





Healthcare Economic Terms: 3- Supply



Dr. Omnia Elmahdy

SUPPLY

• Quantity supplied is the amount of a good that

Octoor of the consumer sellers are willing and able to sell. And produce if .

Be Strong,
You make
Your Success
Only if You
Want.

Law of Supply

 The law of supply states that, the quantity supplied of a good rises when the price of the good rises.

نؤميح

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

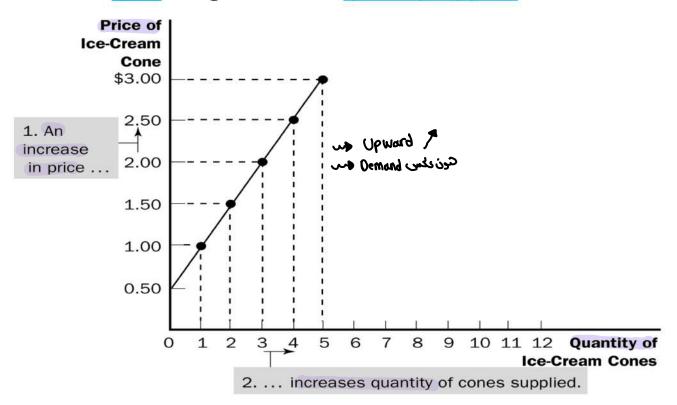
Price of	Qua	antity o	f
Ice-Cream C	one	Cones	
\$0.00	ار میروی	0	<u></u>
0.50	ه حونالارقام	0	
1.00	العكس	1	y
1.50	* كلما بزلا سعراك فلى	2	100
2.00			9
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3.00	بسلاله يو شاككسب	5	
	profit making		

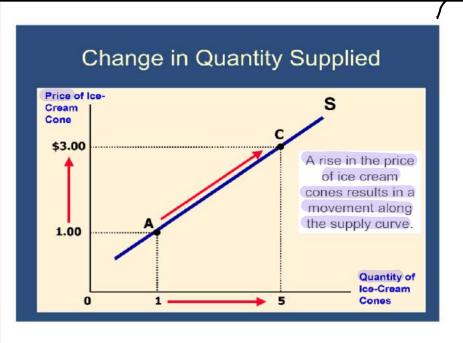


Supply Curve

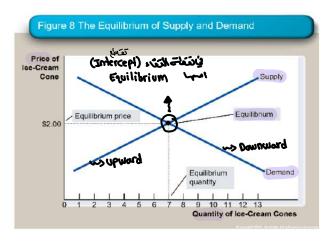
* Important &

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





* لوزدت می الرسمت Demand دیمیونوا متعاطعین



<u>Fewilibrium Supply = Demand</u>

What are the supplies in healthcare?

- 1- Labor time of various trained professionals, such as GPs, specialists, nurses, medical technicians, pharmacists, and many others
- الامتياني المعتمليسي الامتيادات 2- Procedures and testing, such as magnetic resonance imaging التحييل العيارية (MRI) scans and laboratory analyses of blood samples
- Hospital and nursing care services
- سيرات الإسعان 4- <mark>Emergency services</mark> such as ambulances
- 5- Pharmaceutical products (which itself covers a huge range, from bandages to chemotherapy drugs)

Equilibrium

* Impartant

Equilibrium refers to a situation in which the price has reached the level where quantity supplied equals ρείζε quantity demanded.

المعمد المعربة المعرب

Demand Schedule

rice of Ice-Cream Cone	Market
\$0.00	19
0.50	16
1.00	13
150	10
2.00	7
2.50	4
3.00	1

Su	pp	ly Sch	edu	le

Price of Ice-Cream Cone	Market
\$0.00	0
0.50	0
1.00	1
1.50	4
2.00	7
2.50	10
3.00	13
/	

At \$2.00, the quantity demanded is equal to the quantity supplied! = 7

<u>Fquilibrium = 7</u>



Equilibrium price

Equilibrium Demand quantity

0 1 2 3 4 5 6 7 8 9 10 11 12 13

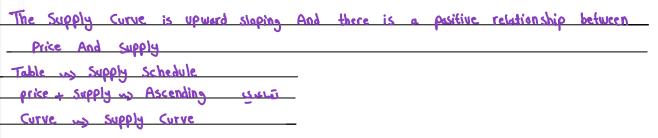
Figure 8 The Equilibrium of Supply and Demand

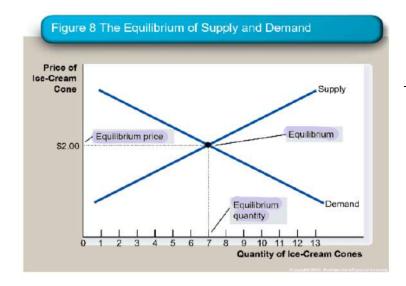


- قانون الطلب Law of Demand
- The law of demand states that, the quantity (q) demanded of a good falls when the price (p) of the good rises

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- Law of Supply
 - The law of supply states that, the quantity supplied of a good rises when the price of the good rises.





Quantity Supply = Equantity Demand

Salul(mis)(1)150 *

اللَّهُمُ أُعني على الدراسة ولا تجعل قلبي يمل منها وكن معي في كل لحظة ووفقني لما تحب وترضى وارزقني التوفيق والنجاح وارزقني التوفيق والنجاح

اللهم و فِقني فإن التوفيق مِن عـندك و سَهِل امري فإن التسهيل مــن لُطفــك

> موقفین ت نذکروا: الله بقیرت

Dane by: Moram Al-wraikat

اللهم ارنى عجائب قدرتك و عجائب الفرج فى مستقبلى وامنياتى واكتب لى حظاً ونصيباً اكبر مما اتمنى. اللهم اسألك ان لا تضيع لى تعب. اللهم وفقنى فإن التوفيق من عندك





