

HEALTH ECONOMICS

Title : Healthcare Economic terms Lecture no : 7 Done by:Ramzi ald3ja

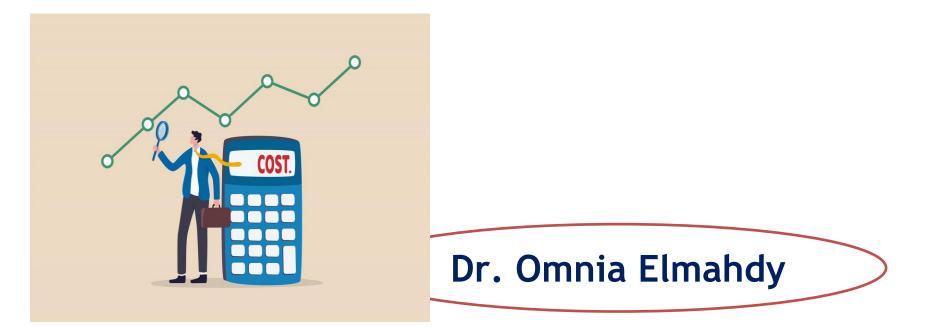
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تىوبر





Healthcare Economic Terms: Cost



I. <u>Cost:</u>

Cost of health care لازم یکون محسوب فیه opportunity cost

In economic terms, cost is what a health services activity is will **impose** on <u>patients</u>, their <u>families</u> and other agencies as well as the costs to the <u>health sector</u> itself. کل ما صارت ال coportunity cost اللي کنت اعملها سطل اعمل الchoices اللي کنت اعملها

The **cost** of using a resource in a particular service or treatment is, **not (necessarily) the price** that is paid for that resource but the benefit foregone **(the opportunity lost)** by not choosing the alternative Efforts to determine the cost of services and programmes from the perspective of a health economist are likely to differ from those employed by an accountant.







Seriously ill requires:

More devoted time (cost) Higher qualifications and expertise (cost معدات متطر Sophisticated equipment (cost) ادوية قوية



Less Seriously ill requires:

Less devoted time (cost) Lower qualifications and expertise (cost) Regular equipment (cost) Regular medication (cost)

There are basically three stages involved in the process of costing

health care services and interventions:

اتعرف مكانواع ال داده م

(1) Identification of costs

قياس التكاليف المحددة

(2) Measurement of identified costs; and

(3) Translation into a monetary amount مبلغ نقدي (bearing in mind

that money may not always be the most representative indicator

of opportunity cost)

هون اني لازم احوول الرقم اللي بطلع عن*دي* لمعنى (اعملله تفسير)

Direct vs indirect cost

1. Direct costs

These relate to the use of resources directly as a result of the

treatment and health care process.

They include:

- Drug costs,
- Cost of nursing,
- Medical and other staff time involved in delivering care and administering the procedures,
- Costs of materials and equipment used in service provision,

• PLUS costs to other organizations involved in the process

AND to patients, in terms of time costs, transport costs and out-



Dr Omnia Elmahdy

2. Indirect costs/productivity costs



These relate to **(losses' to society** incurred as a result of the

impact of disease, illness and treatments in **preventing people from engaging in normal daily activities**, such as work, domestic

responsibilities and social and leisure engagements.

In terms of work losses, this is called <u>'productivity costs'</u> – which refer to 'the costs associated with lost or <u>impaired</u> <u>ability</u> to work or to engage in leisure activities due to <u>morbidity</u> and <u>lost economic productivity</u> due to <u>death</u>.

غیر ملموسة <u>3. Intangibles</u>

These relate to the **distress**, **suffering**, **anxiety** and impact on **quality of life** (QOL) resulting from illness and poor health and their treatments

غير ملموسة An intangible good is a good that does not have a physical

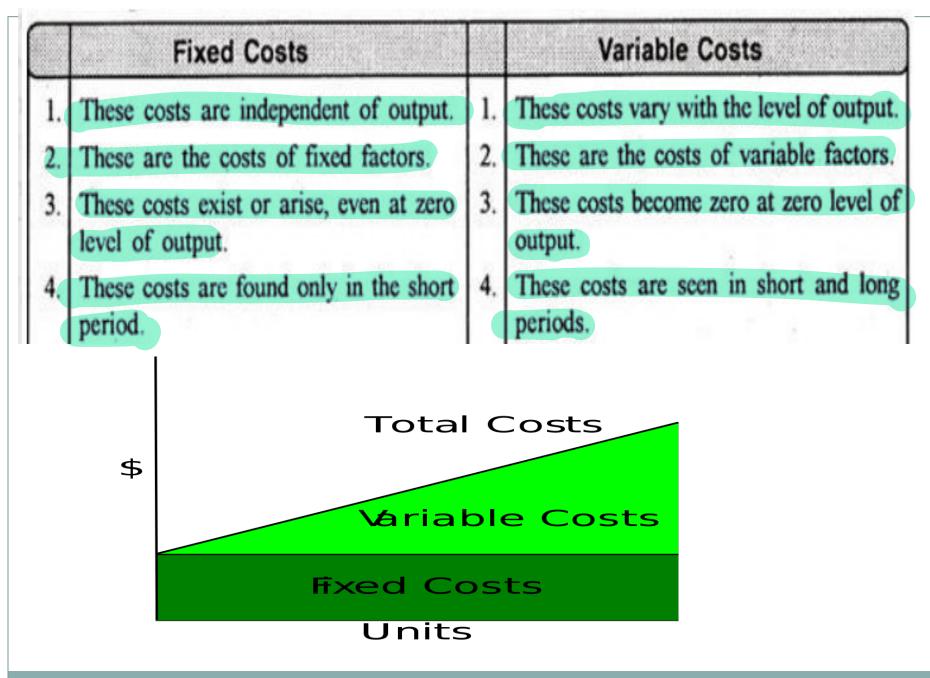
nature, as opposed to a physical good (an object). Digital goods such as downloadable music, mobile apps or virtual goods used in virtual economies are all examples of intangible goods.

(These are the things that have to be experienced to be

measured and valued)

Fixed cost VS Variable cost

	Fixed cost مصاريف ثابتة	Variable cost مصاريف متغيرة
Definition ☆	Cost of production, which does not vary \checkmark with time, or with size of production (output) over time	Cost of production, which varies with time and size of production (output).
Examples	 Cost of building Fixed cadre; Worker salaries & benefits. 	 Worker supplies (e.g. gloves) Patient care supplies Paper Food Lab supplies Medications



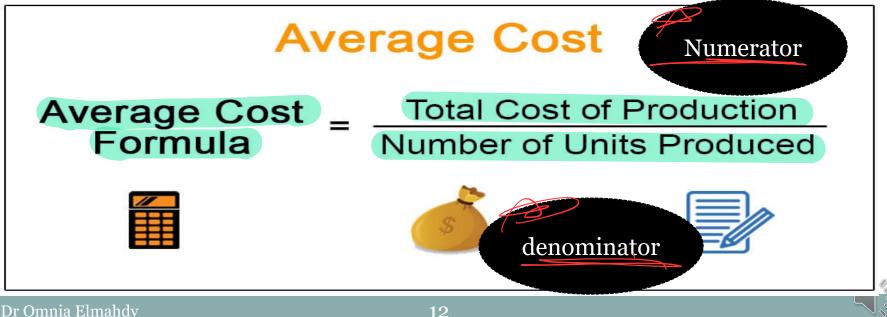
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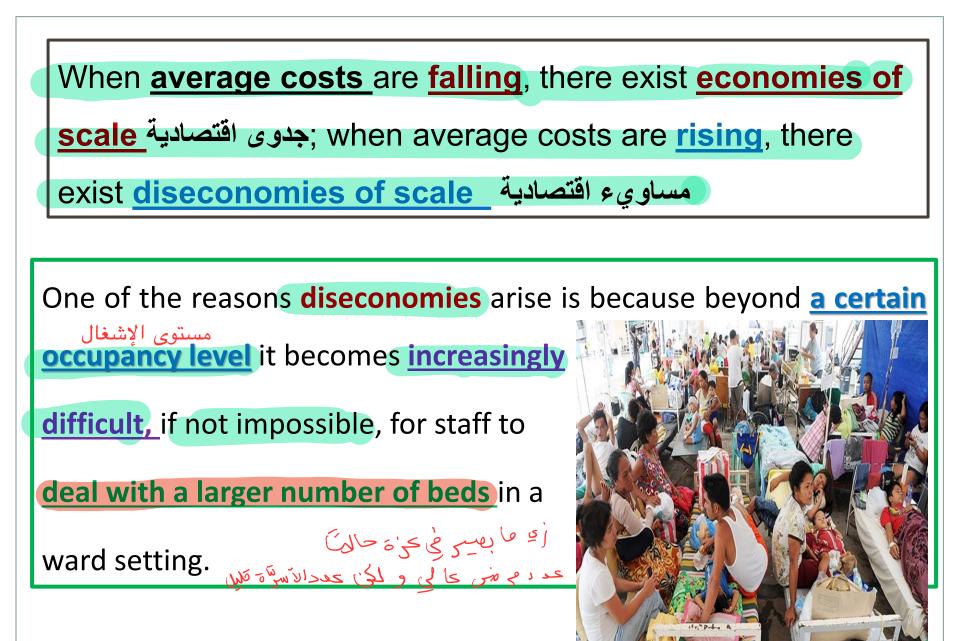


Average cost:

Is the total cost divided by the number of units

provided or produced.





Medical Care Cost

Opportunity cost:

Implications of Opportunity Cost:

1. Optimal service planning

OPPORTUNITY COST IS WHAT A PERSON SACRIFICES WHEN THEY CHOOSE ONE OPTION OVER ANOTHER

 Deciding to <u>do A</u> implies deciding <u>not to do B</u>, i.e. value of benefits from A>B.

Opportunity Cost =

شو الآهيالي بفڪي فيه What One Sacrifice

What One Gain

Health economists stress the importance of value unlike accountants who are just interested in money. When budgets are limited, resources invested into one area will be at the expense of a loss of opportunity in another and resources should be valued in terms of this lost opportunity the opportunity cost.



Opportunity Cost

[,ä-pər-'tü-nə-tē 'kost]

The potential benefits that an individual, investor, or business misses out on when choosing one alternative over another.



Medical Care Cost

التكلفة الافتراضية

Fiction cost:

Value of **production lost** due to <u>time</u> needed to find a <u>replacement worker</u> and <u>restore production</u> to a previous level.

- What does it cost to the economy if a worker **misses a day of work** to go to the doctor?
- What if a **sick person can go back** to work what is the gain to economy?
- Use the friction cost to <u>value lost time from paid</u>
 work.

Medical Care Cost

Marginal cost:

This is the **cost of producing <u>one extra unit</u>**, or in health care terms, the <u>cost of delivering one extra item of</u> <u>services</u> (treating one extra case, vaccinating one extra child and so on).



Marginal Cost

['märj-nəl 'köst]

The change in total production cost that comes from making or producing one additional unit.

Marginal cost or average cost?



لَحْد ہے

For example, in a comparison of <u>two anaesthetic programmes</u> that require different types of infrastructure, <u>average costs</u> are recommended because the fixed cost element would be ignored by the use of marginal cost.

المسكنات، However, when the choice is between <u>two or more analgesics</u>, the use of <u>marginal cost</u> rather than average would be more appropriate.



المكتسبة

These costs are incurred when <u>major assets</u> رأس المال are acquired – the buildings, the equipment, etc.

- Capital costs are not merely the <u>sum actually paid</u> for their acquisition and the <u>interest payments</u> on any <u>loans</u> used to fund such purchases.
 تكاليف رأس المال ليست مجرد المبلغ المدفوع فعليا لاقتنائها ومدفو عات الفائدة على أي قروض تستخدم لتمويل مثل هذه المشتريات
- Account also has to be taken of the <u>opportunity cost</u> of using such assets in one particular way, thereby depriving them of being used elsewhere.

ويجب أيضًا أن تؤخذ في الاعتبار تكلفة الفرصة البديلة لاستخدام هذه الأصول بطريقة معينة، وبالتالي حرمانها من استخدامها في مكان آخر



The money that government spends on developing buildings, machinery, equipment, schools, and other infrastructure is known as capital expenditure.

