

Objectives

Sources of data in epidemiology

Understand methods of assessments of frequency of diseases

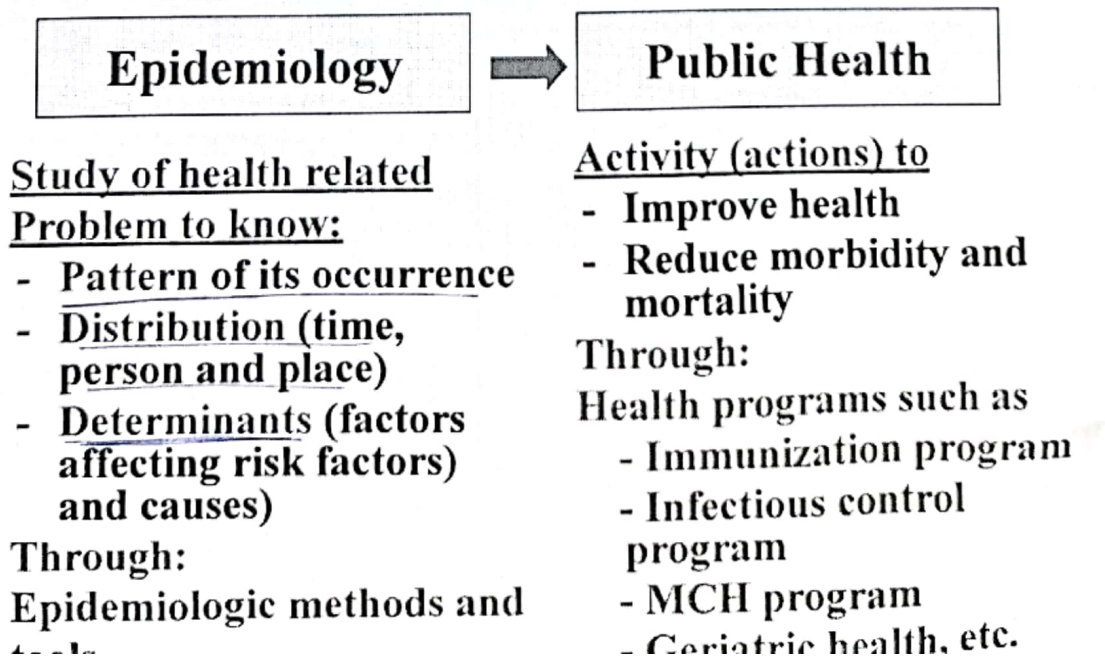
Indicators

- * groups not individuals
- * Study the causes → plans & strategies.
- * ← (الفرجة كالبية) collecting data on periodic intervals & continuously
- * depending on patterns & trends of numbers.
↳ (Bar chart... etc)

* instead of Disease = Event

Epidemiology and Public Health

(preventive medicine) both.



Sources of Data in Epidemiology

* Sources that have all data → ① Health units
② Health centers.

Birth and Death Certificates

Birth Certificate
This Certifies That

_____ (Name)
was born to

_____ (Mother) and _____ (Father)

on _____ (Date) at _____ (Time)

weight _____ (Weight) length _____ (Length)

sex _____ (Sex)

at _____ (Location)

in _____ (City) _____ (State)

_____ (Signed) _____ (Signed)

State of West Virginia County of Hancock, W.V.

Death Certificate

_____ (Name)
died on _____ (Date) at _____ (Time)

at _____ (Location)

in _____ (City) _____ (State)

_____ (Signed) _____ (Signed)

* Causes of death

* To know the most ~~count~~ count problems (Depend on statistics)

Patient Record

The screenshot shows a software window titled "filemed" with a menu bar (File, Edit, Tools, Appointments, Help, License) and a toolbar. A sidebar on the left contains options: New Patient, Demographics, Clinical Chart, Images, Network Configuration, Export Database, Backup, and Exit. The main area is titled "Demographics" and contains the following fields:

- Last Name, Maiden: Watts
- First Name, MI: Jennifer A
- Records#: 0000001
- Social Security #: 23784598
- D.O.B.: 03/08/1967
- Current age: 39 y.
- Sex: F
- Marital St.: MAR
- Occupation: Teacher
- Nationality: American
- Insurance/Coverage: Blue Cross/Blue Shield
- Insurance ID: 47015879
- Address: 7235 SW 48th St, Ft. Miami, FL 33155
- Phone: 305-666-5599
- Fax: 305-666-5560
- Mobile/Pager: 305-666-5015
- Email: jenwatts@uol.net
- Referring Physician: Dr. W. Garland
- Attending Physician: Dr. Herman Stewart
- Date of First Visit: 10/15/2004

Diagnoses: 11/25/2004: Allergic rhinitis | Nasal polyps | Acute sinusitis.

Buttons at the bottom: Remove Pt., Print, Save, Cancel.

Footer: Patient: Watts, Jennifer A; User: Administrator; Version 5.1 - Multiauser

Example: How to know if there's Domestic violence in Jordan? - by surveys.

Questionnaire

A. About you and your teaching

- Your gender: Male Female
- Your teaching experience:

	< 1 year	1-5 years	> 5 years
a) How long have you been teaching?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) How long have you been in your current post?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- How much time do you spend in teaching and preparation in English Language at P7 in a typical week?

	< 1 hour	1-5 hours	6-10 hours	> 10 hours
a) Teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- On professional development:

a) Have you had any professional development in English Language in the last two years?	Yes	No
b) Are you satisfied with the number of professional development opportunities available to you in English Language?	<input type="checkbox"/>	<input type="checkbox"/>
- Please indicate your opinion about your pupils' motivation to learn, behaviour and lesson attendance (in general):

	Very good	Good	Poor	Very poor
a) Motivation to learn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Behaviour in class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Lesson attendance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- Please indicate how you use 5-14 National Assessments with your P7 pupils:

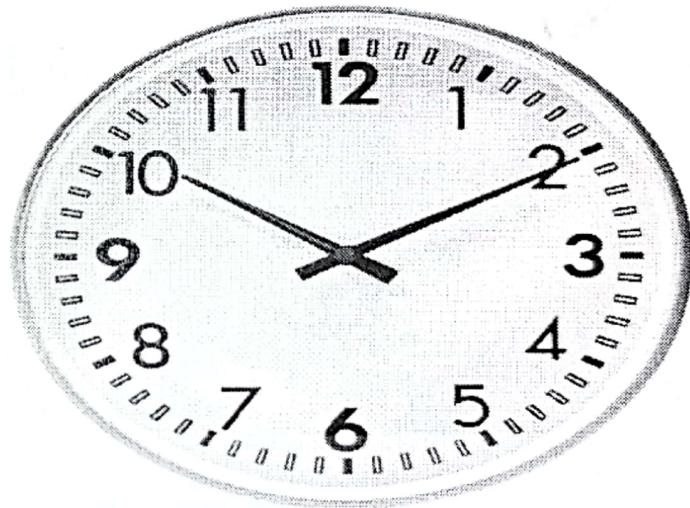
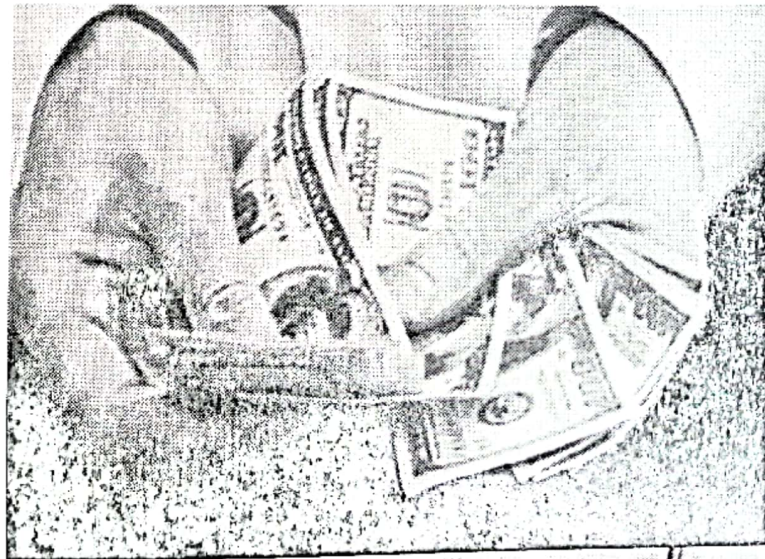
	Always	Sometimes	Never
a) With individual pupils when you judge they have attained a level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) With groups of pupils when you judge they have attained a level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) With the whole class, when you judge most have attained a level, irrespective of time of year	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) With the whole class at set times each year	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- If you use National Assessments with your P7 pupils, for what proportion of pupils would you say the test results and your own judgments coincide?

	Fewer than half	Over half	The majority	Almost all
a) Reading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Aispuri, F	86	82	98	12	174	176	170	-4	282	130	144	-138	
Balcazar, M	95	85	78	-17	219	195	185	-34	199	138	140	-59	
Cano, D*	149	107	105	-44	264	268	269	5	327	540	730	403	
Jimenez, R	107	88	97	-10	268	164	177	-91	540	339	344	-196	
Average	109	91	95	-15	231	201	200	-31	337	292	340	3	
				IMPROVED BY	13.5%			IMPROVED BY	13.4%			REDUCED BY	0.7%

*Patient Cano, D, stopped taking the formula after 25 days due to a misunderstanding of the protocol. His follow up lab work was done on day 38, and began taking the formula again.

Data Collection → Time consuming, costs money & effort.



DATA collection
SHOULD
be taken seriously (*complete
& valid)

x

SAMPLE

y

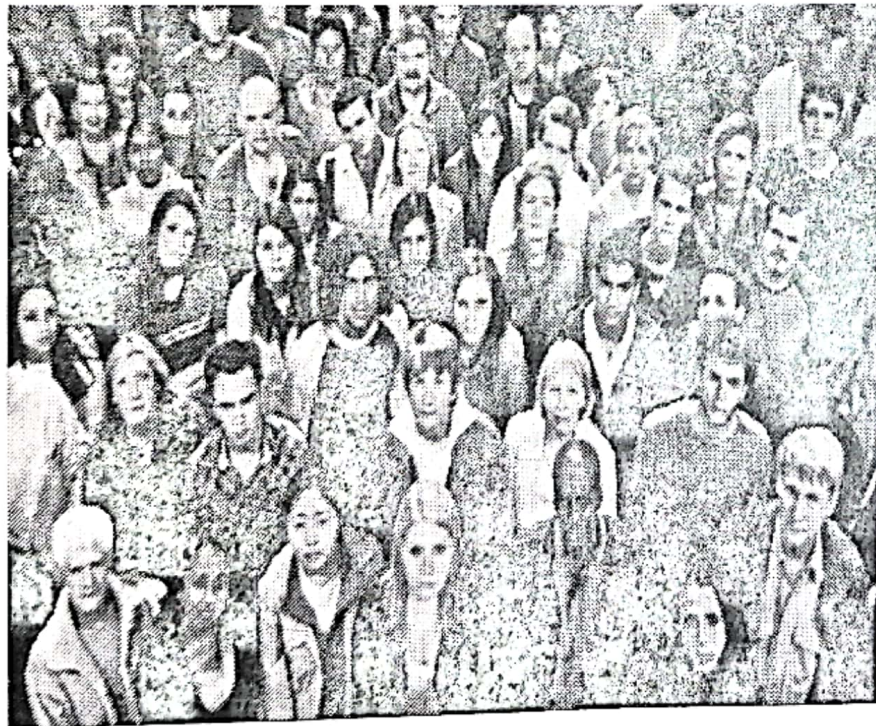
Population

* Sample should represent Population.

Uses of Indicators

1- **Simplify** information about complex phenomena in order to **improve communication**

** in order the community to help in preventing disease*



VALIDITY

- Data should measure what is intended to be measured
 - * exact instrument used to collect this data
 - ↳ ex. Question.