28th Introductory Course on Field Epidemiology and Biostatistics
4-29 June 2007, Bureau of Epidemiology, DDC/MOPH/THA

Epidemiology and Public Health

Dr. Somchai Peerapakorn

WHO Thailand

somchai@searo.who.int

4 June 2007

นายแพทย์สมชาย พีระปกรณ์

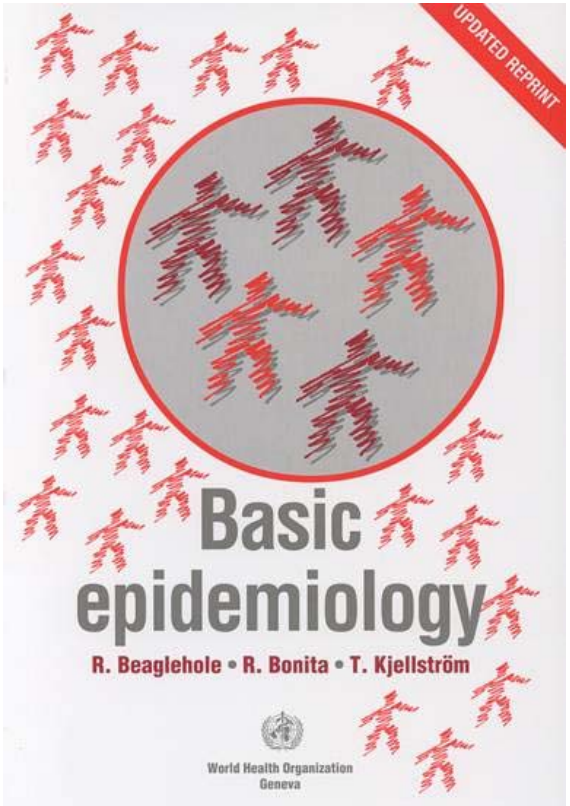
National Professional Officer (Programme)

สำนักงานผู้แทนองค์การอนามัยโลกประจำประเทศไทย

4 มิถุนายน 2550; 11.00-12.00

Points:

- *Know more about*
  - *Epidemiology*
  - *Public Health*
  - *Health*
- *How those words link to us as professionals*



The original map drawn by Dr. John Snow (1813-1858), a British physician who is one of the founders of medical epidemiology, showing cases of cholera in the London epidemics of 1854, clustered around the locations of water pumps.

http://en.wikipedia.org/wiki/Epidemiology

Epidemiology….(1)

- …is the field of medicine concerned with the determination of causes, incidence, and characteristic behavior of disease outbreaks affecting human populations.

http://healthweb.org/browse.cfm?categoryid=1502

- …is the study of how often diseases occur in different groups of people and why.

http://www.bmj.com/epidem/epid.1.html

Epidemiology….(2)

- …is the study of “4 Ds” – Distribution, Dynamics, Determinants of Diseases - among human populations

- …is the study of factors affecting the health and illness of populations, and serves as the foundation and logic of interventions made in the interest of public health and preventive medicine.

http://en.wikipedia.org/wiki/Epidemiology

- etc.

Epidemiology….(3)

- **All findings must relate to a defined population**
  - population at risk.
  - Target population → study population → study sample
- **Oriented to groups rather than individuals**
  - quality of data
- **Conclusions are based on comparisons**
  - comparing disease rates in groups with differing levels of exposure

Public Health…(1)

- …is the science and art of preventing disease, prolonging life and promoting health through the organised efforts and informed choices of society, organisations, public and private, communities and individuals.

  Winslow from Modern Medicine in 1920

- …refers to all organized measures (whether public or private) to prevent disease, promote health, and prolong life among the population as a whole.

  http://www.who.int/trade/glossary/story076/en/

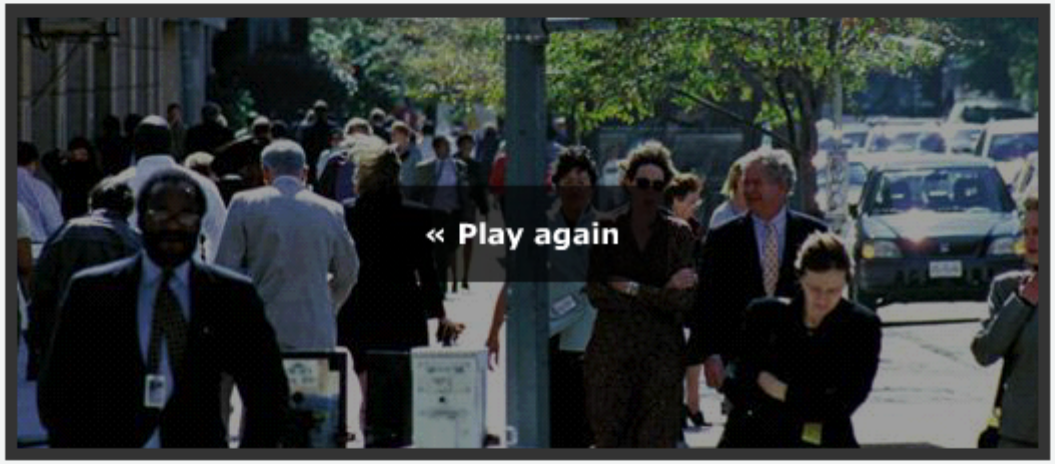
1. What is epidemiology? | Epidemiology - Wikipedia, th... | Public health - Wikipedia, th... | What is Public Health? | WHO | World Health Organ

What is Public Health?

About this Project | Contact Us

What is Public Health? | Impact of Public Health | Careers in Public Health | Resources | FAQs

What is Public Health?



Day in the Life

Public Health Quiz

Public Health is the science of protecting and improving the health of communities through education, promotion of healthy lifestyles, and research for disease and injury prevention. Public health involves the application of many different disciplines including:

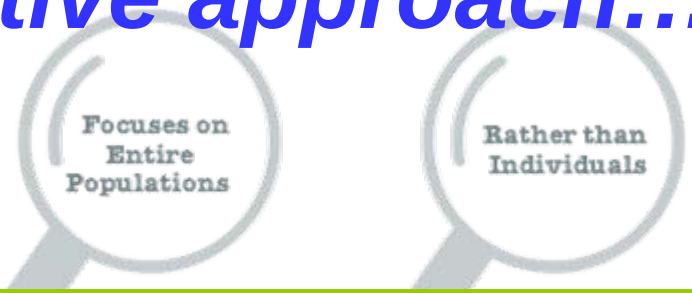
"Health care matters to all of us some of the time, public health matters to all of us all of the time"

C. Everett Koop

start | Documen... | What is P... | Microsoft... | Microsoft... | for nakor... | About W... | EN

Public Health…(2)

- *Protect and improve…*
- *Focuses on entire populations rather than individuals…*
- *Proactive, preventive approach…*



Public Health regards the community as its patient

http://www.whatispublichealth.org/what/index.html

“Health” is…

Definition of Health

Health is a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity.

Conclusion:

…Professionals need to study and use the principles and methods of Epidemiology to guide essential Public Health policies and actions, targeting to achieve Health for all the people.

1. What is epidemiology? | Epidemiology - Wikipedia, th... | Public health - Wikipedia, th... | What is Public Health? | WHO | World Health Or

عربي | 中文 | English | Français | Русский | Español

World Health Organization

Search

Home
About WHO
Countries
Health topics
Publications
Research tools
WHO sites

Fact file
Tobacco and second-hand smoke

FAQs
What is XDR-TB?

Urgent need to make indoor places 100% smoke-free

31 May 2007 -- Exposure to second-hand tobacco smoke causes death, disease and disability. As many as 200 000 workers die every year due to exposure to second-hand smoke at work and almost half of the world's children breathe tobacco smoke. On World No Tobacco Day, WHO

AVIAN INFLUENZA

Full coverage

DISEASE OUTBREAKS

Avian influenza
Situation in Indonesia - update 8
Full text

Extensively Drug-Resistant Tuberculosis (XDR TB)
United States of America
Full text

Disease outbreak news

EMERGENCIES

www.who.int

Thank you…

World No Tobacco Day 2007

European video showcase on tobacco control

WHO Constitution, and Executive Board and World Health Assembly documents

International travel and health
Publication on vaccination

NEWS RELEASES

30 May 2007
New guidance issued on HIV testing, counselling
Full text

FEATURED SITES

Public Health, Innovation and Intellectual Property
Working towards a global strategy and plan of action