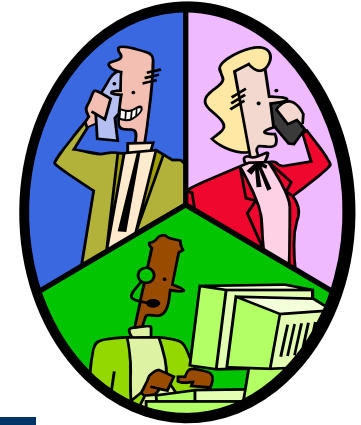


What is Public Health?

Jesse Huang, MD, MHPE, MPH, MBA
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Peking Union Medical College
Email: pumcjesse@yahoo.com.cn

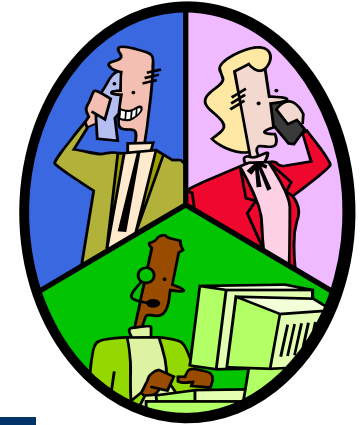
Learning Objectives



By the end of the class, you should be able to

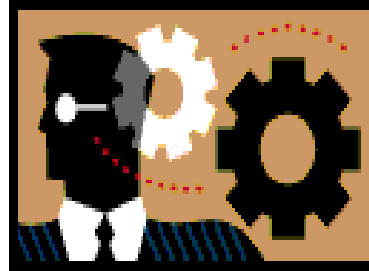
- define public health
- know public health's value
- understand the governments' roles and responsibilities in public health

I will discuss



- What is public health?
- What is public health's value?
- What should the governments do for public health?

What is public health?



What is public health?

Everyday 上管天
Everywhere 下管地
Everybody 中间管空气

Is that true?





公共卫生间

TOILET



M.

F.

D.



20 10:03 PM

What is public health?

- Environmental health
- Restroom







星光宝

安全避孕套

VENUS MACHINE

专家忠告：使用安全套
是预防和控制孕的最佳方法

包我健康 都快乐

D91

19 2:06 AM



What is public health?

- **Environmental health**
- **Restroom**
- **Vaccination**
- **Family planning**
- **Health education**



与艾滋病作斗争的“121”联合行动计划 捐赠暨表彰大会

二〇〇三年十二月一日

主办单位
121联合行动计划组委会
中国预防性病艾滋病基金会

30 9:05 PM



What is public health?

- Environmental health
- Vaccination
- Family planning
- Health education
- Disease control and prevention
- Food safety and air pollution
- Government business
- A social course
- A health-related profession
-











Photocome



Photocome



xinhua





Public Health

Everyday
Everywhere
Everybody

**C Everett Koop,
Former U.S. Surgeon General**

**Health care is vital to all of
us some of time, but public
Health is vital to all of us all
of the time.**

What is public health?

Public health is “**organized community efforts** aimed at the prevention of disease and promotion of health. It links many disciplines and rests upon the scientific core of **epidemiology**”

- The future of public health, Institute of Medicine, 1988

What is public health?

The mission of public health is defined as “the fulfillment of society’s interest in assuring the conditions in which people can be healthy.”

- The future of public health, Institute of Medicine, 1988

What is public health?

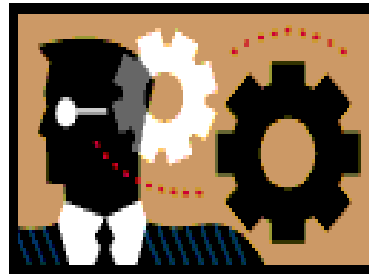
The science and art of preventing disease, prolong life and promoting health and efficiency through organized community effort.

Winslow, CEA, 1920

Public Health

上管天
下管地
中间管空气

What is public health's value?



**Let's recall what had
happened during April
and May of 2003...**



May 3, 2003, Changan Road, Beijing













北京市公安局信息通信处小汤山疗养院图像监控系统
Video Surveillance System of Xiao Tang Shan Sanatorium
The Information Communication Department of Beijing Municipal Public Security Bureau





中国内地传染性非典肺炎地区传播示意图



SARS outbreak in Beijing

- **Hardly see anyone in Beijing's street**
- **Hardly see any car in highway**
- **Beijing's airport was empty**
- **Five star hotels were empty**
- **Busy capital now became a quiet place**



SARS taught us...

- **Life is precious**
- **High buildings and highway would be useless without public health's protection**



美联社报道

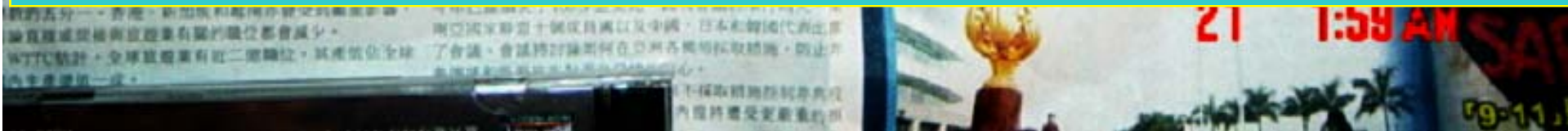
2003年5月17日 (癸未年四月十七) 星期六

重要新聞

一場SARS等於五次「9·11」

One SARS

equal to five "911"

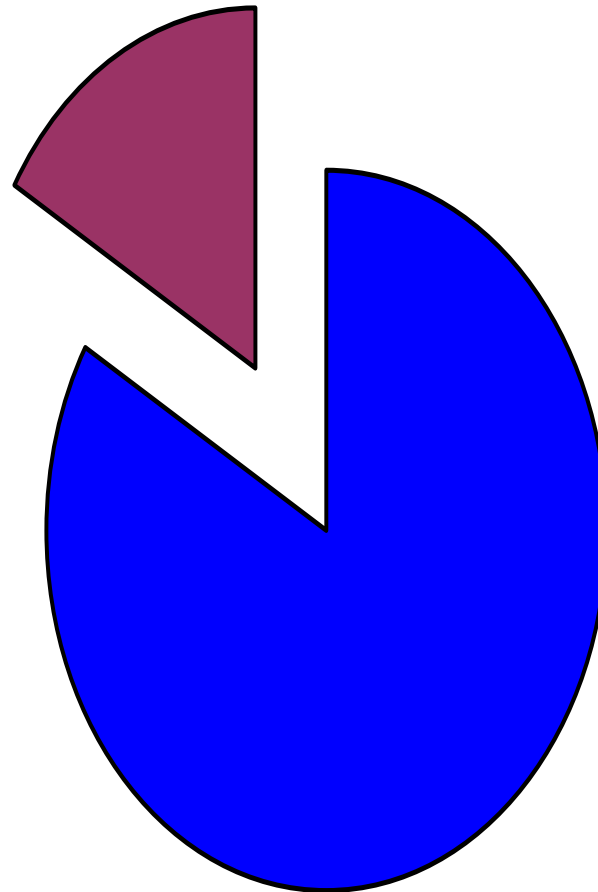


Imaging 50 years from now...

- Life expectancy is 37 years more and infant mortality rate are 1/7 of today's rate
- **Average life span = 108+ years**
- **400,000 of 500,000 dead infant today would survive**
- Now life expectancy about 71 years, infant mortality 19/1,000
- **This is what has happened in China during the past 50 years**

Contribution to 30 years of life expectancy,
USA, 1900-1999

Medical Care
5 Ys



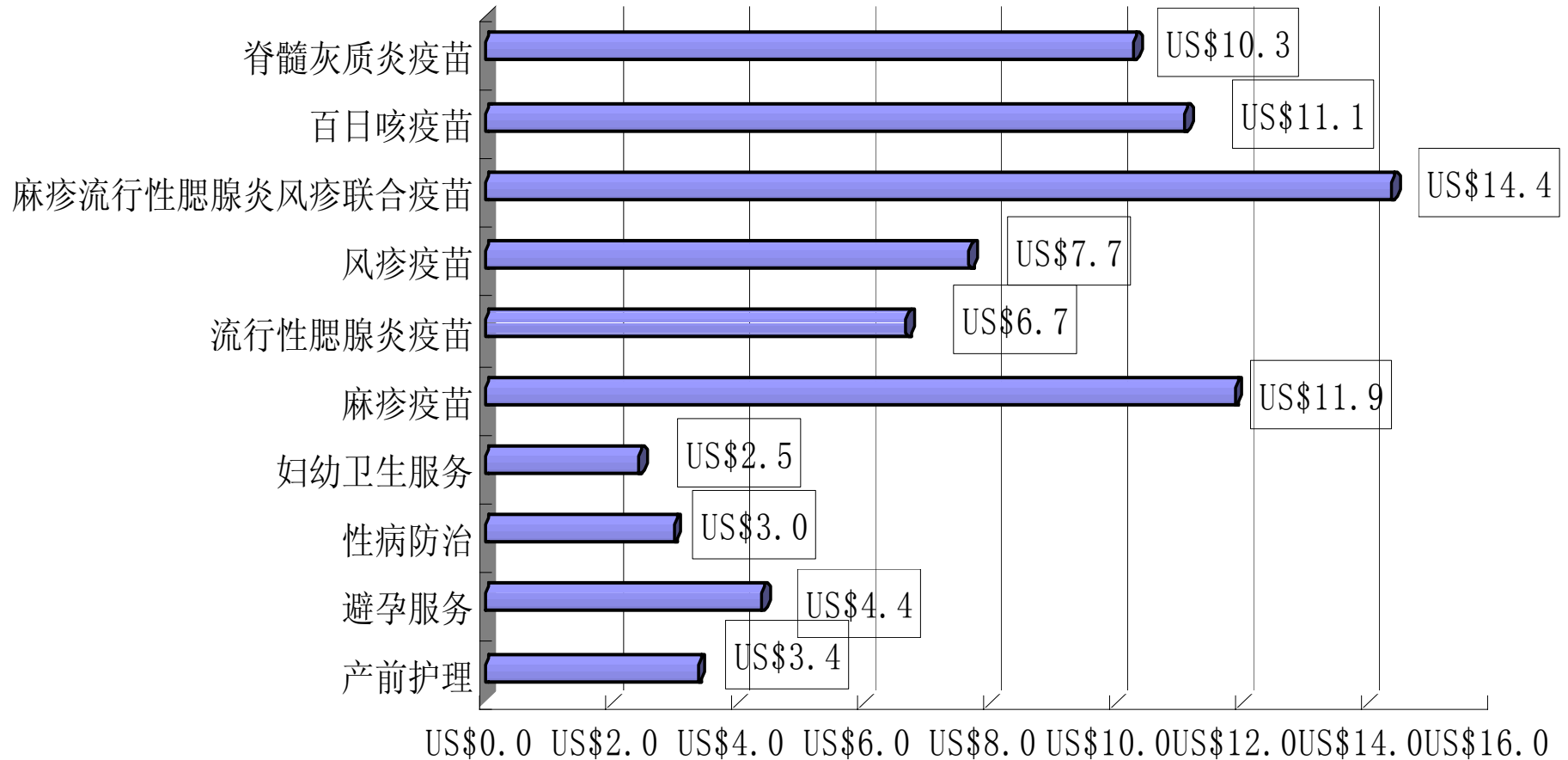
Public Health
25 Ys

Public health also has monetary value



每美元公共卫生服务所节省的美元数

US \$ saved for every \$ spent in public health



Public health's value

**We will
never over-estimate
public health's value**

in improving our health during the last
50 years

- Public health has monetary value

What should the governments do for public health?



WHAT DOES PUBLIC HEALTH DO?

- Public Health
 - Preventing Disease
 - Populations
 - Process, Metrics and Analysis
 - Environmental Health
 - Health Policy/Finance
- Clinical Medicine
 - Treating Illness
 - Individuals
 - “Great Moments in Medicine”

Public Health

Everyday, Everywhere, Everybody
Organized community effort
The governments' roles and responsibilities: Limited Inc.

Core Public Health Functions

- **Assessment**
- **Policy development**
- **Assurance**

– Source: Baker, E.L., Melton, R.J., Stange, P. V., et al. 1994. Health Reform and the Health of the Public: Forging Community Health Partnerships. *Journal of the American Medical Association* 272:1276-1282.


Essential Public Health Services

- (1) **Monitor** health status to identify and solve community health problems;
- (2) **Diagnose and investigate** health problems and health hazards in the community;
- (3) **Inform, educate, and empower** people about health issues;
- (4) **Mobilize community** partnerships and action to identify and solve health problems;
- (5) **Develop policies and plans** that support individual and community health efforts;

Source:same as previous one


Essential Public Health Services

- 6) **Enforce laws and regulations** that protect health and assure safety;
- (7) **Link** people to needed personal health services **and assure** provision of health care when otherwise unavailable;
- (8) **Assure** a competent workforce-public health and personal care;
- (9) **Evaluate** effectiveness, accessibility, and quality of personal and population-based health services; and
- (10) **Research** for new insights and innovative solutions to health problems.



**“The GNP tells
you everything about a
country that is not
important.**

**It does not inform
about the beauty of the
countryside, the joy and
value of its music and
art --- or the health of its
children...”**



Margaret Catley-Carlson,

UN Children's Summit, 1990



Public Health Is Health of Public

**Public Health: everyday,
everywhere, everybody**



Thank You
Q & A