







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

Social health:

 Includes the concepts of social support, the ability to fulfill a social role, and political and social reform

http://www.who.int/en/

What is Public Health?

"Public health is the science and art of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, public and private, communities and individuals"

-Winslow, 1920

Focus on prevention and populations



Determinants of Disease

- 1. Behavior
- 2. Infections
- 3. Genetics
- 4. Geography
- 5. Environment
- 6. Medical care
- 7. Socio-economic and cultural

Determinants of Disease Asthma Example

- **1. Behavior** Cigarette smoking
- 2. Infections Infections precipitate asthma
- 3. Genetics Genetic factors predispose individuals to childhood asthma
- 4. Geography More common in areas with high levels of naturally occurring allergens due to flowering plants
- 5. Environment Indoor pollution, cigarette smoke, cockroaches, mold, pet dander
- 6. Medical care Medical care affects course
- 7. Socio-economic-cultural Air quality, allergens, access to care correlate with socio-economic-cultural factors

Most Common Causes of Death and "Actual" Causes

Nearly half of all US deaths related to 9 potentially preventable causes.

Most Common Causes of Death US, 2008

- 1. Disease of the heart
- 2. Cancers
- 3. Chronic lower respiratory diseases
- 4. Stroke
- 5. Unintentional injury
- 6. Alzheimer's disease
- 7. Diabetes mellitus
- 8. Influenza and pneumonia
- 9. Nephritis, etc.
- 10. Septicemia

Actual Causes of Death US, 2000

- 1. Tobacco
- 2. Poor diet, physical inactivity
- 3. Alcohol consumption
- 4. Microbial agents
- 5. Toxic agents
- 6. Motor vehicles
- 7. Firearms
- 8. Sexual behavior
- 9. Illicit drug use

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What is Prevention?

 "The planning for, and taking of, action to forestall the onset of a disease or other health problem before the occurrence of undesirable health events."

– McKenzie, Pringer, & Kotecki, 2012

• We usually think of this in three levels

Levels of Prevention

Primary

- Preventive measures that forestall the onset of illness or injury during the pathogenesis period

Secondary

 Preventive measures that lead to early diagnosis and prompt treatment of a disease, illness, or injury to limit disability

Tertiary

 Preventive measures aimed at rehabilitation following significant pathogenesis







What do we mean by Intervention?

"To come or occur between two things, events, or points in time; to come in or between so as to hinder or alter an action"

- Anderson et al., 2002

"An activity or activities designed to create change in people"

– McKenzie, Pringer, & Kotecki, 2012

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What is Health Promotion?

"Any planned combination of educational, political, environmental, regulatory, or organizational mechanisms that support actions and conditions of living conducive to the health of individuals, groups, and communities"

- Joint Committee, 2012



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Prevention Strategy: Health Education

"Messages of any type that attempt to inform and/or persuade a target to behave **voluntarily** in a particular manner but do not provide, on their own, direct and/or immediate reward or punishment"

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Prevention Strategy: Social Marketing

Social Marketing:

 "Attempts to manage behavior by offering reinforcing incentives and/or consequences in an environment that invites voluntary exchange"







When to Use Each Strategy					
Easy to see/ convey benefits	Need to manage/show benefits	Can't see/ convey benefits			
Education No or weak competition	Marketing Passive-active competition	Policy Unmanageable competition			
PRONE to Behave as Desired		RESISTANT to Behave as Desired			
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How is Culture Related to Health?

- Social practices
- Response to symptoms
- Types of acceptable interventions
- Response to disease and intervention

How Might Religion be Related to Health?

- Social practices Circumcision, contraceptive use, alcohol use, tobacco use
- Response to symptoms Some reject medical care as a response to symptoms
- Types of acceptable interventions Prohibitions against blood transfusions; attitudes towards stem cell research, abortion, end-of-life treatments
- Response to disease and intervention Role of prayer as an intervention to alter outcome

V. PUBLIC HEALTH EXAMPLES

Examples of Public Health					
Interventions					

Type of Intervention	Target Health Problem	Specific Intervention	Level of Prevention	Level of intervention	
Education	Sudden Infant Death (SIDS)	Babies on Backs	Primary	Provider, family, individual	
Social Marketing	Cancer	Tobacco Truth Campaign	Primary	Community	
Policy	Lung Cancer	Тоbассо Тах	Primary	Environment	
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