

Population Health Management

Population Health Colloquium
Tamar Klaiman, PhD, MPH
Assistant Professor
Jefferson School of Population Health
February 27, 2012

Learning Objectives

1. Define the characteristics of the population health perspective.
2. Understand the determinants of health.
3. Explain at least two methods for managing population health.

Course Overview

- Definition of Population Health
- Health Education, Health Promotion, and Disease Prevention
- Strategies for Population Health Management

Components of Health

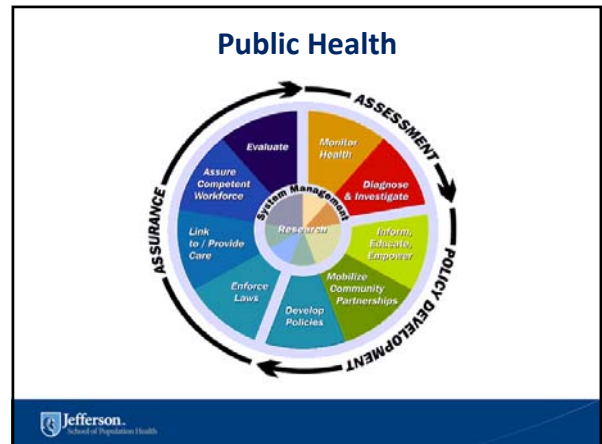
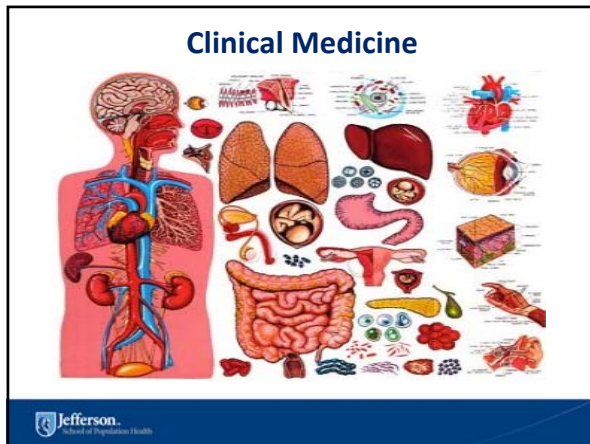
The World Health Organization defines health as "a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity."

In addition to the contributions of our individual genetic predispositions to disease, health is the result of:

- Our behaviors,
- The environment and the community in which we live,
- The public and health policies and practices of our government, and
- The clinical care we receive.

These four aspects interact with each other in a complex web of cause and effect, and much of this interaction is just beginning to be fully understood. Understanding these interactions is vital if we are to create the healthy outcomes we desire, including a long, disease-free, robust life for all individuals regardless of race, gender or socio-economic status. This report focuses on these determinants and on the overall health outcomes we desire.





Traditional Gaps in Focus

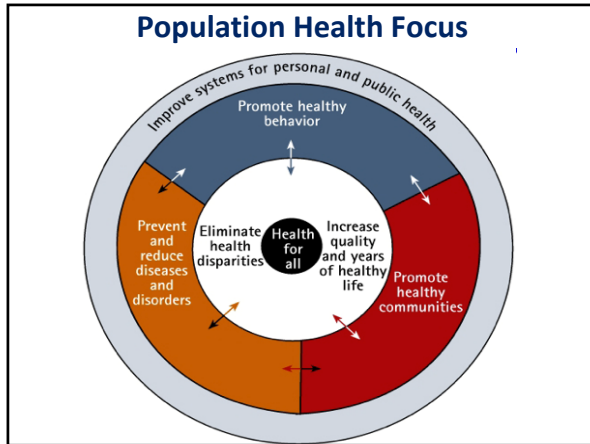
<u>Clinical Medicine</u>	<u>Public Health</u>
<ul style="list-style-type: none"> • Clinicians play primary role • Focus on individual health • Treatment of disease • “Art” of medicine 	<ul style="list-style-type: none"> • Responsibility for health is diffuse • Focus on health of communities • Prevention of disease • Evidence-based practice

Jefferson.
School of Population Health

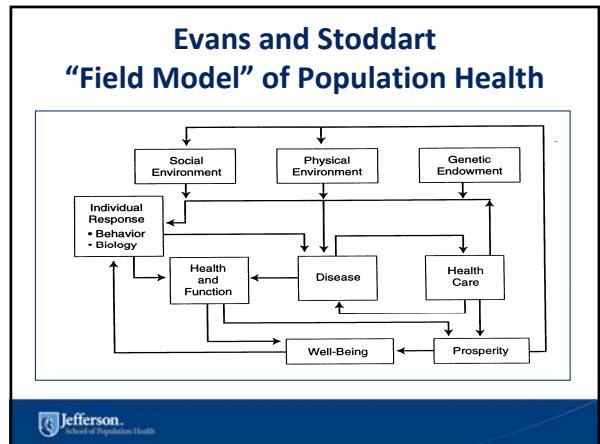
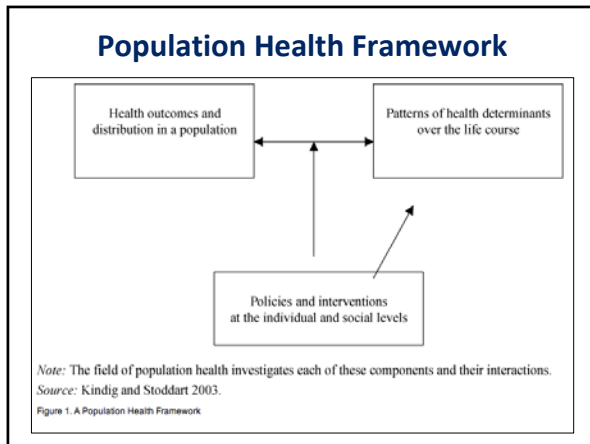
Definition of Population Health

The distribution of health outcomes within a population, the determinants that influence this distribution, and the policies and interventions that impact these determinants.

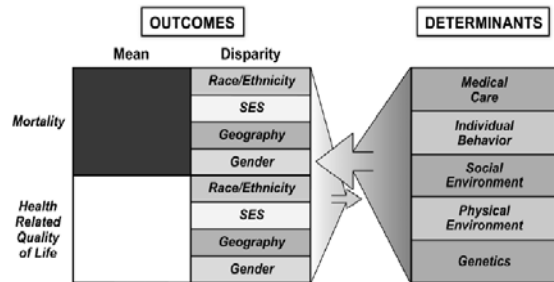
Jefferson.
School of Population Health



- ### Characteristics of the Population Health Perspective
- More than the sum of individual parts
 - More than a cross-sectional perspective
 - Broader array of the determinants of health than in traditional public health
 - Recognition that responsibility for health is diffuse
- Jefferson
School of Population Health



Kindig's Expanded Population Health Model



Course Overview

- Definition of Population Health
- **Health Education, Health Promotion, and Disease Prevention**
- Strategies for Population Health Management

Health Education

“Any combination of learning experiences designed to facilitate voluntary actions conducive to health.”

(Green & Kreuter, 1999)



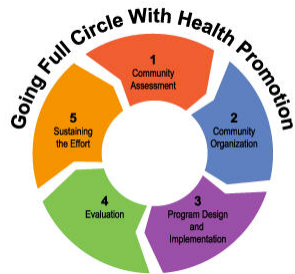
Health Promotion

“The combination of educational and ecological supports for actions and conditions of living conducive to health.”

(Green & Kreuter, 1999)



Health Promotion



Approaches to Health Promotion

- Medical Approach
- Behavioral Change Approach
- Empowerment Approach
- Social Change Model

Relationship of Health Education to Health Promotion

- Health Education...focus on individual
 - Giving individuals knowledge needed to make change
- Health Promotion...focus on supports for action
 - Educational and environmental
 - Emerged out of HE...How make healthier choices easier choices?
- Public health emerged from HP...focus on populations

Levels of Prevention

Level	Definition
Primary prevention	Primary prevention strategies intend to avoid the development of disease. Most population-based health promotion activities are primary preventive measures.
Secondary prevention	Secondary prevention strategies attempt to diagnose and treat an existing disease in its early stages before it results in significant morbidity
Tertiary prevention	These treatments aim to reduce the negative impact of established disease by restoring function and reducing disease-related complications.
Quaternary prevention	This term describes the set of health activities that mitigate or avoid the consequences of unnecessary or excessive interventions in the health system

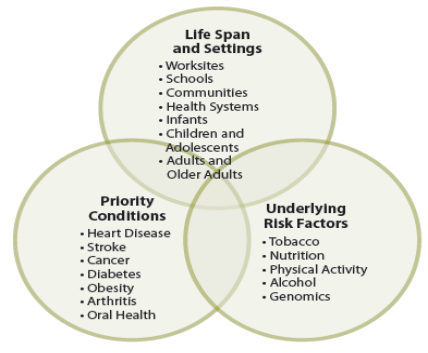
Assumptions of Health Promotion

- Health status can be changed
- Disease occurrence theories understood
- Appropriate prevention strategies developed for identified health problem
- Individual's health affected by many factors
- Changes in behavior will positively affect health status
- Responsibility for health changes behaviors

Top 5 Causes of Death for 2010

Cause of Death (ICD-10)	Number	Death Rate	2010 Age-Adjusted Death Rate
All Causes	2,465,932	798.7	746.2
Diseases of the Heart	595,444	192.9	178.5
Malignant Neoplasms	573,855	185.9	172.5
Chronic Lower Respiratory Diseases	137,789	44.6	42.1
Cerebrovascular Disease	129,180	41.8	39.0
Accidents (Unintentional Injuries)	118,043	38.2	37.1

Framework for Preventing Chronic Disease and Promoting Health



Course Overview

- Definition of Population Health
- Health Education, Health Promotion, and Disease Prevention
- **Strategies for Population Health Management**

Management of Population Health

- Epidemiological approach
- Emphasis on disease prevention/health promotion
- Systems focus (includes accountability)
- Establish/nurture partnerships

Lifestyle Management

- Health promotion to improve health through behavior change

- Education
- Motivation
- Training
- Marketing



Demand Management

- Self-care and triage support to help individuals manage their care and symptoms
- Goal: reduce perceived need and use of unnecessary services while improving health status
- Influences on demand:
 - Morbidity
 - Perceived need
 - Patient preferences
 - Non-health Motives
- Predicting Demand
 - Questionnaire-based health assessments
 - Claims-based data assessment



Strategies for Demand Management

- Health risk management
- Health plan and provider selection
- Symptomatic and urgent care controls
- Elective treatment choices
- Acute condition management
- End-of-life planning



Disease Management

- System of **coordinated** healthcare interventions and communications for populations with conditions in which self-care efforts are significant
- Supports practitioner-patient relationship and plan of care
- Emphasizes prevention of complications through EBM and patient empowerment
- Evaluates clinical, humanistic, and economic outcomes

(DMAA, 2002)



Continuous Improvement

- Standards of care set
- Protocols are developed and implemented to meet standards
- Outcomes measured
- Systems of care are improved



Catastrophic Care Management

- Infrequent and unpredictable, but account for a large percentage of health care costs
- Consistent with QI approaches to reduce variability in processes and outcomes
- Emerged from
 - Disease management companies
 - Insurance and reinsurance companies for better risk management

Characteristics of Catastrophic Care Management

- Immediate referral
- Development of a care plan
- Patient management expertise
- Individualized management
- Patient and program satisfaction



(DM Carve-outs, 1998)

Disability Management

- Work-related Disability
 - Injuries
 - Chronic Conditions
 - Mental and Behavioral Problems
 - Medical and Nonmedical Factors
- Disability Management Programs
 - Prevention
 - Early Intervention
 - Case Management
 - Transitional Work Programs
 - Ergonomics
 - Employee Assistance Programs
 - On-site Rehabilitation Programs
 - Absence Management



Learning Objectives

1. Define the characteristics of the population health perspective.
2. Understand the determinants of health.
3. Explain at least two methods for managing population health.

Questions?