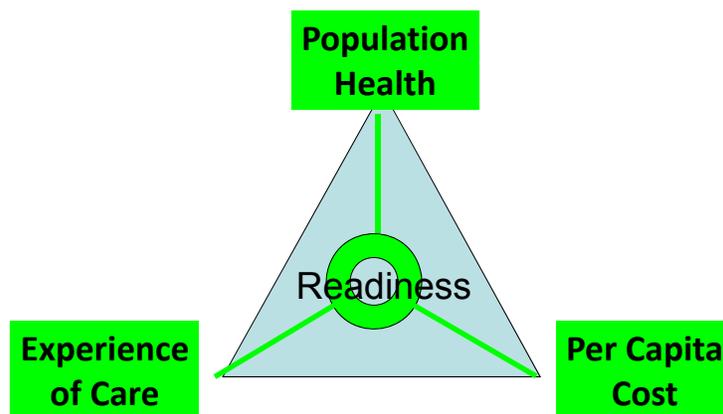

Population Health: How to measure it, How to improve It

*Matt Stiefel and Mike Dinneen
Adapted From IHI Presentation*

1



The Triple Aim



Potential Triple Aim Population Outcome Measures

Dimension	Measure
Population Health	1. Health Outcomes: -Mortality: Years of potential life lost; Life expectancy; Standardized mortality rates -Health/Functional Status: single question (e.g. from CDC HRQOL-4) or multi-domain (e.g. SF-12) Note: Healthy Life Expectancy (HLE) combines life expectancy and health status into a single measure, reflecting remaining years of life in good health
	2. Disease Burden: Incidence (yearly rate of onset, avg. age of onset) and/or prevalence of major chronic conditions
	3. Risk Status: composite health risk appraisal (HRA) score
Experience of Care	1. Standard questions from patient surveys, for example: -Global questions from US CAHPS or How's Your Health surveys -Experience questions from NHS World Class Commissioning or CareQuality Commission -Likelihood to recommend
	2. Set of measures based on key dimensions (e.g., US IOM Quality Chasm aims: Safe, Effective, Timely, Efficient, Equitable and Patient-centered)
Per Capita Cost	1. Total cost per member of the population per month
	2. Hospital and ED utilization rate

3

Four Questions

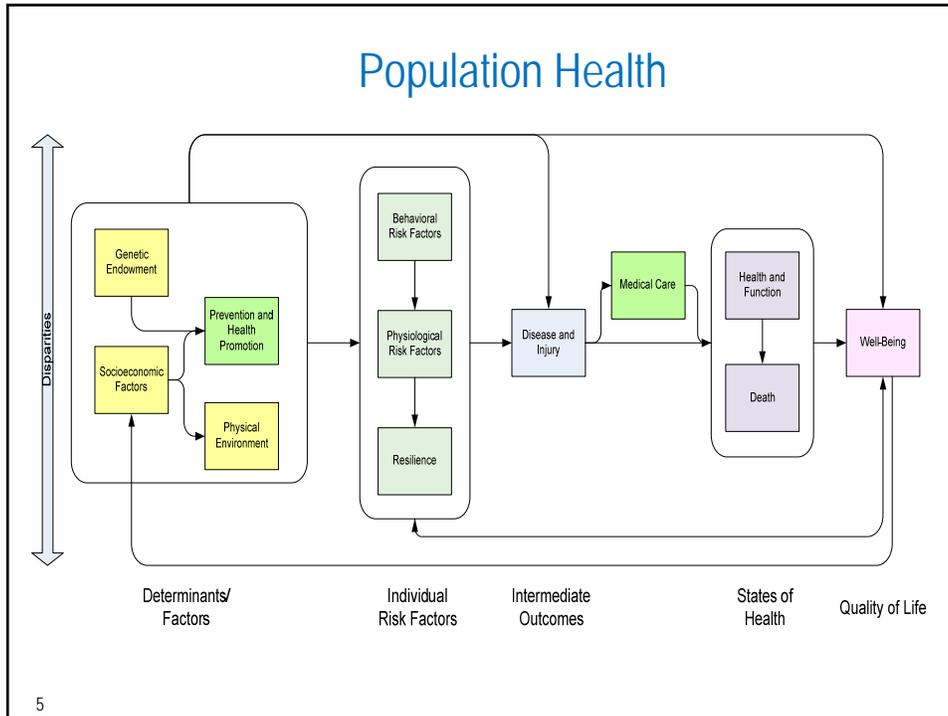
What is population health?

What influences it?

How do we measure it?

How do we improve it?

4



Population Health Measures

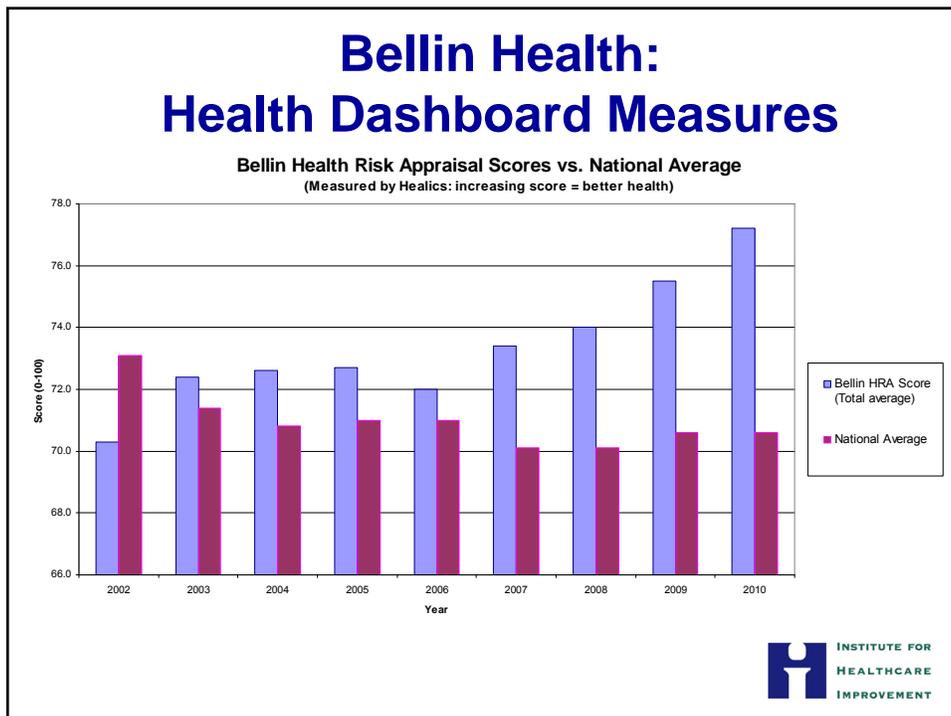
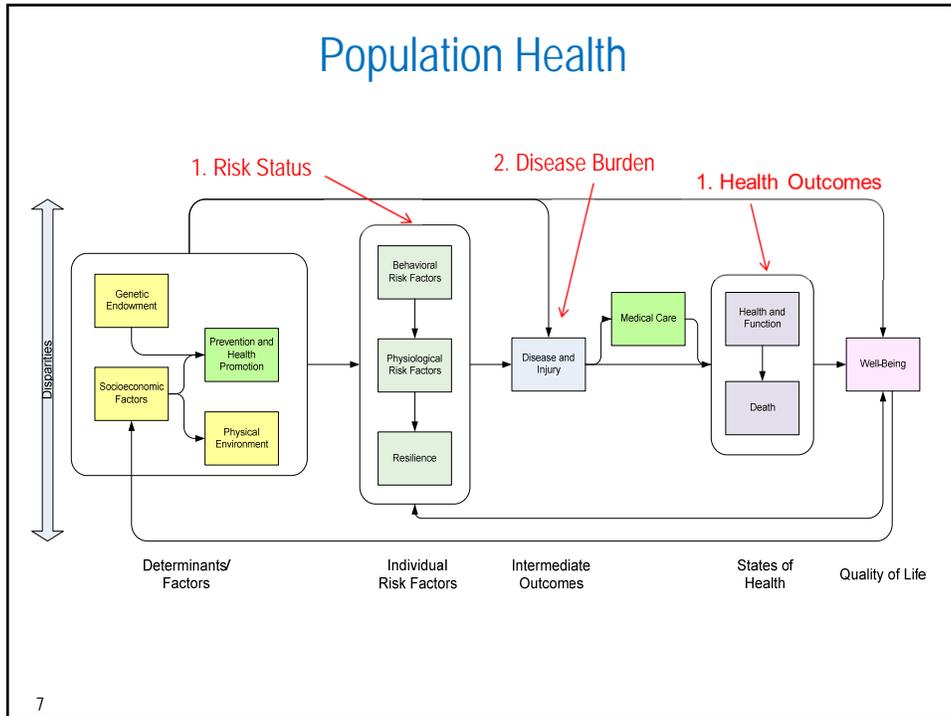
1. Health Outcomes

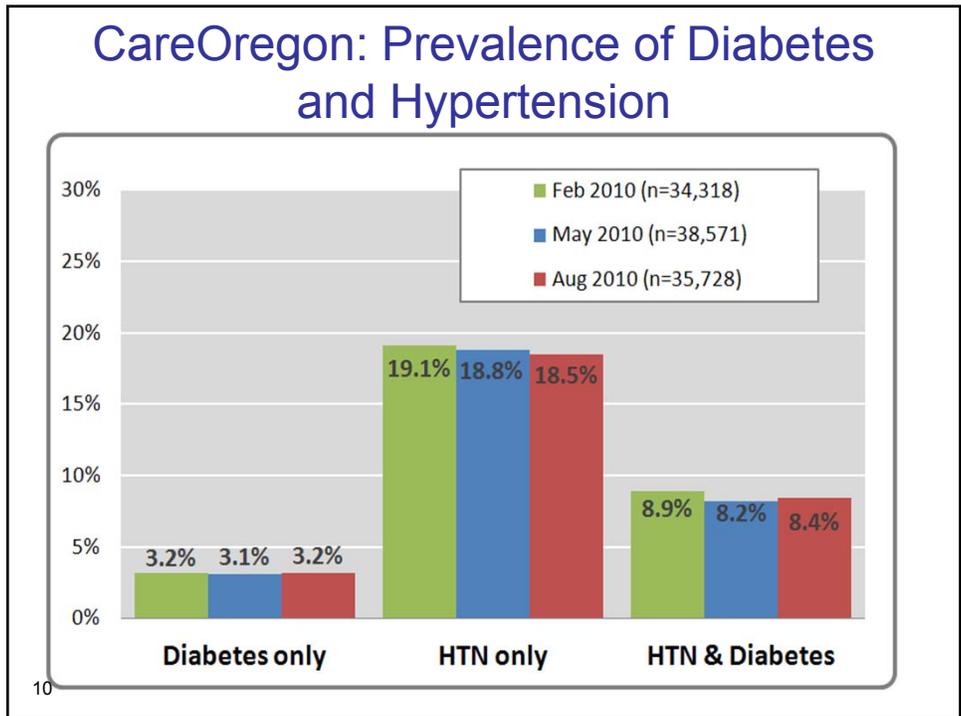
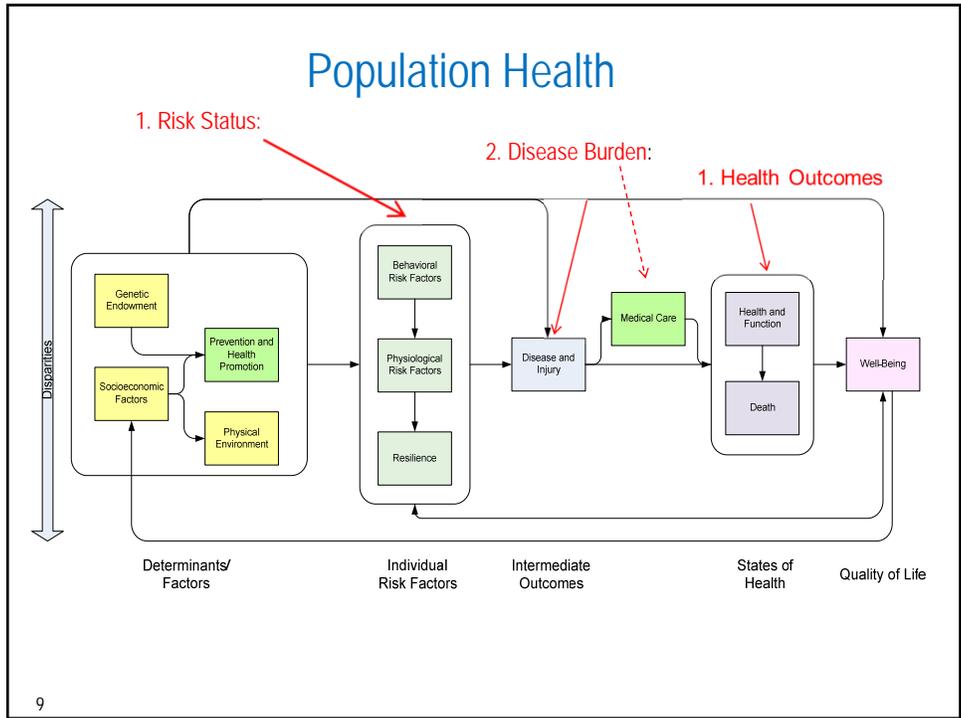
Mortality: For example, Years of potential life lost; Life expectancy; Standardized mortality rates

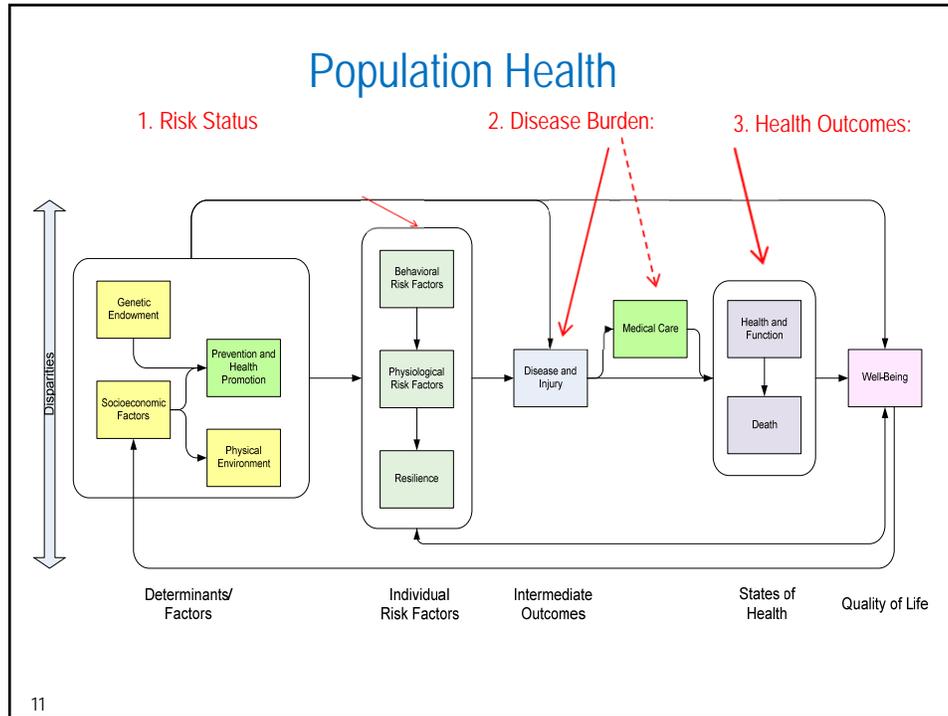
Health/Functional Status (self-reported): Single question or multi-domain (e.g. SF-12)

2. Disease Burden: Incidence and/or prevalence of chronic illness

3. Risk Status: Composite health risk appraisal (HRA) score



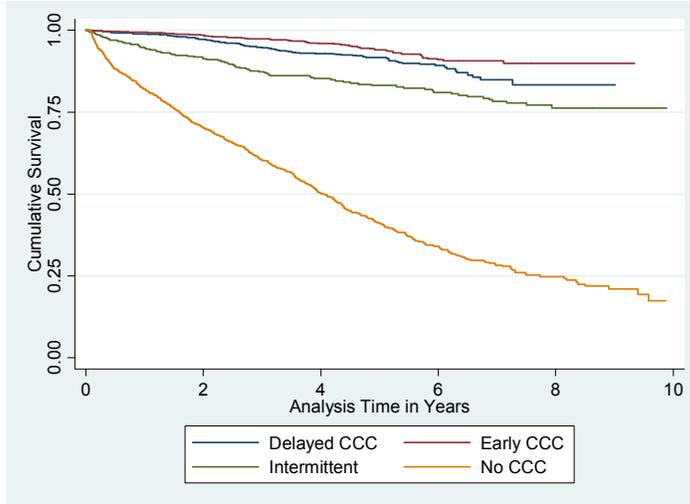




KP: Cardiovascular Mortality

- Population
 - 13,000 KP Colorado members with cardiovascular disease
- Data collection methods
 - Mortality data from clinical records, vital statistics, Social Security
 - Self-perceived health and health behaviors from member survey
- Approach to improving results
 - Clinical Pharmacy Cardiac Risk Service care management program

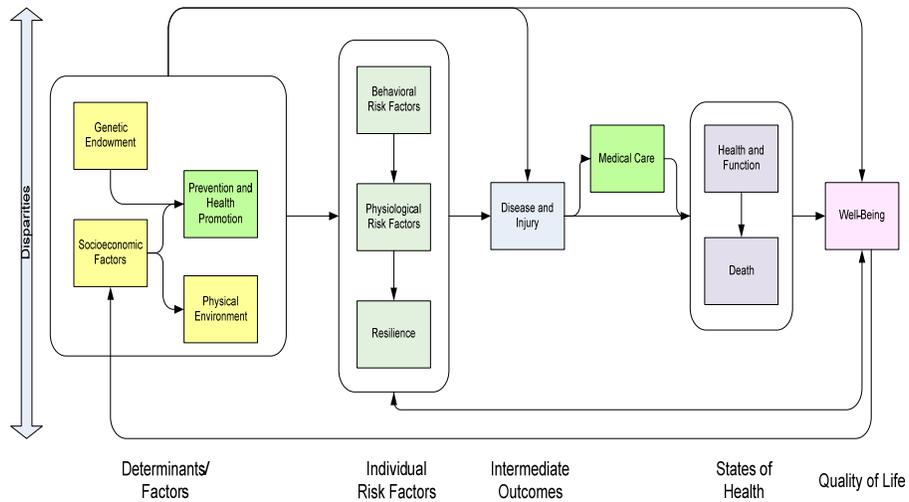
KP Colorado: CVD Care Management Reduces Mortality



Pharmacotherapy 2007;27:1370-1378.

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Population Health



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