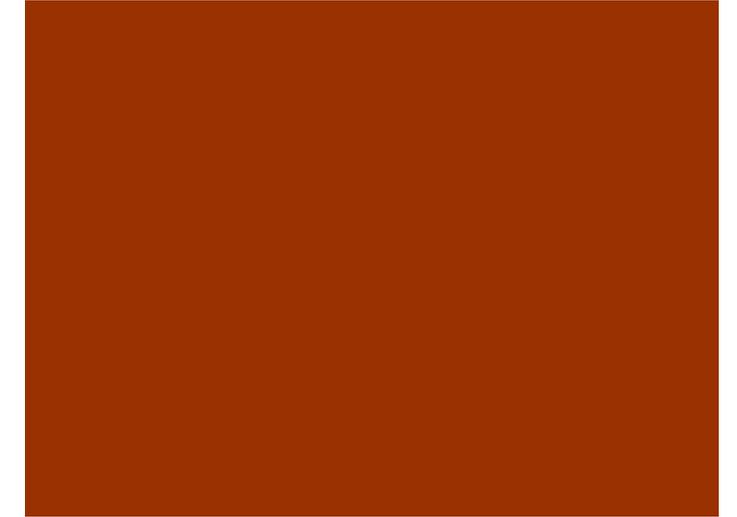


The Thirty-second
Annual Rosalynn Carter
Symposium on Mental
Health Policy




THE CARTER CENTER

*WIDENING THE CIRCLE OF
HEALTH & WELLNESS: THE
CENTRAL ROLE OF BEHAVIORAL
HEALTH*

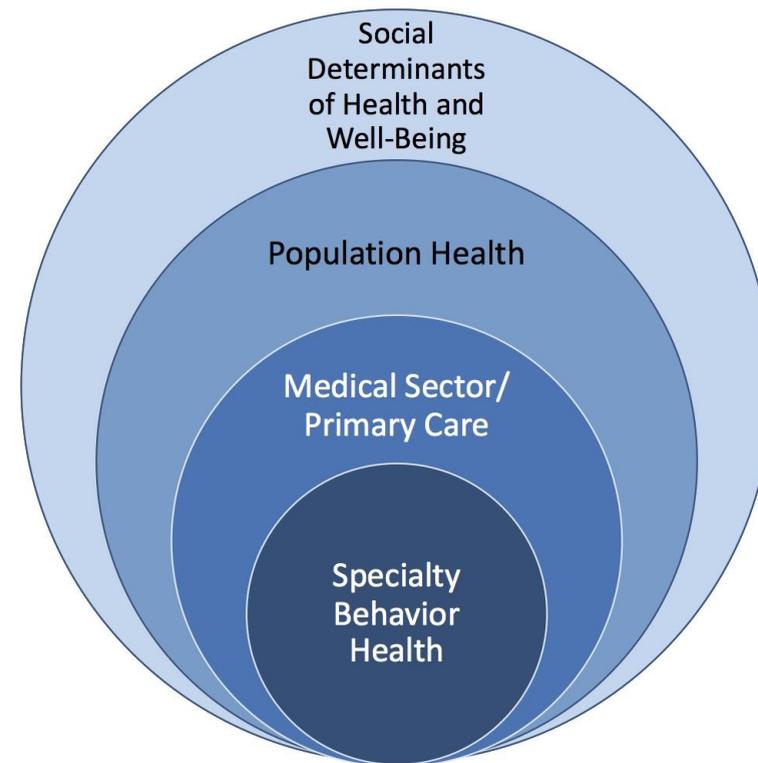
Opening Keynote

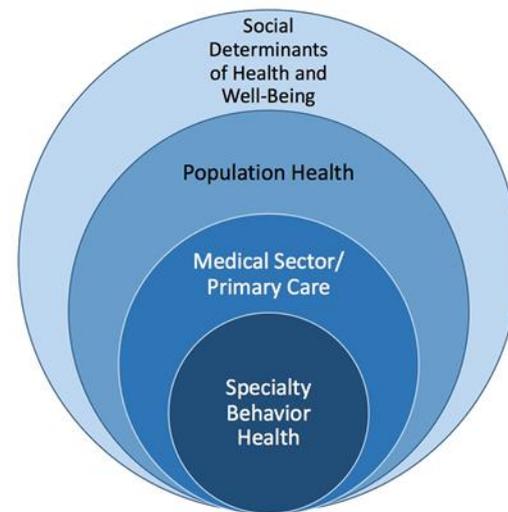
Paul Summergrad, MD

*Dr. Frances S. Arkin Professor and Chairman,
Department of Psychiatry,
Tufts University School of Medicine*



Rethinking Behavioral Health





Paul Summergrad, MD

Dr. Frances Arkin Professor and Chairman of Psychiatry

Professor of Medicine

Tufts University School of Medicine

Tufts Medical Center

Chairman

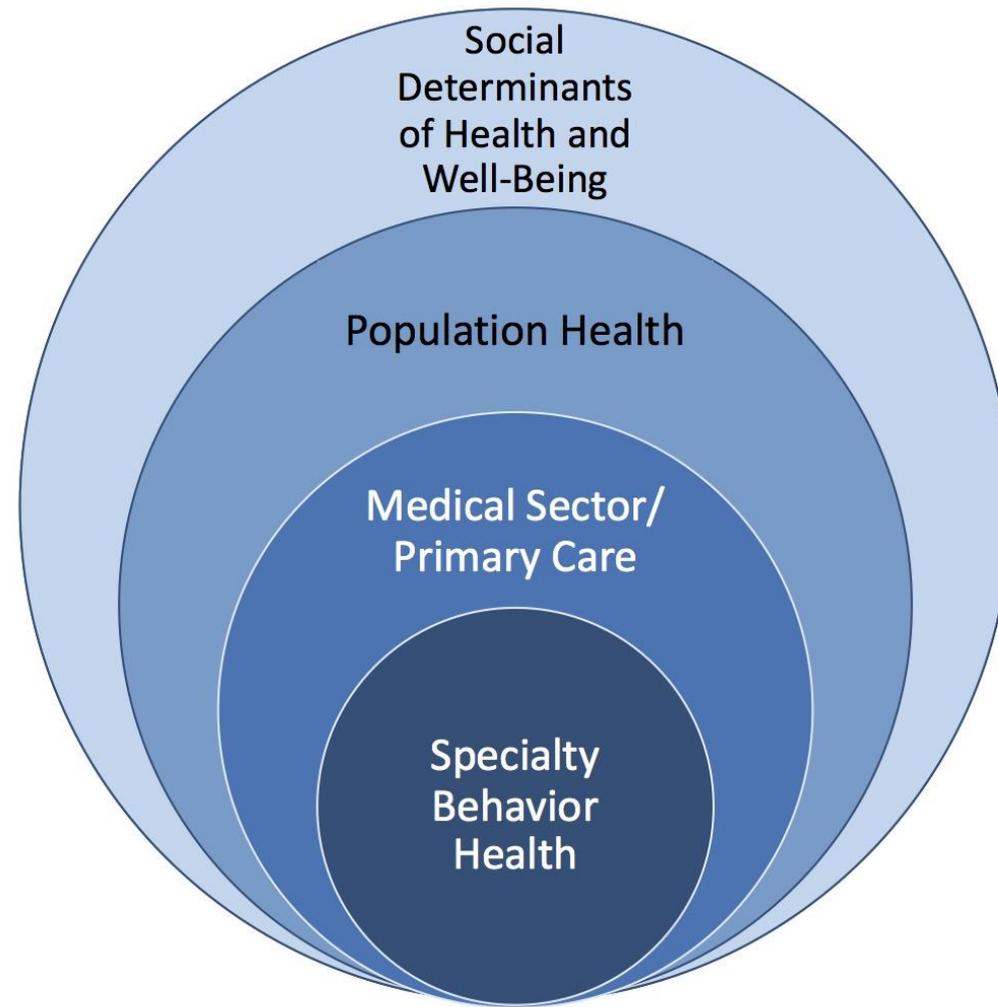
Tufts Medical Center Physicians Organization

Past President

American Psychiatric Association

Disclosures

- Non promotional speaking from Universities, Associations and Pharmasquire
- Royalties from Springer, American Psychiatric Press and Harvard University Press
- Scientific Advisory Board Mental Health Data Services, Inc. and Quartet Health, Inc.

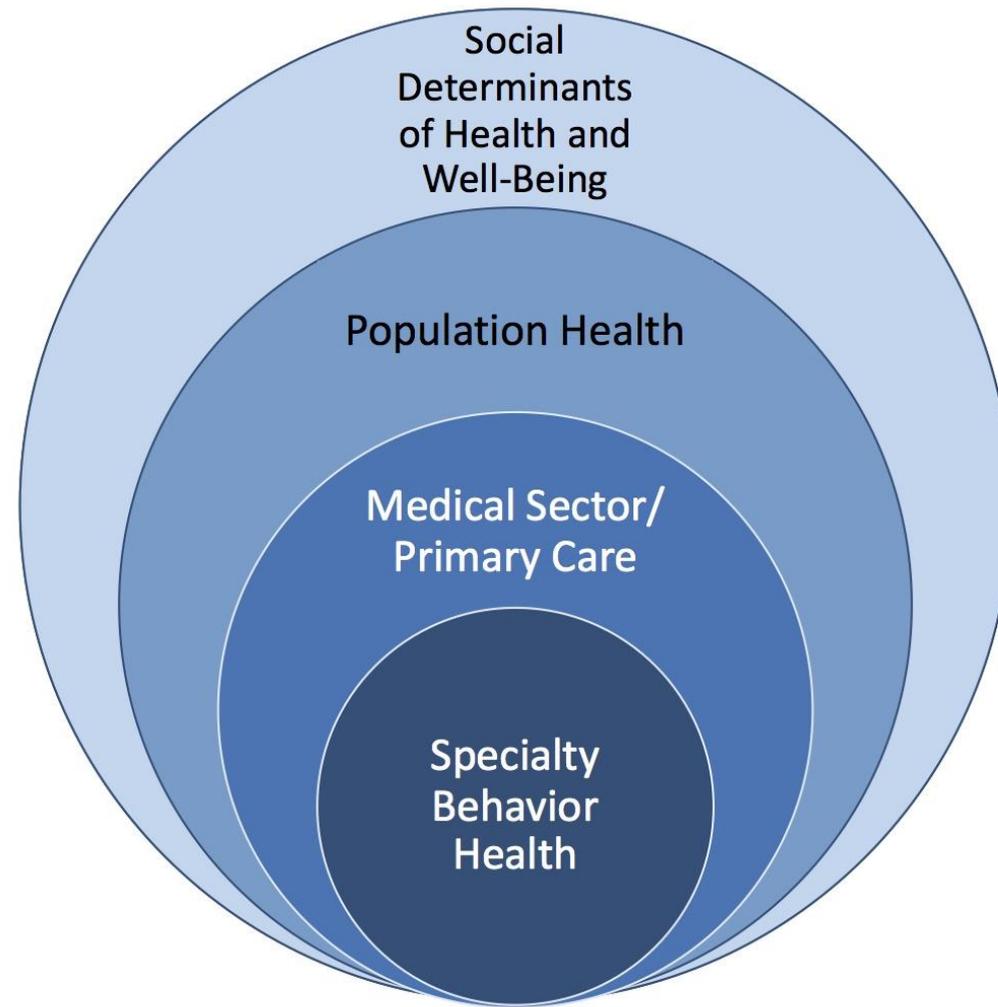


Alan Gregg and the Rockefeller Foundation

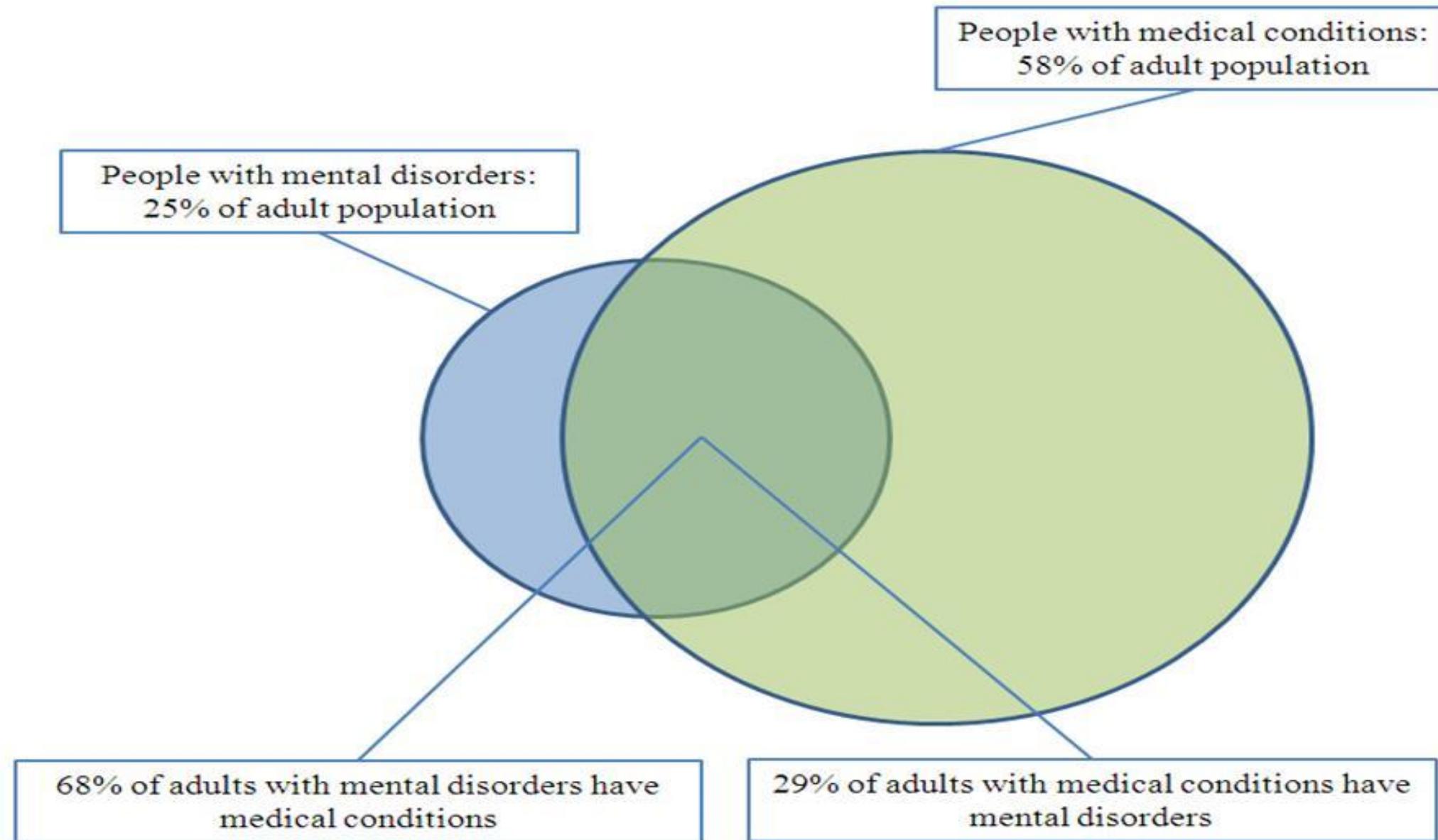


Massachusetts General Hospital Circa 1930

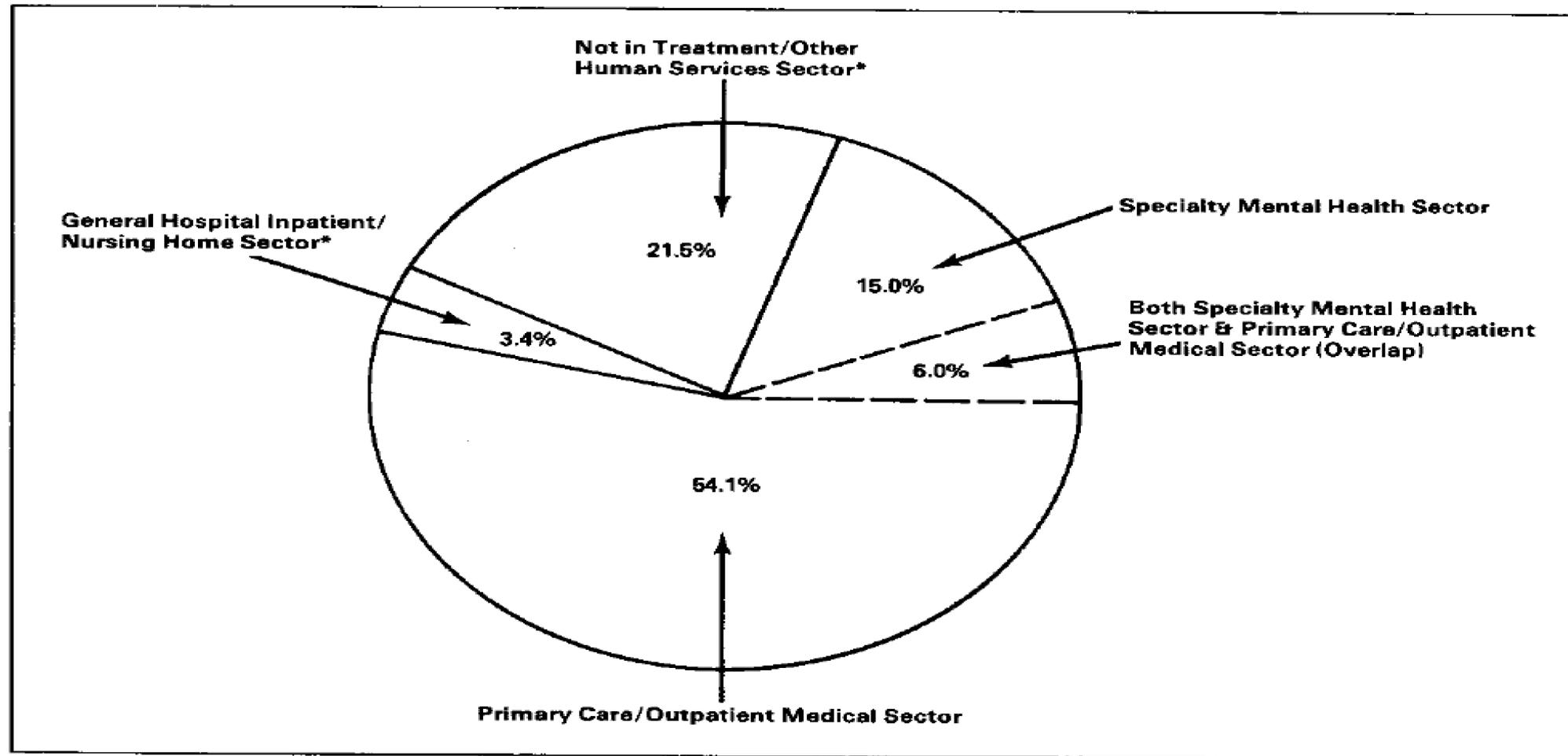




Medical Psychiatric Co-Morbidity



Who cares for patients?



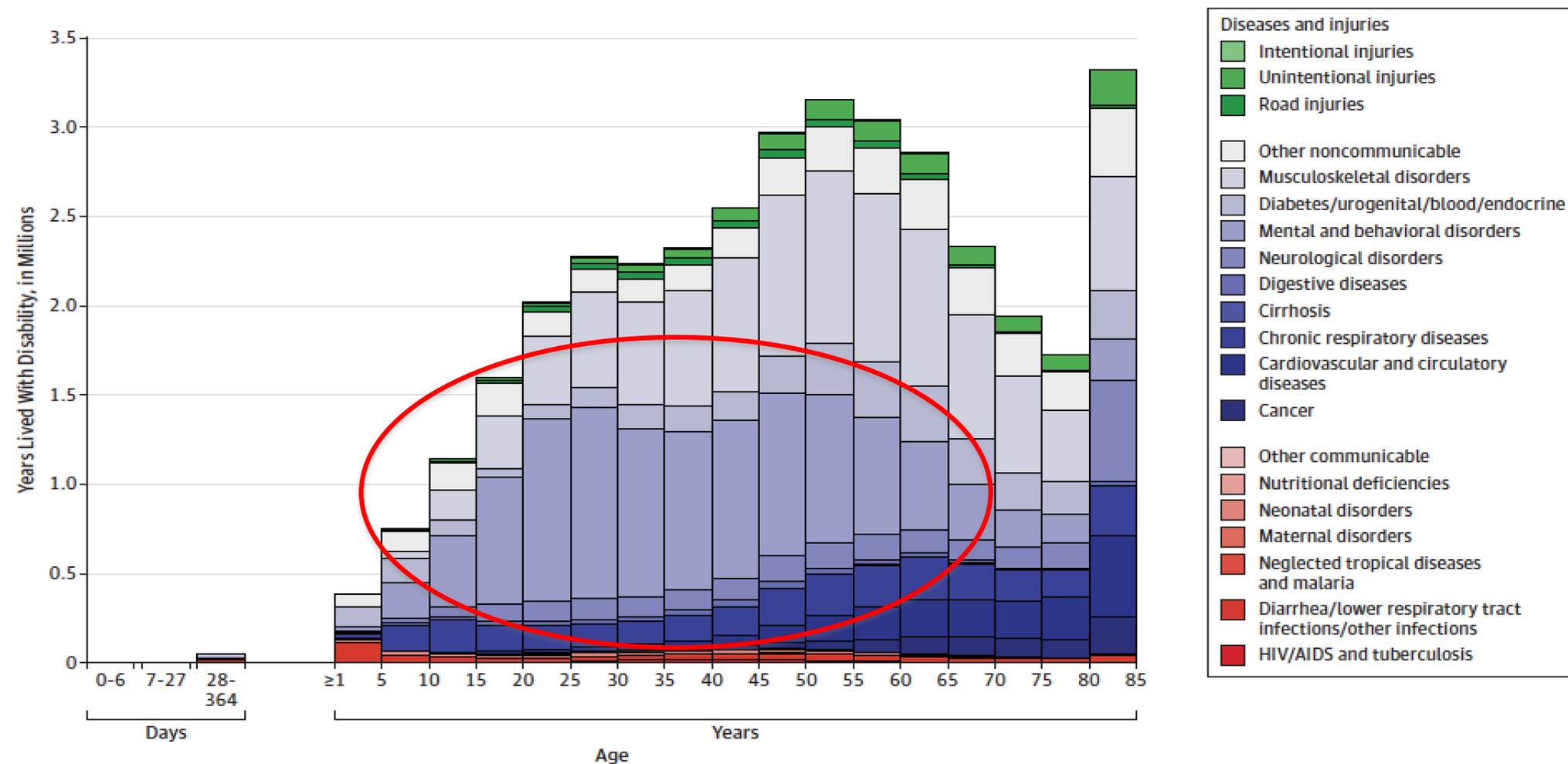
Estimated percent distribution of persons with mental disorder, by treatment setting, in United States in 1975. Data relating to sectors other than specialty mental health sector reflect number of patients with mental disorder seen in those sectors without regard to amount or adequacy of treatment provided. Asterisks indicate exclusion of overlap of unknown percent of persons also seen in other sectors.

Number of Years Lived With Disability by Age for 20 Broad Groups of Diseases and Injuries in the United States in 2010 for Both Sexes Combined

From: **The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors**

JAMA. 2013;():-. doi:10.1001/jama.2013.13805

Figure 1. Number of Years Lived With Disability by Age for 20 Broad Groups of Diseases and Injuries in the United States in 2010 for Both Sexes Combined

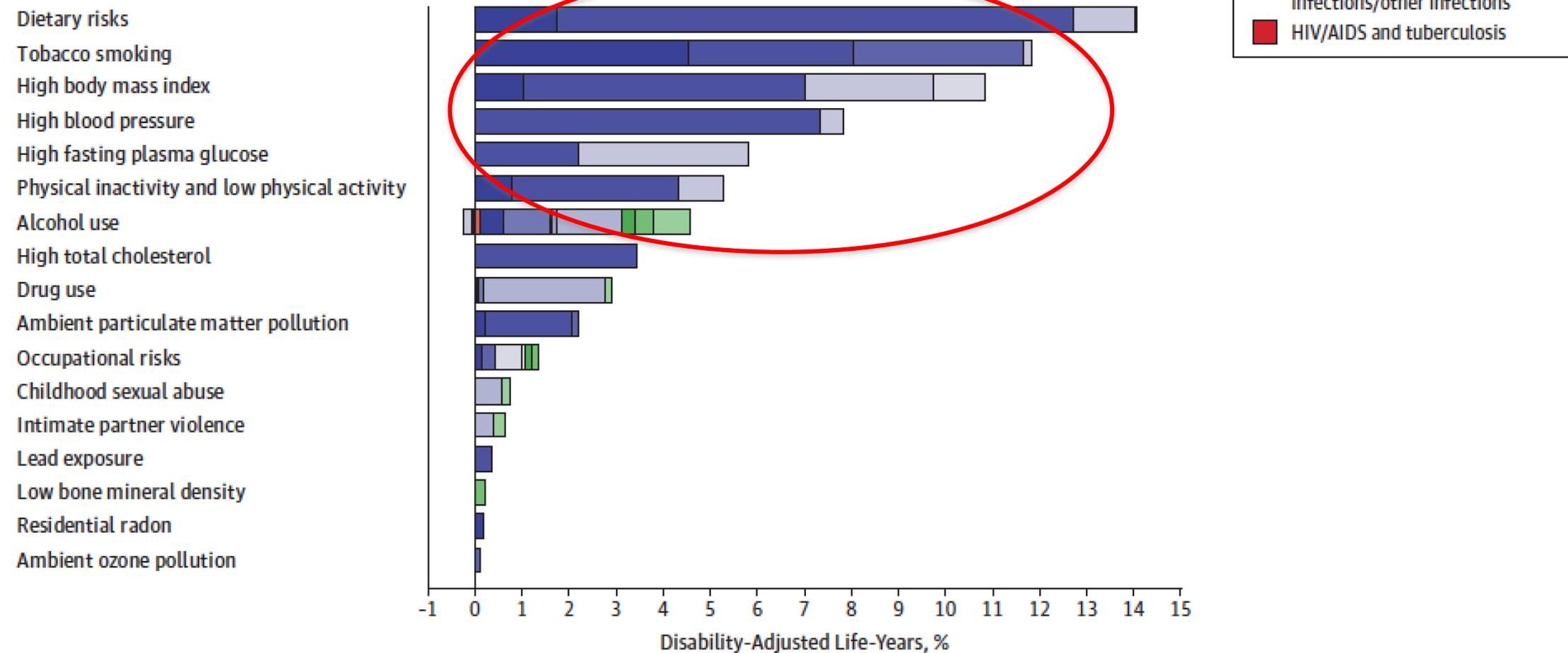


Number of Deaths and Percentage of Disability-Adjusted Life-Years Related to the 17 Leading Risk Factors in the United States in 2010 for Both Sexes Combined

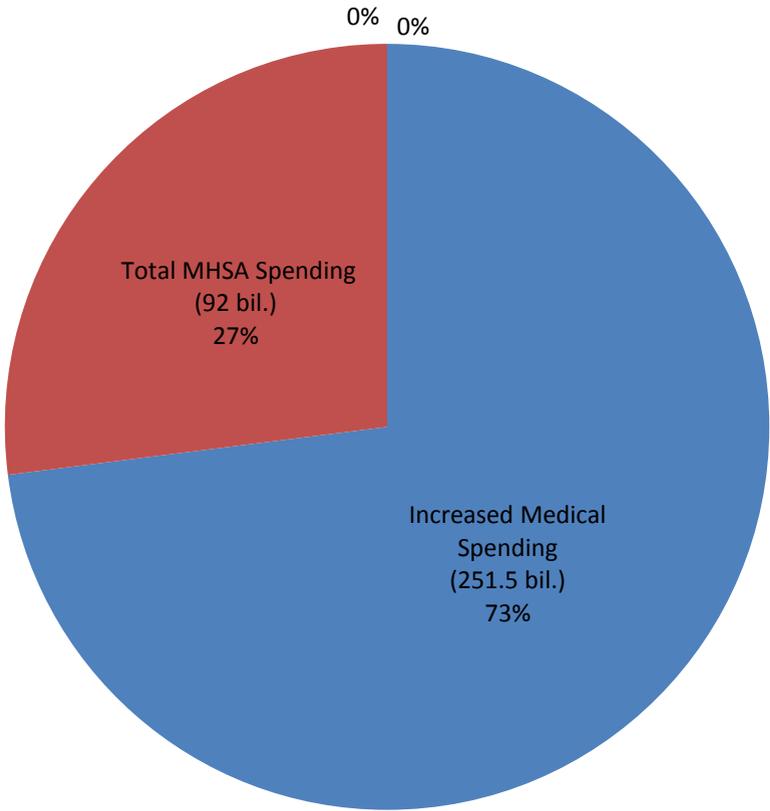
From: **The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors**

JAMA. 2013;():-. doi:10.1001/jama.2013.13805

B Risk factors as a percentage of disability-adjusted life-years



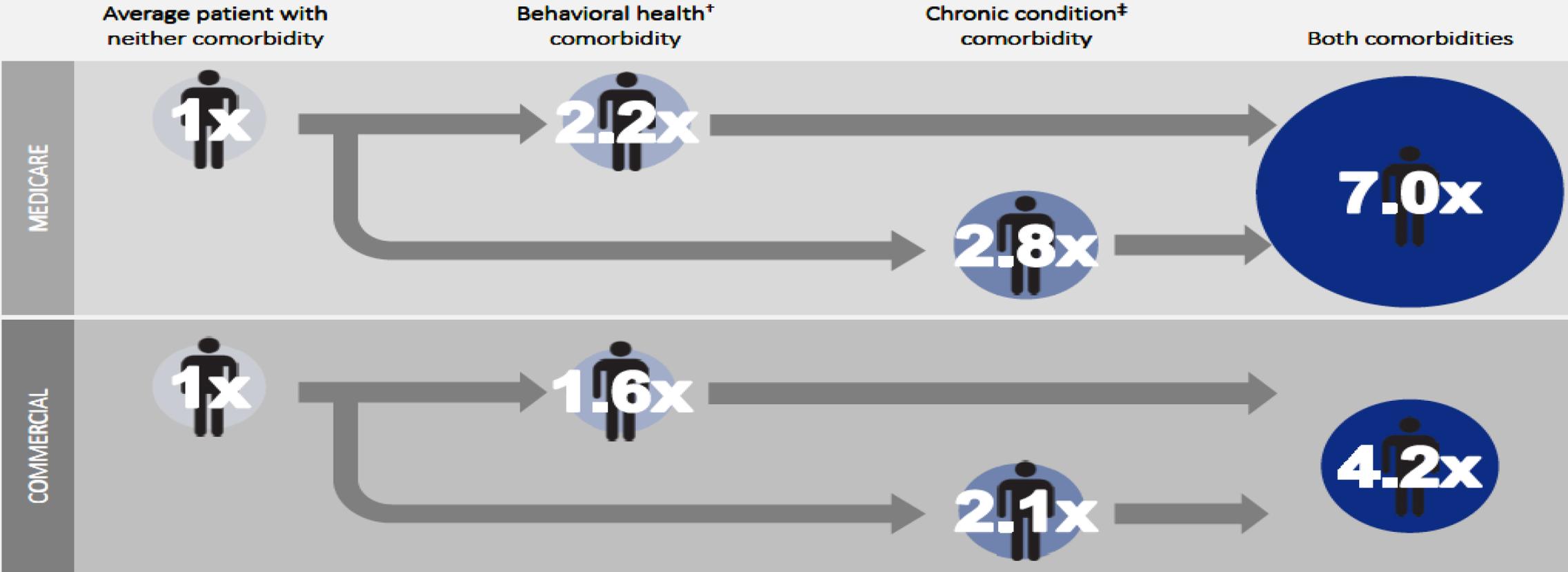
**Total MHSAs & Increased Medical Spending
\$343 Billion**



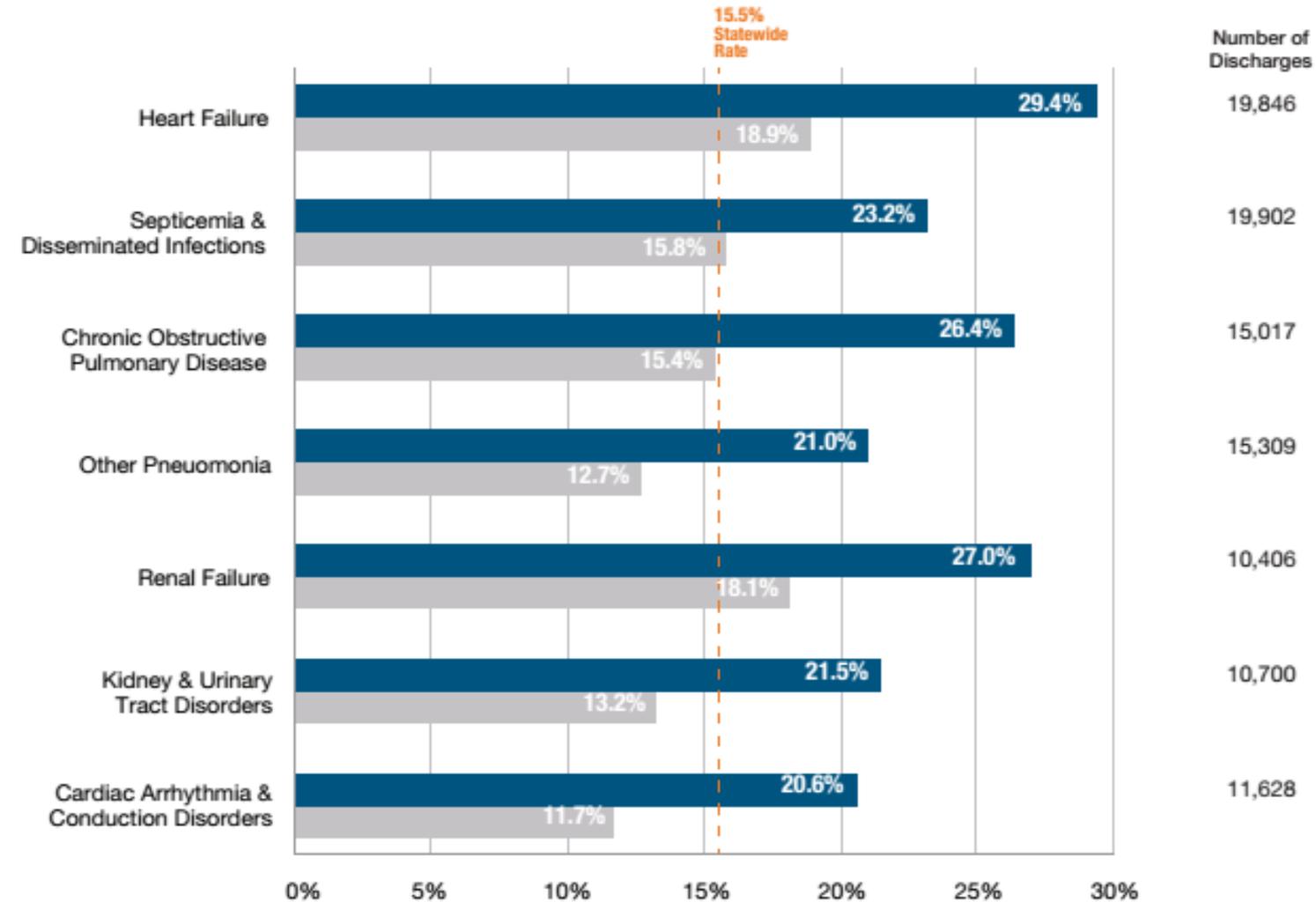
Impact of Co-Morbidity - Massachusetts

Clinical conditions: interaction of conditions can result in higher than expected spending

Claims-based medical expenditures per patient (excluding pharmacy spending)
Relative to average patient with no behavioral health or chronic comorbidity in 2010



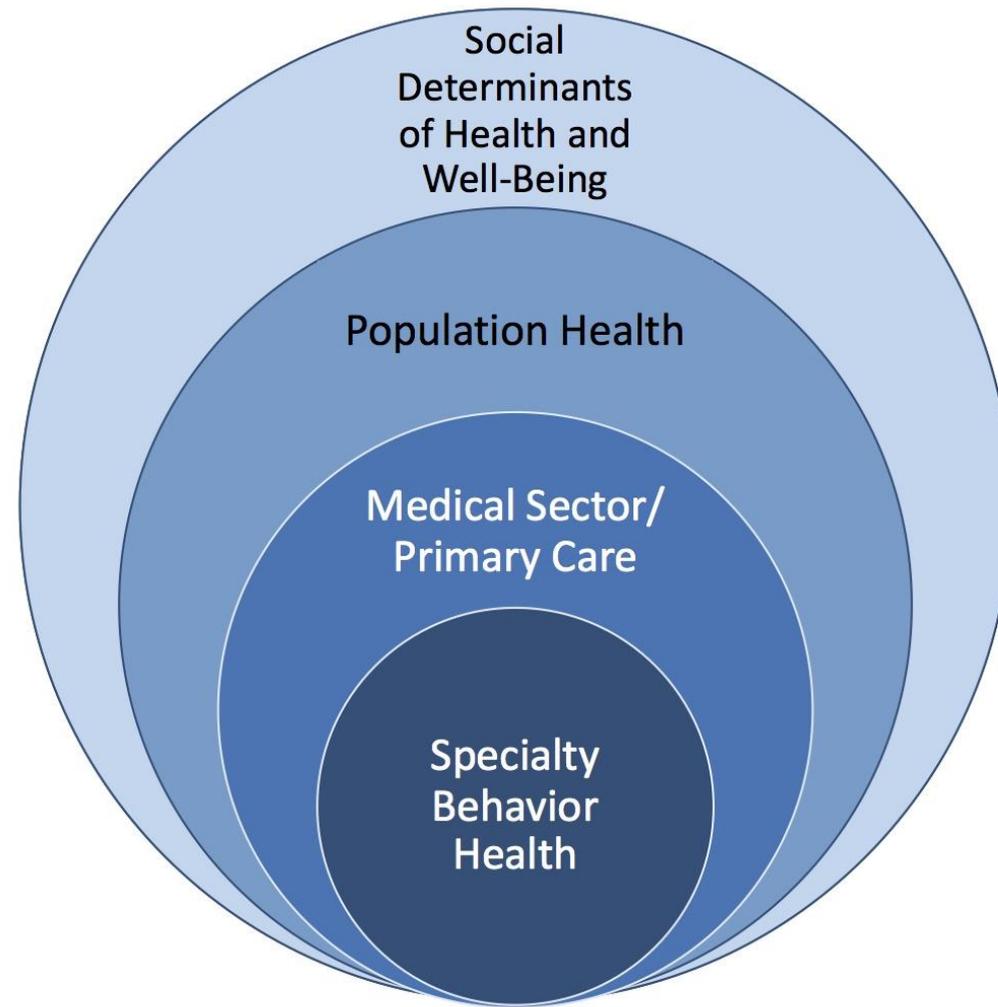
Readmission Rates and Behavioral Health Comorbidity by Common Discharge Diagnosis



■ Rate with Behavioral Health
■ Rate with No Behavioral Health

Note: Diagnostic categories are defined by the All-Payer Refined Diagnosis-Related Group (APR-DRG). Analyses include discharges for adults (age 18+) with any payer and exclude obstetric discharges.

Data source: Massachusetts Hospital Inpatient Discharge Databases, July 2013 – June 2014.

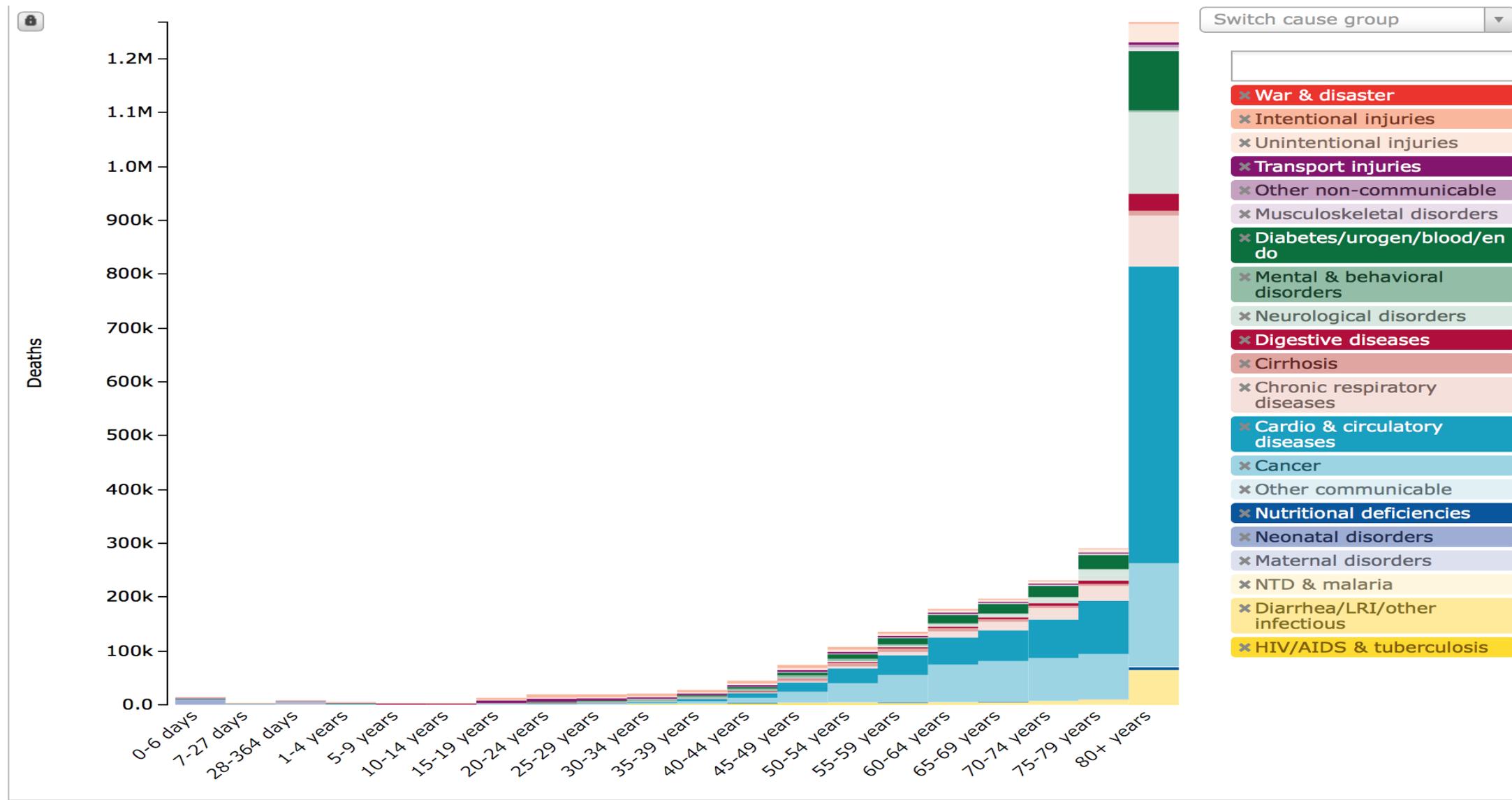


A Global Perspective

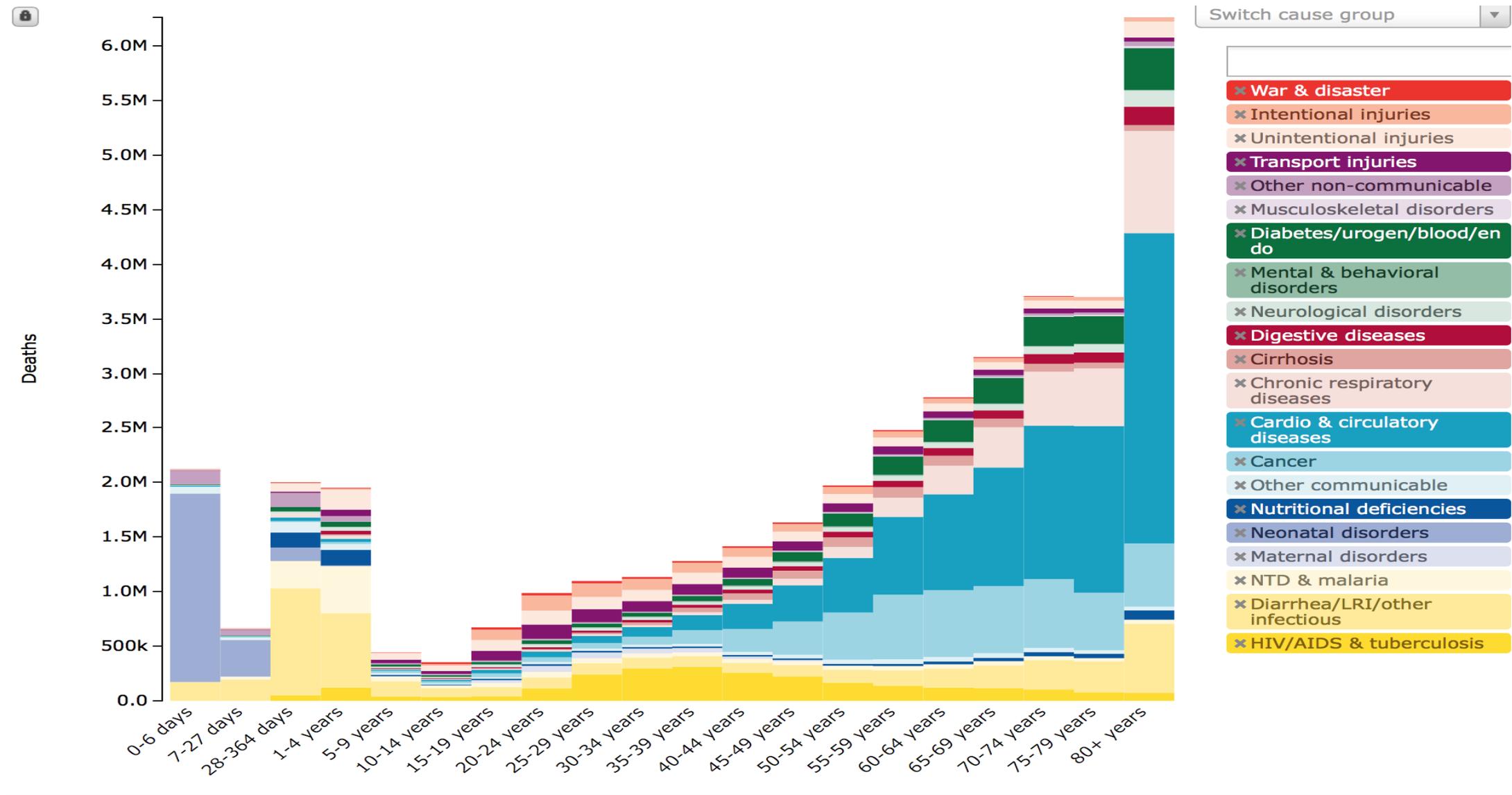


Joao Silva, West Africa The New York Times October 11, 2015

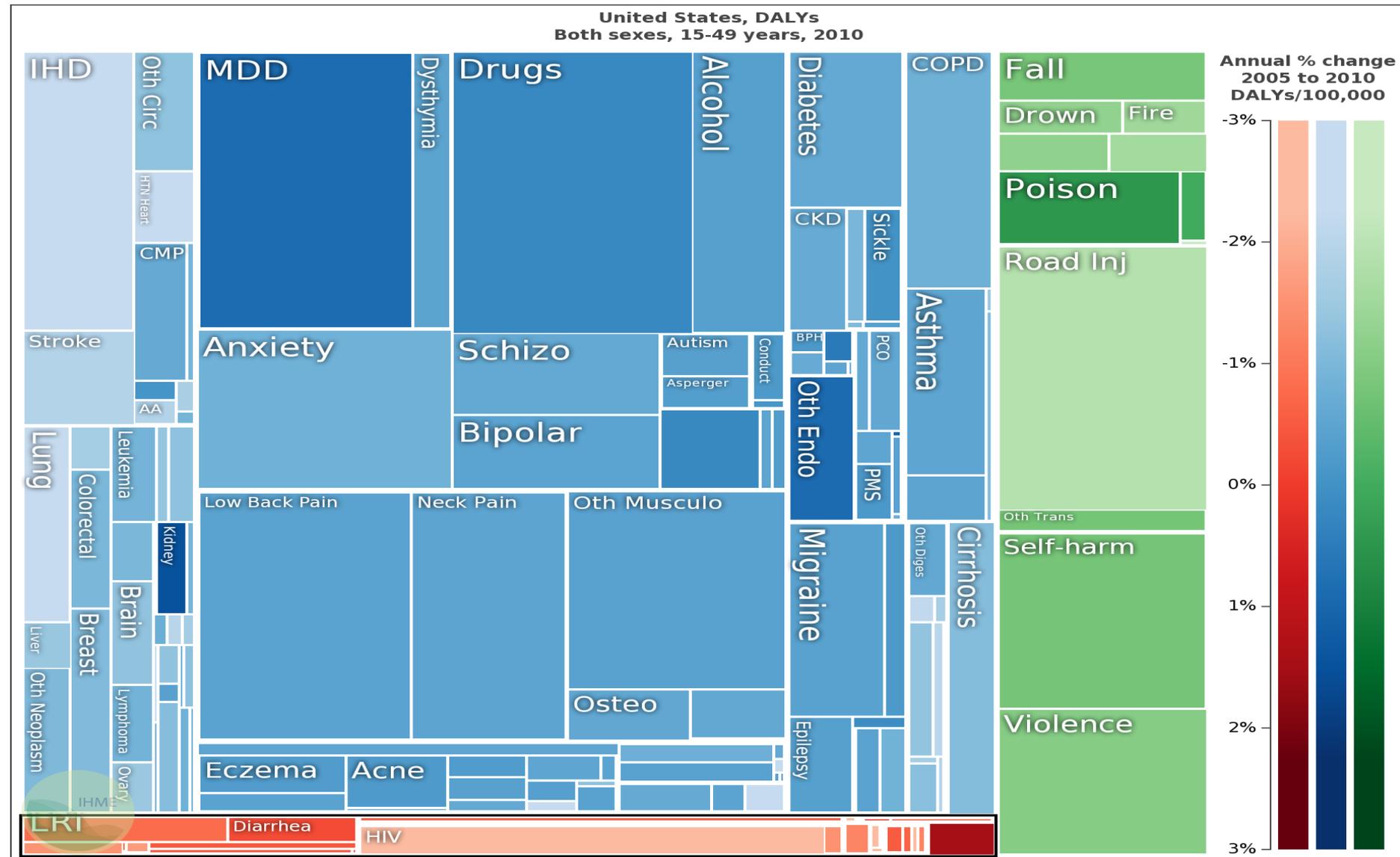
Age and Cause of Death US



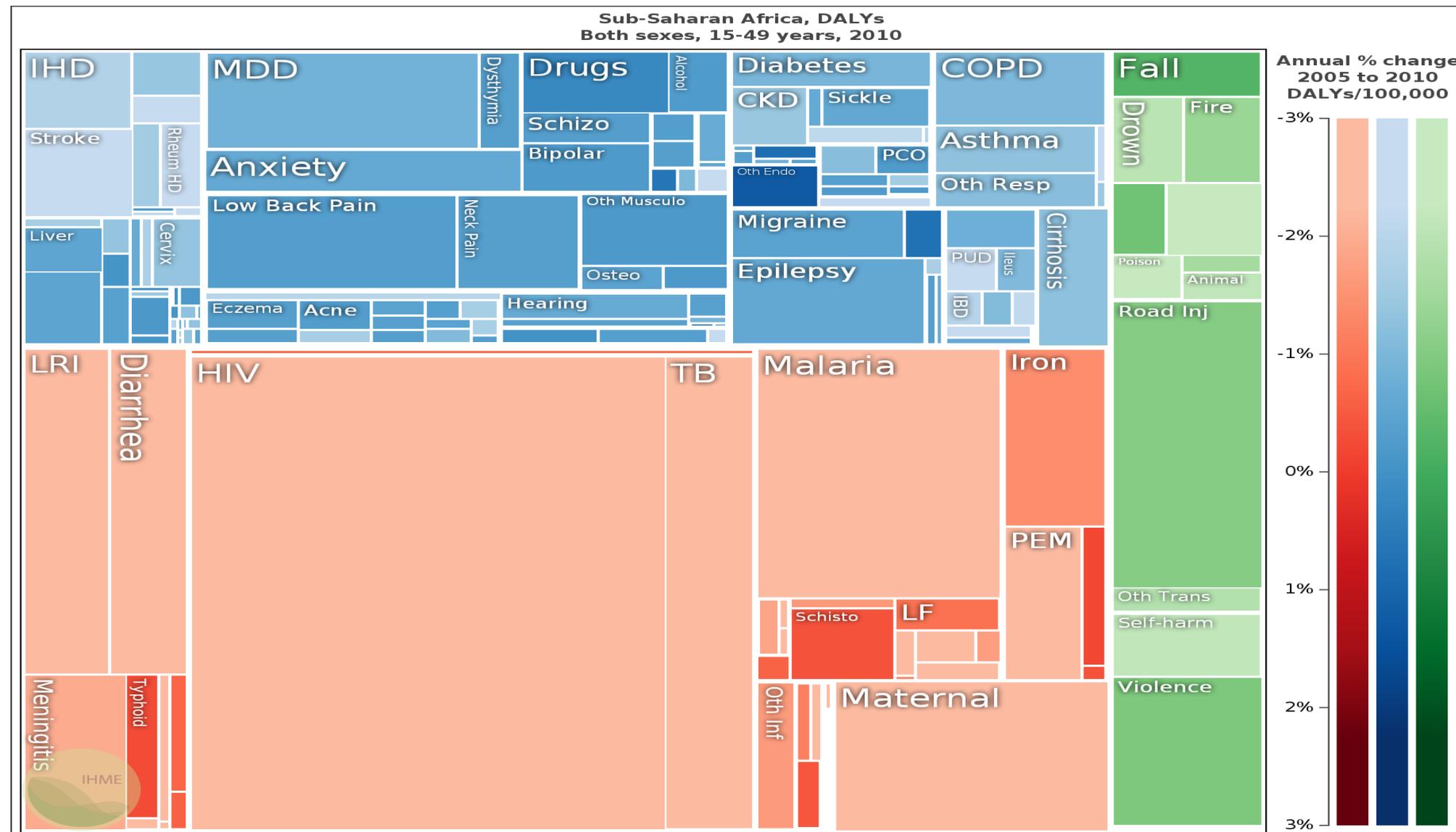
Age and Cause of Death Developing World



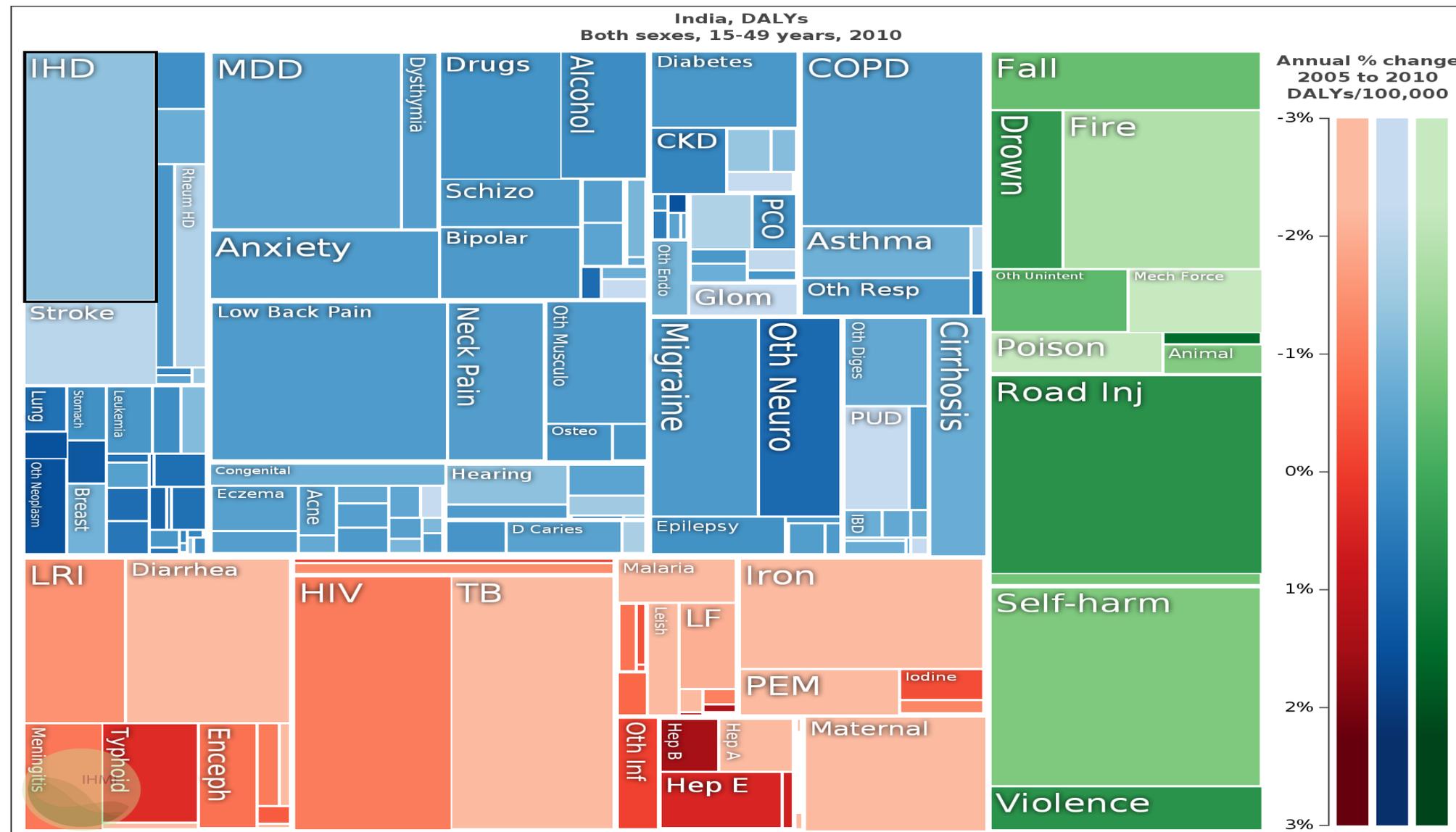
DALY's US Ages 15-49



Sub Saharan Africa DALYs Ages 15-49

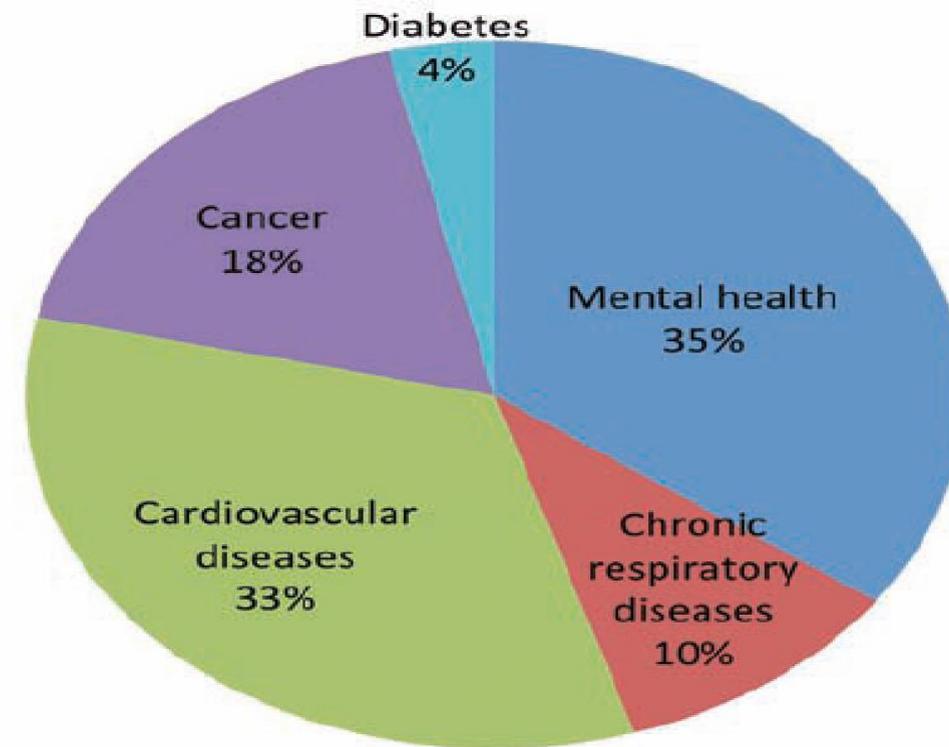


India DALYs Ages 15-49



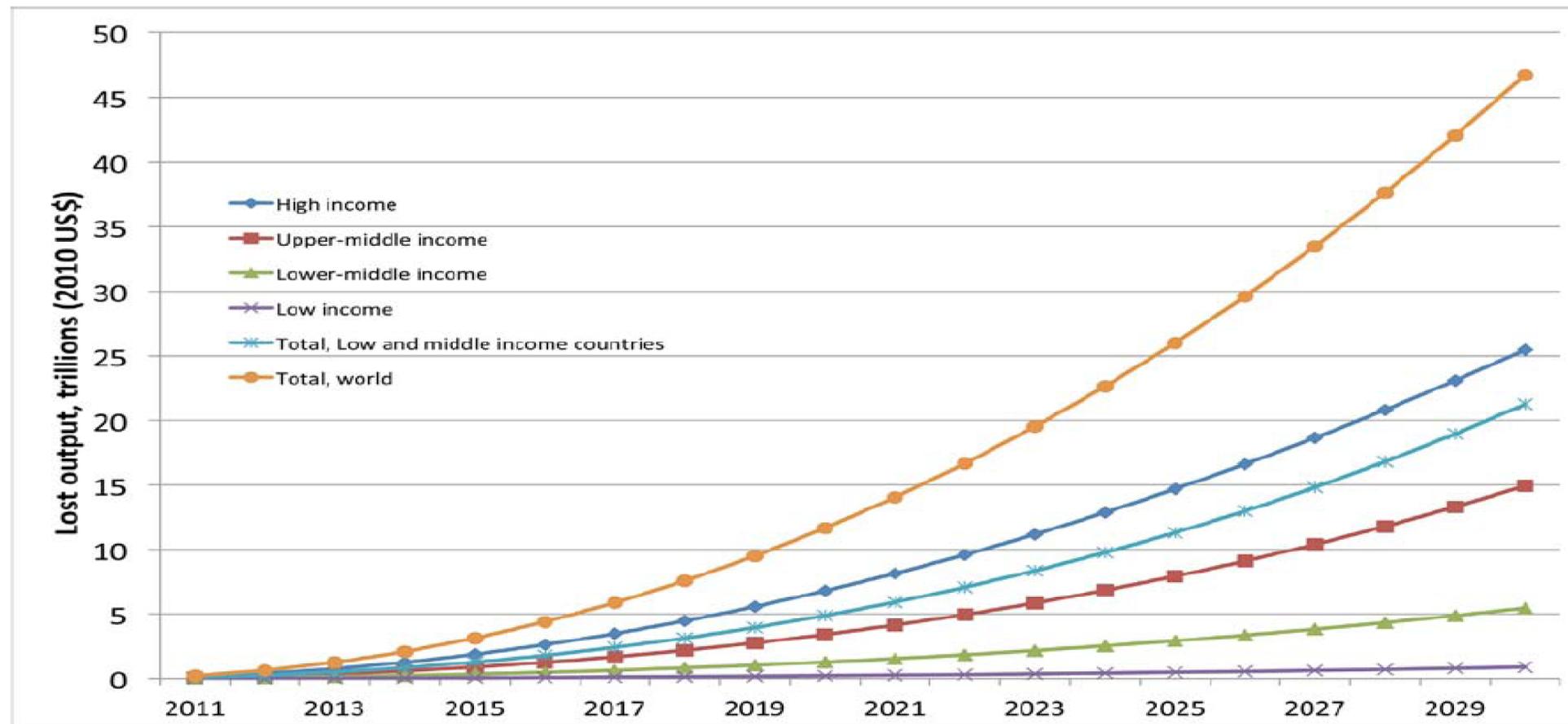
MH and CVD are largest causes of economic impact

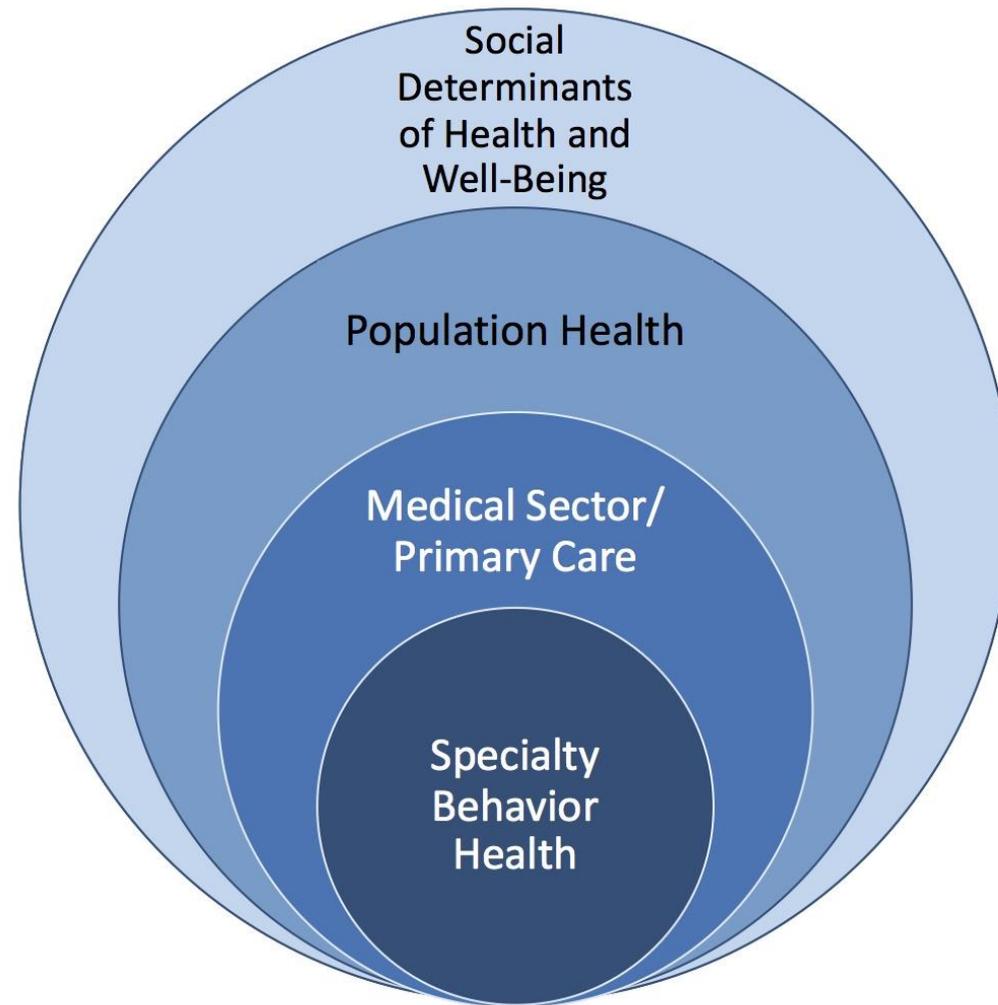
Figure 3a: Mental health and cardiovascular diseases are top drivers of lost output
Breakdown of NCD cost by disease type, based on EPIC model



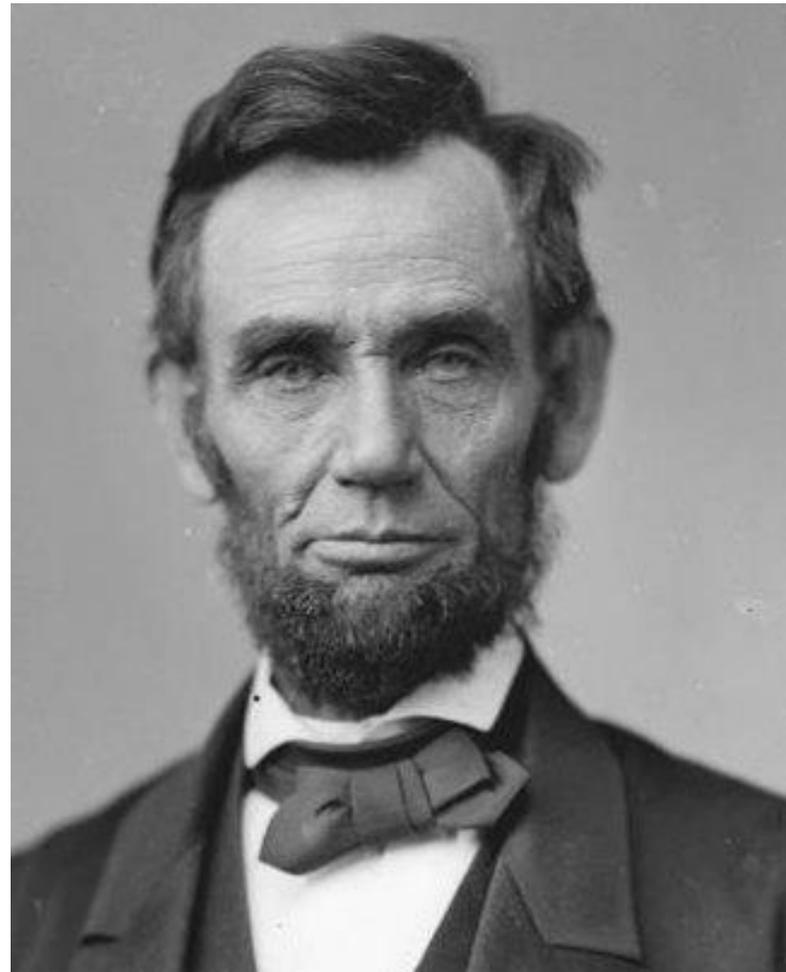
Output Losses Increase

Figure 4: Output losses will speed up over time
(Breakdown of NCD cost by disease, based on EPIC model)

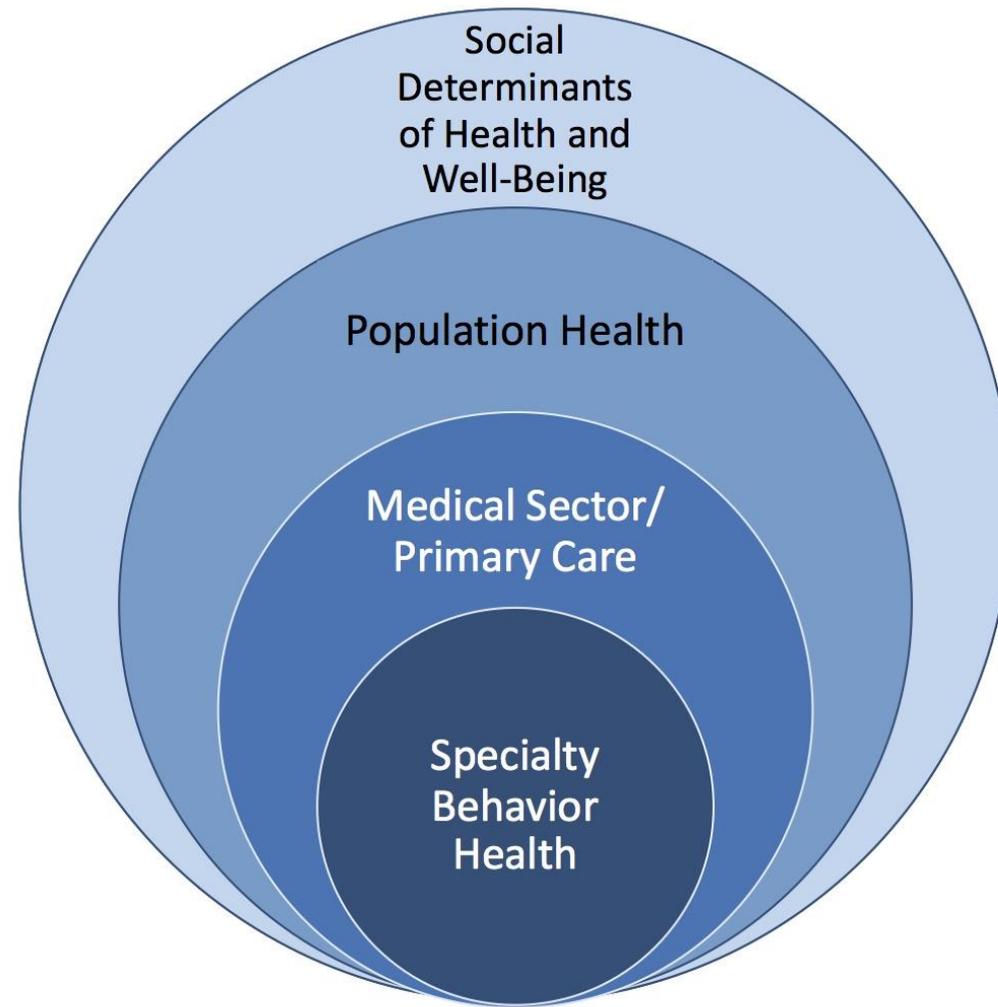




Lincoln on Melancholy



- A tendency to melancholy, let it be observed.... is a misfortune, not a fault
 - Abraham Lincoln Letter to Mary Speed 1841



Conclusion and Discussion