

The Burden of Mental Disorders in the Region of the Americas, 2018

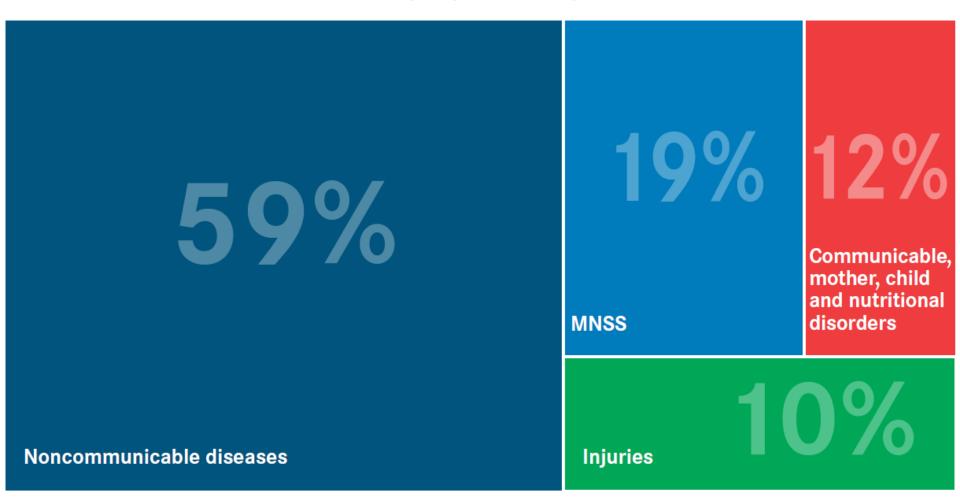


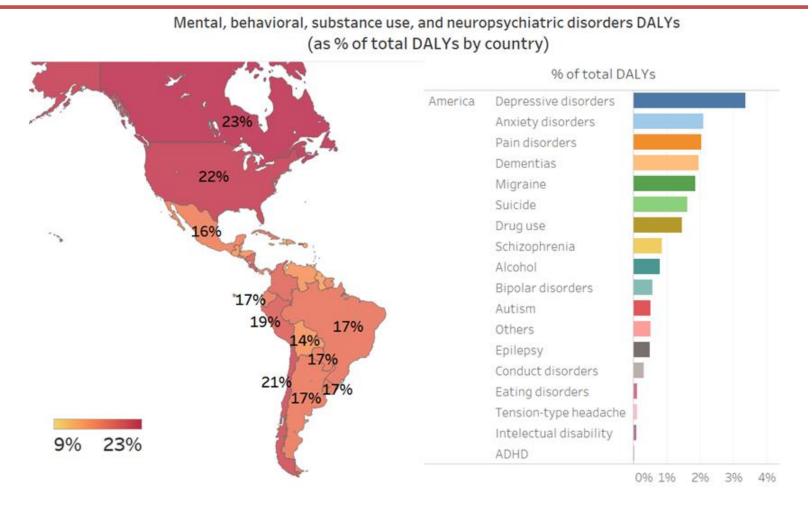
Assistant Professor – Simon Fraser University

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- Mental, neurological, substance use disorders and suicide are:
 - The largest cause of disability globally
 - An important cause of mortality: up to 8% of years of life lost
- Usual assessment methods lead to underestimates:
 - Exclude personality disorders, self-harm and suicide, somatization and pain disorders, and related neurologic syndromes
 - Exclude nearly all mortality caused by mental disorders
 - Current approach: Combining psychiatric and neurologic disorder burden, including suicide and self-harm, personality, somatization and pain disorder

% of total disability adjusted life years in America

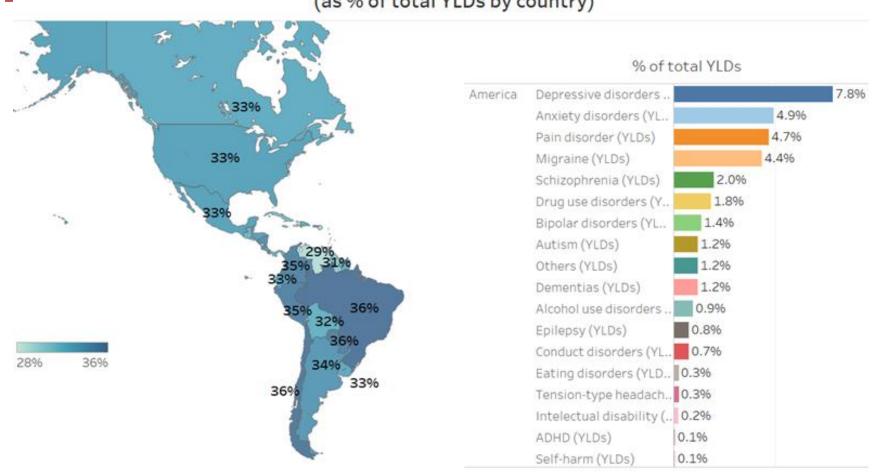




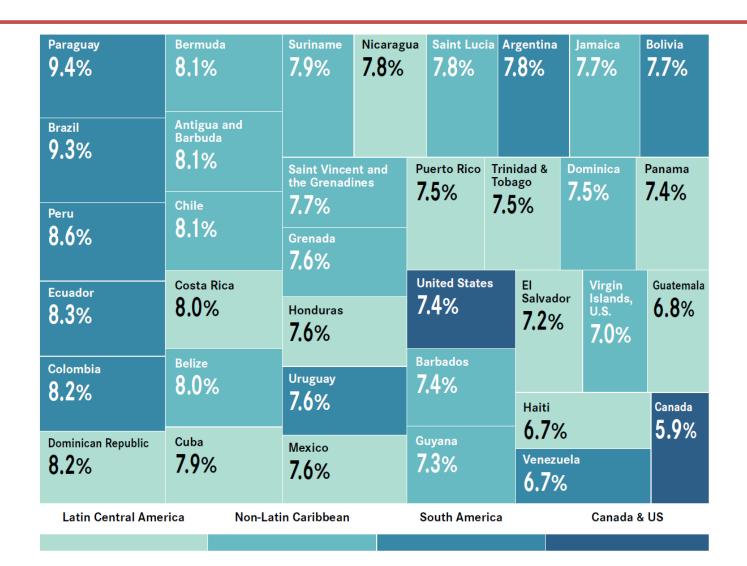
% of total years lived with disability in America

MNSS Communicable, maternal, Noncommunicable diseases child and nutritional disorders **Injuries**

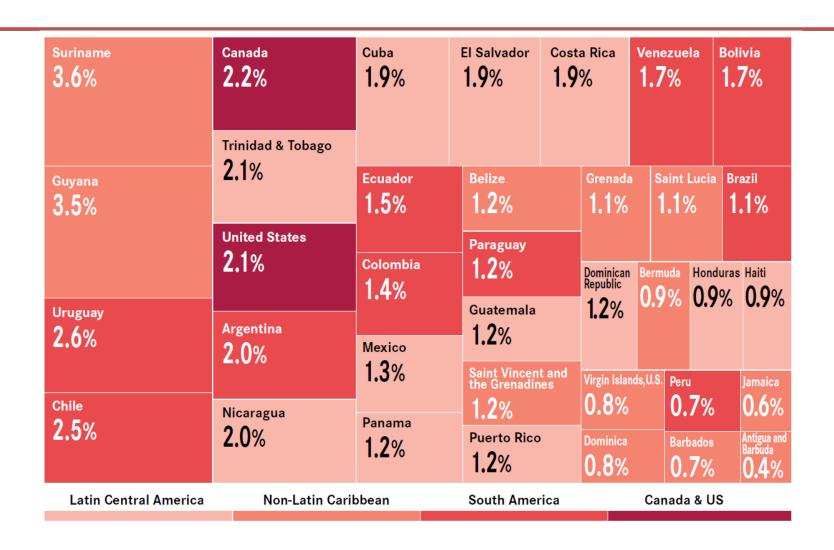
Mental, behavioral, substance use, and neuropsychiatric disorders YLDs (as % of total YLDs by country)



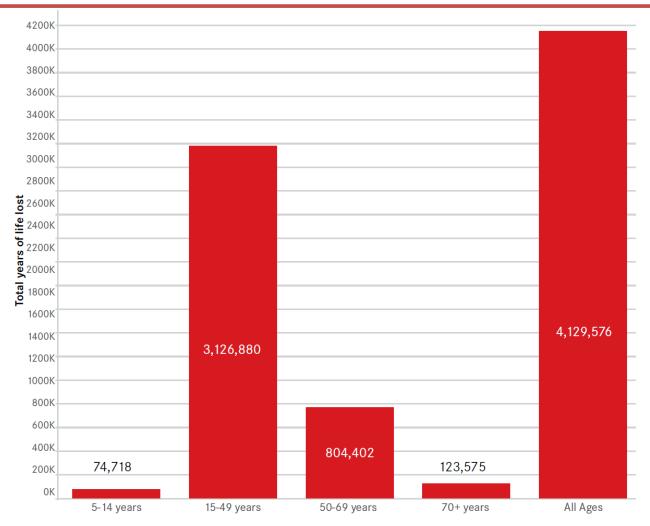
Common mental illness and suicide: Depression YLDs as a % of total disability



Common mental illness and suicide: Suicide DALYs as a % of total disability

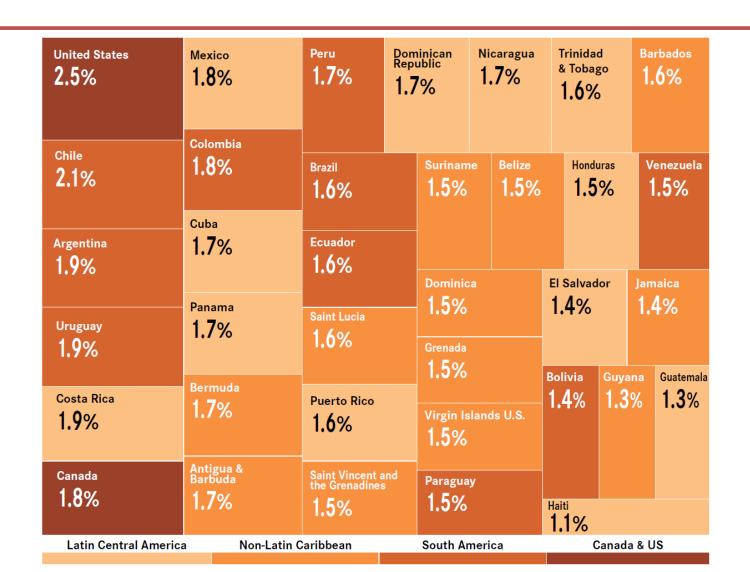


Common mental illness and suicide

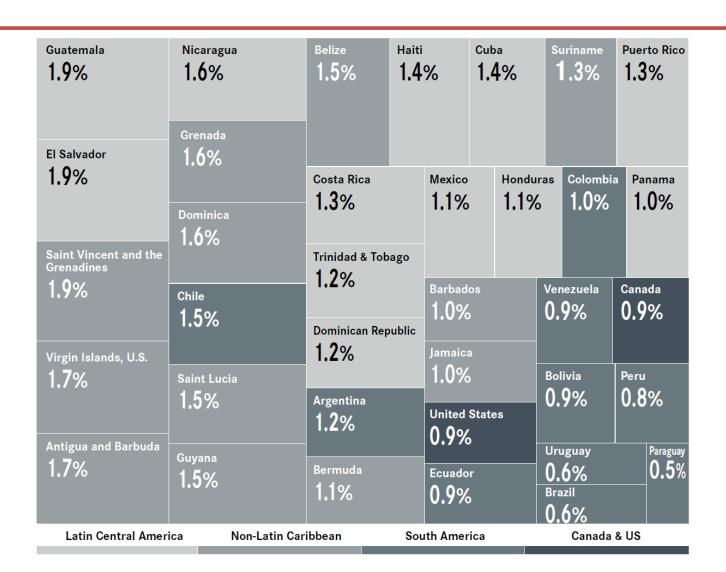


^{*}Columns represent total YLLs in the Americas for four separate age groups, and a fifth column for all ages.

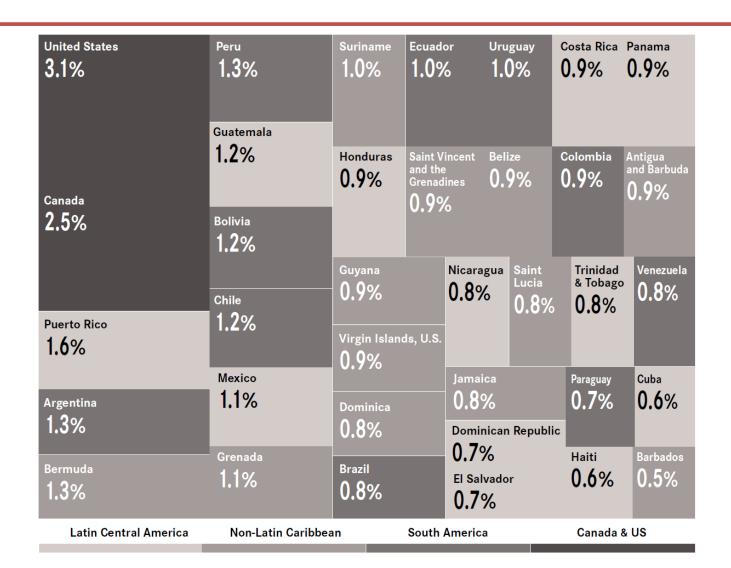
Severe mental illness: Schizophrenia YLDs as a % of total disability



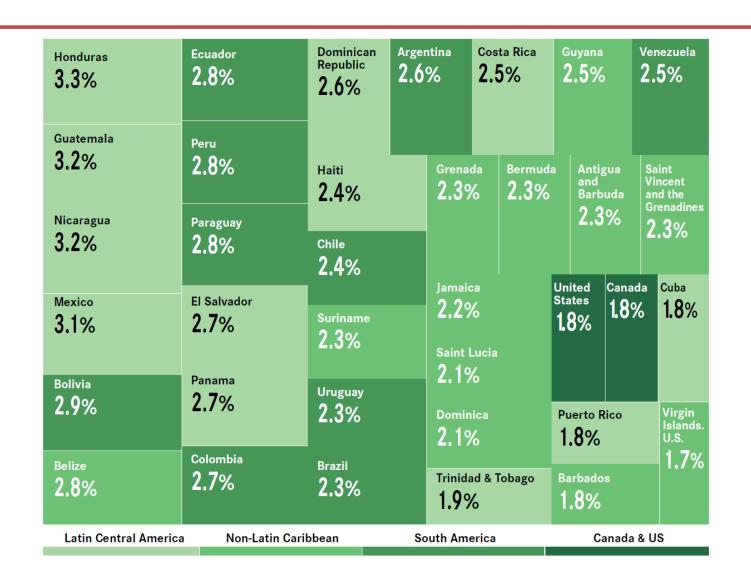
Substance use: Alcohol use disorders YLDs as a % of total disability



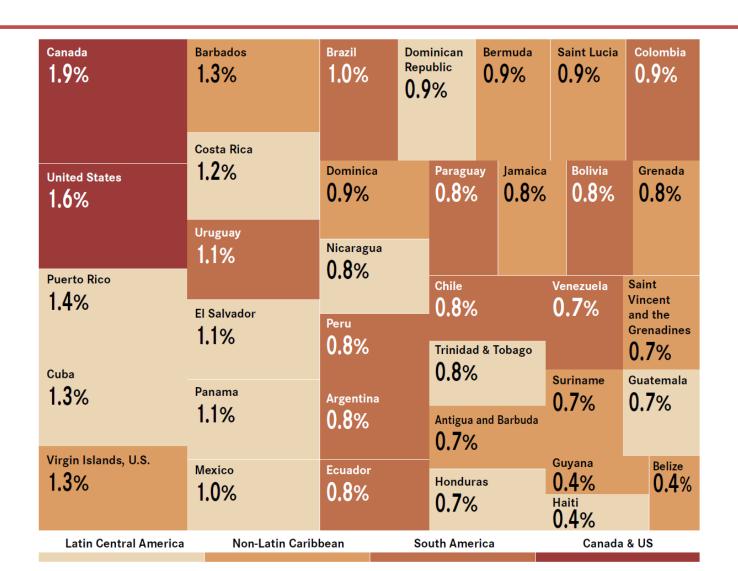
Substance use: Drug use disorders YLDs as a % of total disability



Childhood onset disorders YLDs as a % of total disability

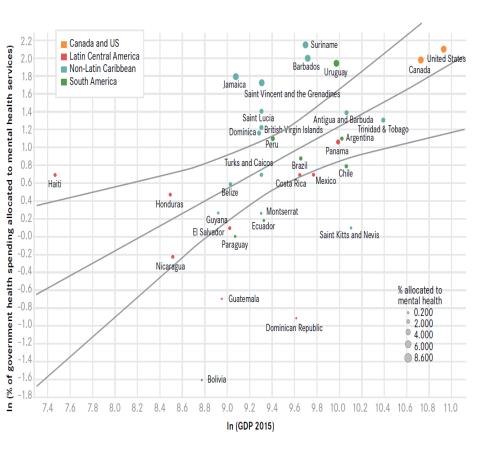


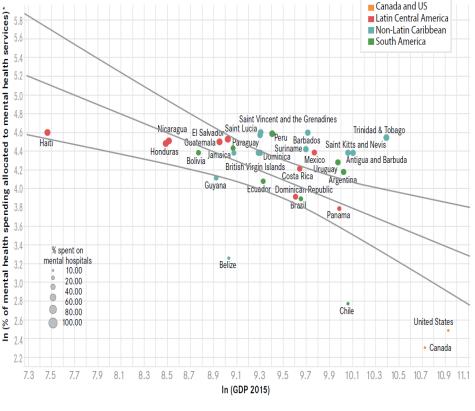
Neurocognitive disorders YLDs as a % of total disability



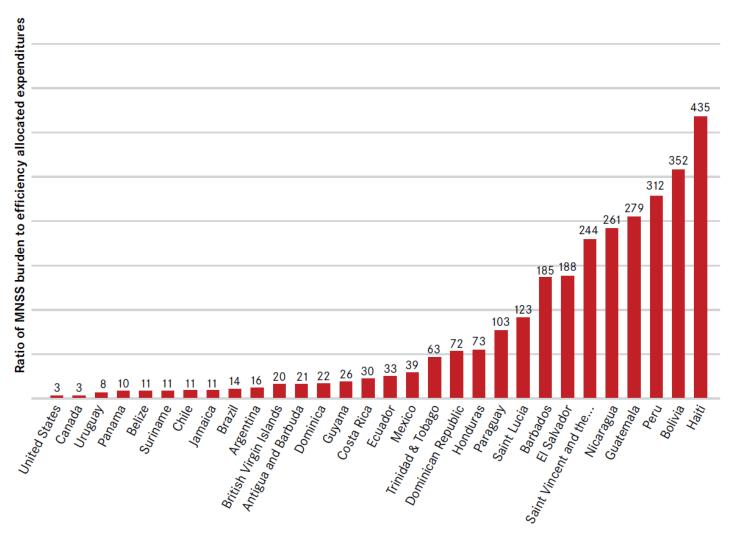
Health system response in the Americas

Higher GDP means higher % of health funds to MNSS, and less % of MNSS funds to mental hospitals





Health system response in the Americas



Health system response in the Americas

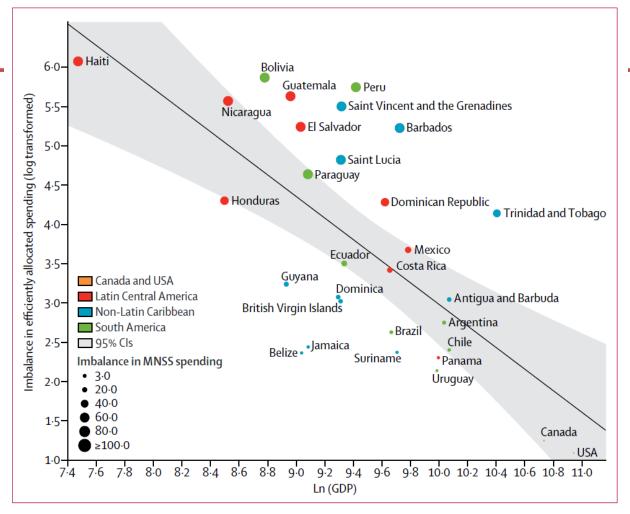


Figure 5: Imbalance in efficiently allocated spending vs GDP

 β_2 =-1·38 (-1·97 to -0·78). Linear model: Ln((% MNSS DALYs - 69% × schizophrenia DALYs)/(% mental health spending – [% mental health spending × % psychiatric hospital spending]))=-1·38 × Ln(GDP2015) + 16·1883; R²=0·44; p=0·0001. MNSS=mental, neurological, and substance use disorders, and self-harm. GDP=gross domestic product.

Summary

- MNSS represent
 - -1/5th of total DALYs
 - Country spread of 9 to 23%
 - -1/3rd of total YLDs
 - Country spread of 28 to 36%
- Common mental illness:
 - >50% of MNSS burden throughout the working years
- Suicide: Sub-regional clusters
 - Guiana, Suriname, and Trinidad y Tobago
 - US & Canada
 - South America

Summary

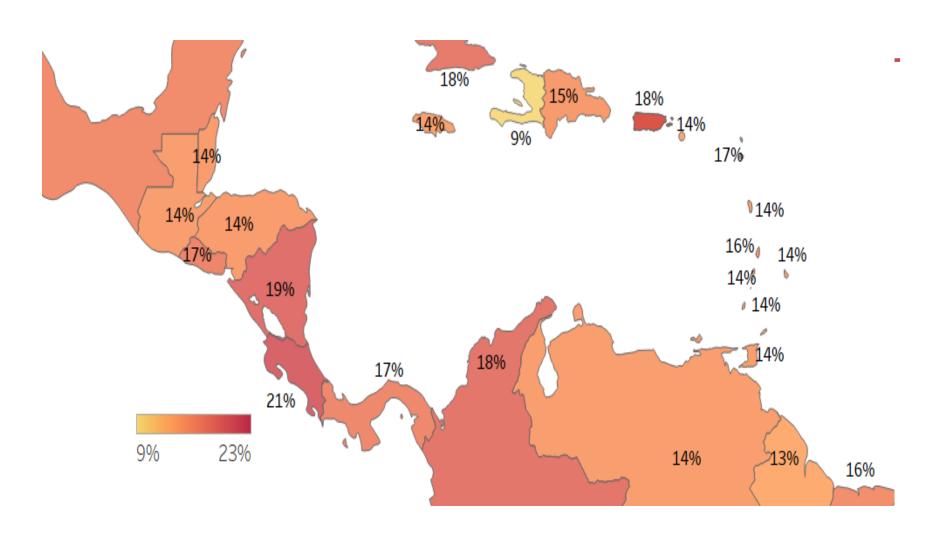
- South America has higher proportions of disability due to common mental illness
- Central America has a larger proportion of disability due to bipolar and childhood onset disorders, as well as due to epilepsy
- USA and countries with higher icome suffer a high toll of disability from schizophrenia and dementia, as well as from devastating rates of opioid-use disorder

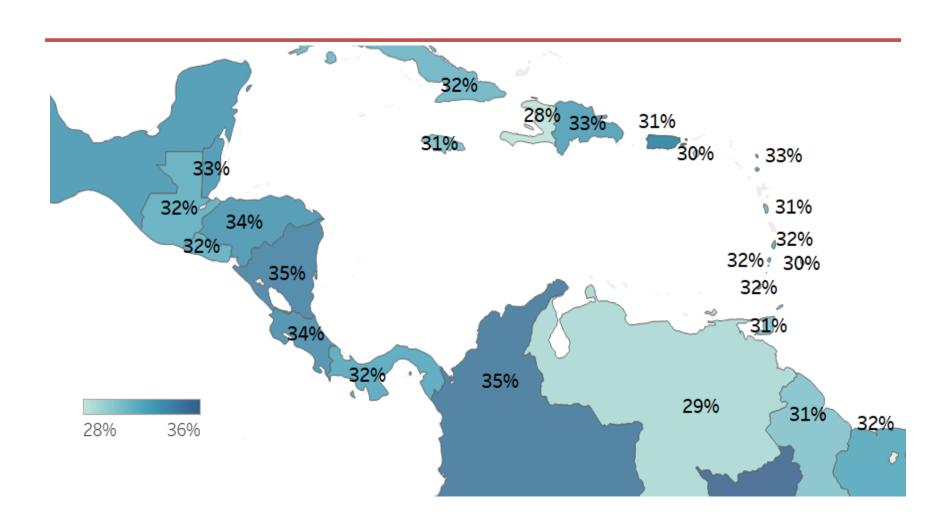
Summary

- The health system's response to mental is correlated with GDP
- Higher income countries spend a larger share of their health budgets on mental health services, and allocate their spending more efficiently
- Lower-income settings compound scarcity of resources by allocating them to specialized neuropsychiatric hospitals
- Large imbalance between % of total burden caused by MNSS and % of health expenditures efficiently allocated to mental health:
 - Burden is three times the spending in the highest-income countries and 435 times the spending in lowest-income country
- There is potential to make meaningful improvements by prioritizing funding of community-based mental health services.

Thank you!

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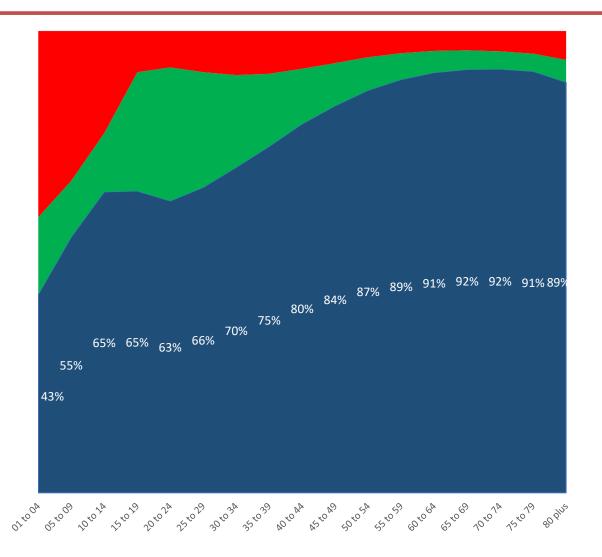




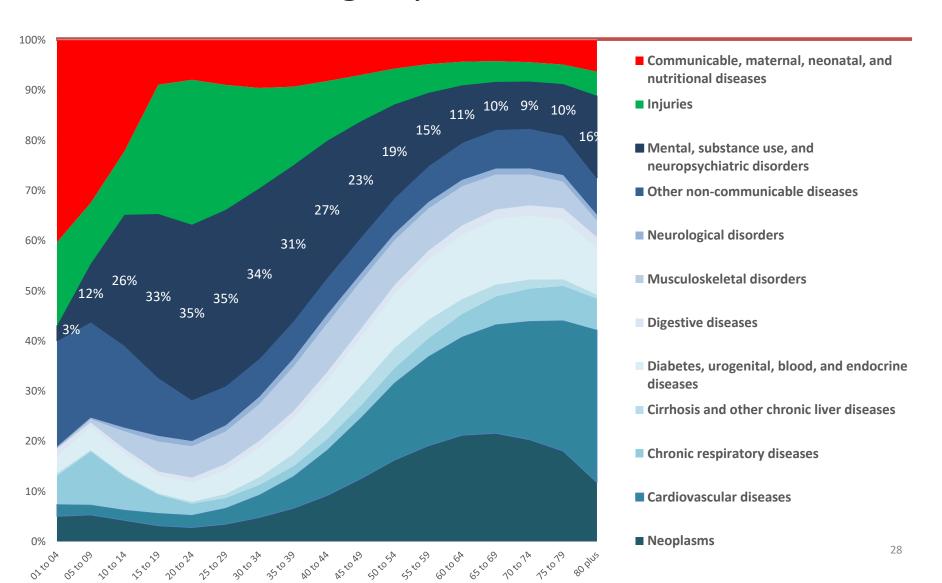
Next steps:

• Life course perspective

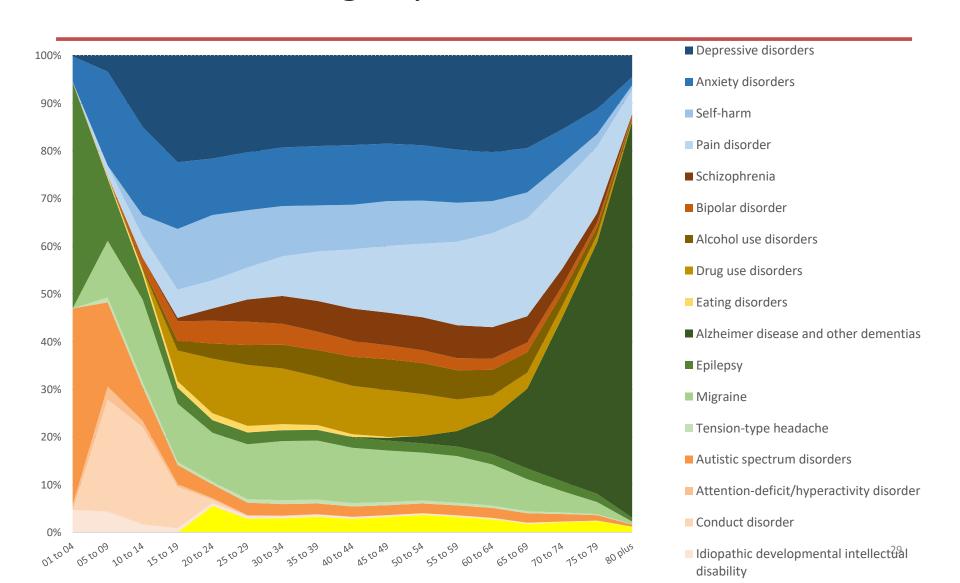
A life-course perspective: age-specific DALYs Communicable, maternal, perinatal, Injuries, NCDs



A life-course perspective: age-specific DALYs



A life-course perspective: age-specific DALYs



Next steps:

- Country specific reports:
 - Health priorities as determined by disease burden
 - Disability and mortality resulting from MNSS in relation to other health priorities
 - Disability and mortality across the life-course and across men and women