The Global Burden of Alcohol

Results from the Global Burden of Disease Study 2015

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GBD study

- Goal: Provide a comprehensive, quantitative picture of global health burden.
- Collects over 30k data sources for 249 causes of death, 315 diseases, disabilities, and injuries, and 79 risk factors.
- Approach:
  - Use all available health data.
  - Use modeling to provide complete location/age/sex estimates.
  - Quantify risk using comparative risk assessment approach.
GBD alcohol-use risk factor approach

- Model exposure in terms of grams per day.
  - Population-level from sales data
  - Individual-specific trends from survey data
- Measure risk for each cause through comprehensive meta-analysis on relative risks.
  - Modeled as a dose-response relationship in grams per day. Determines population attributable fraction.
  - Combined with causes of death estimates to calculate burden due to alcohol

Results

Alcohol use
Both sexes, All ages, 2015, Percent of total DALYs
Results

Alcohol Use
Both sexes, all ages

Australasia
All causes attributable to Alcohol use
Females, age-standardized

Percent of total DALYS

Year

Australasia
All causes attributable to Alcohol use
Males, age-standardized

Percent of total DALYS

Australasia, males, 15-49, 2015

Australasia, males, 50-69, 2015

DALYS per 100k

Age group

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Full results and networking

Data & results: https://vizhub.healthdata.org/gbd-compare/
My email: mgriswol@uw.edu

Collaboration: http://www.healthdata.org/gbd/call-for-collaborators