



# Leading risks in Russia: Results from GBD 2017

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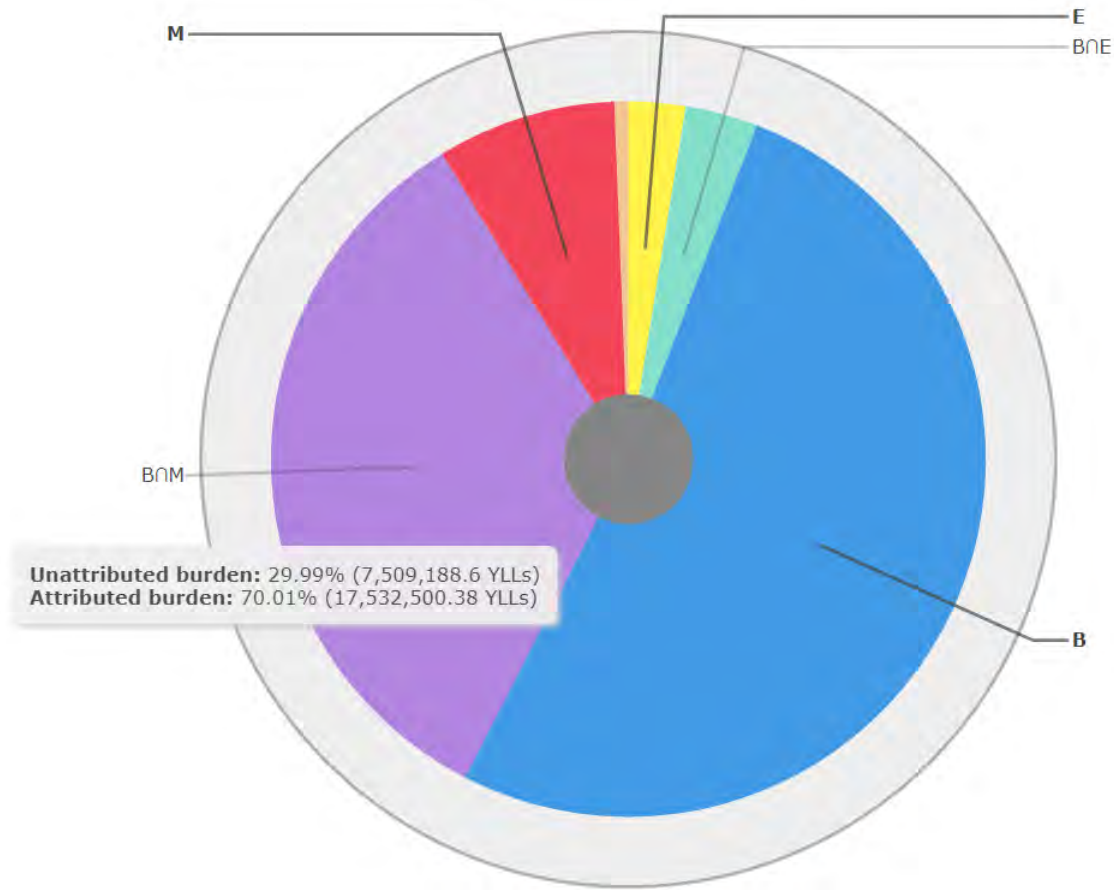
Jeffrey Stanaway, MPH PhD

# Risk-attributable fatal burden in Russia, 2017

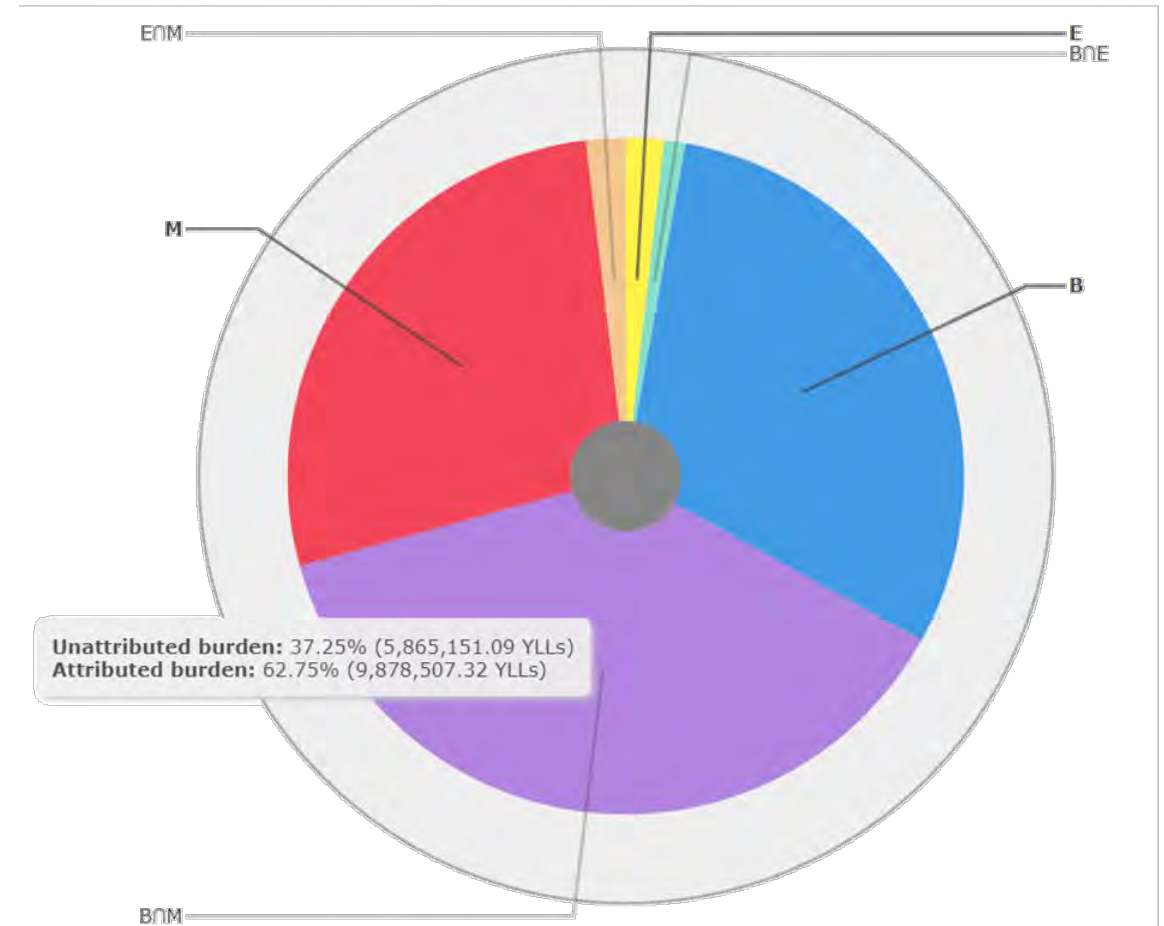
- 1.83 million (1.82 -1.85) deaths in 2017
- 70.6% attributed to risk factors in GBD analysis
  
- 40.8 million (26.7 – 28.1) YLLs
- 67.2% attributed to risk factors

# Years of life lost to premature mortality (YLLs)

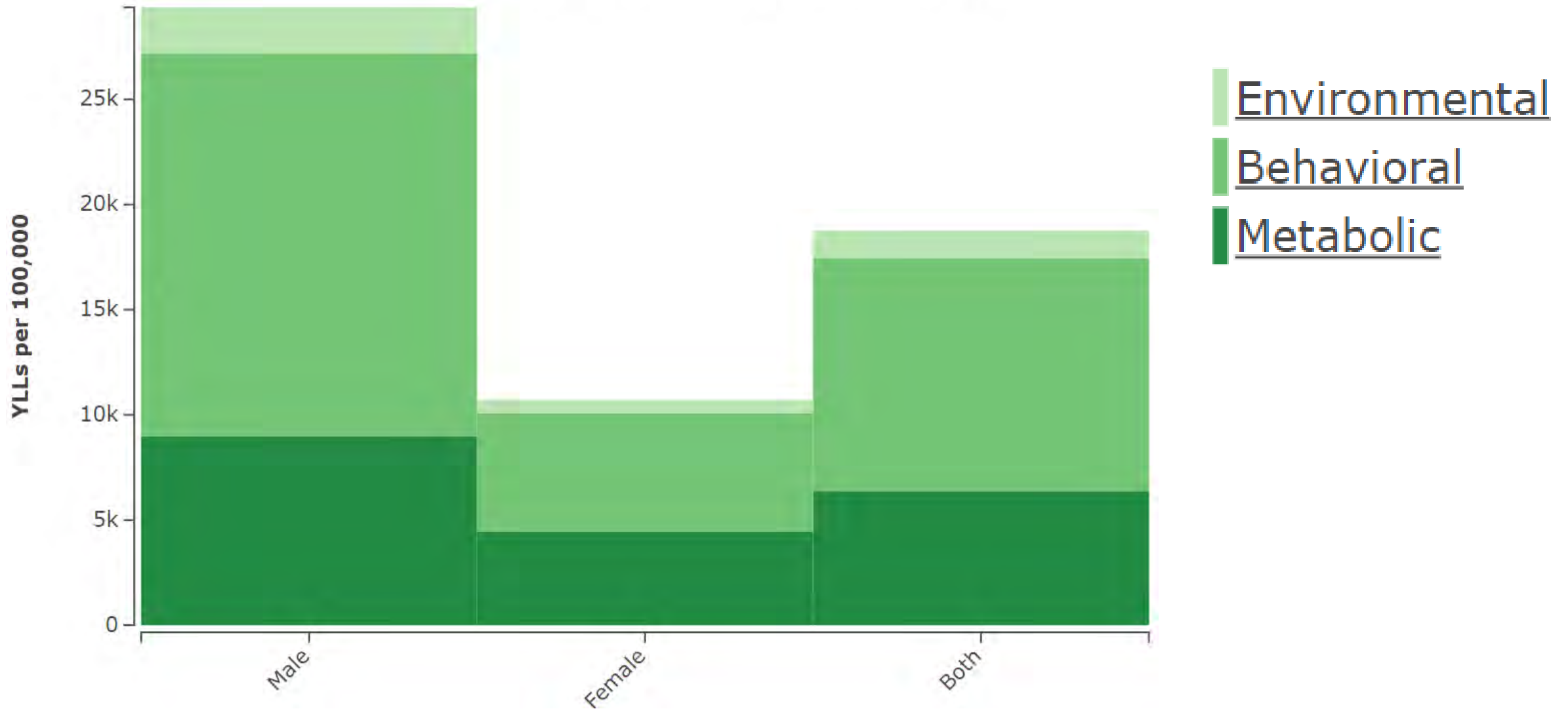
## Males



## Females



Russian Federation, Age-standardized, 2017



# Years of life lost to premature mortality (YLLs)

## Males

- 1 Smoking
- 2 Alcohol use
- 3 High systolic blood pressure
- 4 High LDL cholesterol
- 5 High body-mass index
- 6 High fasting plasma glucose
- 7 Diet low in whole grains
- 8 Diet low in fruits
- 9 Diet low in nuts and seeds
- 10 Particulate matter pollution

## Females

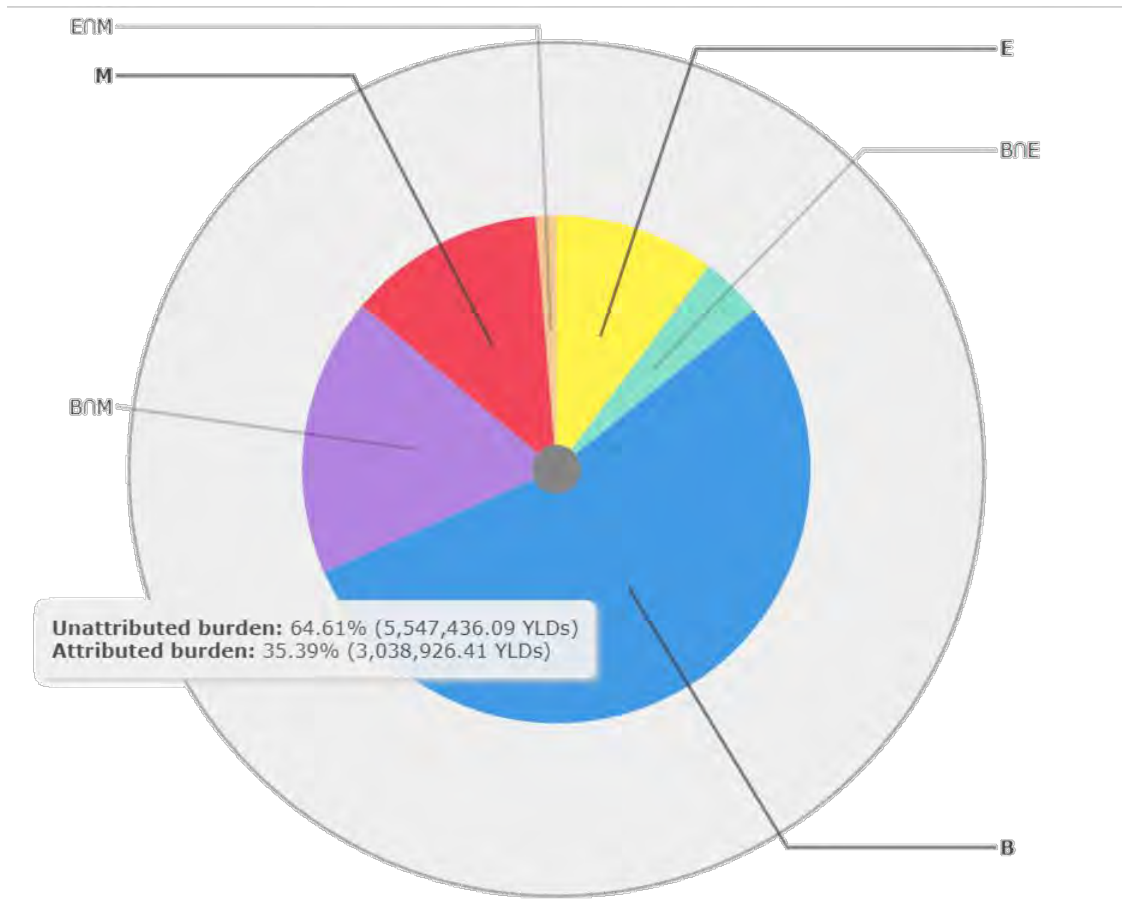
- 1 High systolic blood pressure
- 2 High body-mass index
- 3 High LDL cholesterol
- 4 High fasting plasma glucose
- 5 Diet low in whole grains
- 6 Impaired kidney function
- 7 Alcohol use
- 8 Smoking
- 9 Diet low in nuts and seeds
- 10 Diet low in fruits

# Risk-attributable nonfatal burden in Russia, 2017

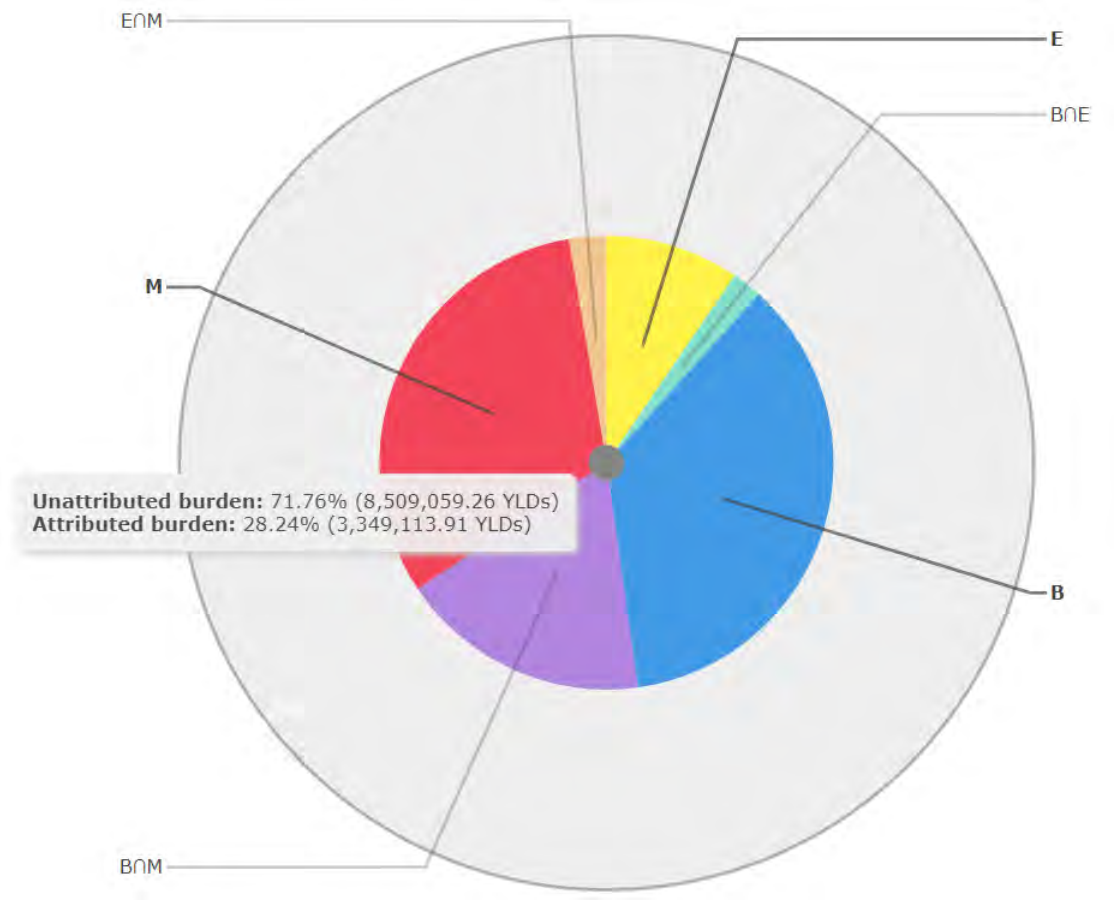
- 20.4 million (15.4 – 26.3) YLDs
- 31.3% (29.2 – 33.1) attributed to risk factors

# Years lived with disability (YLDs)

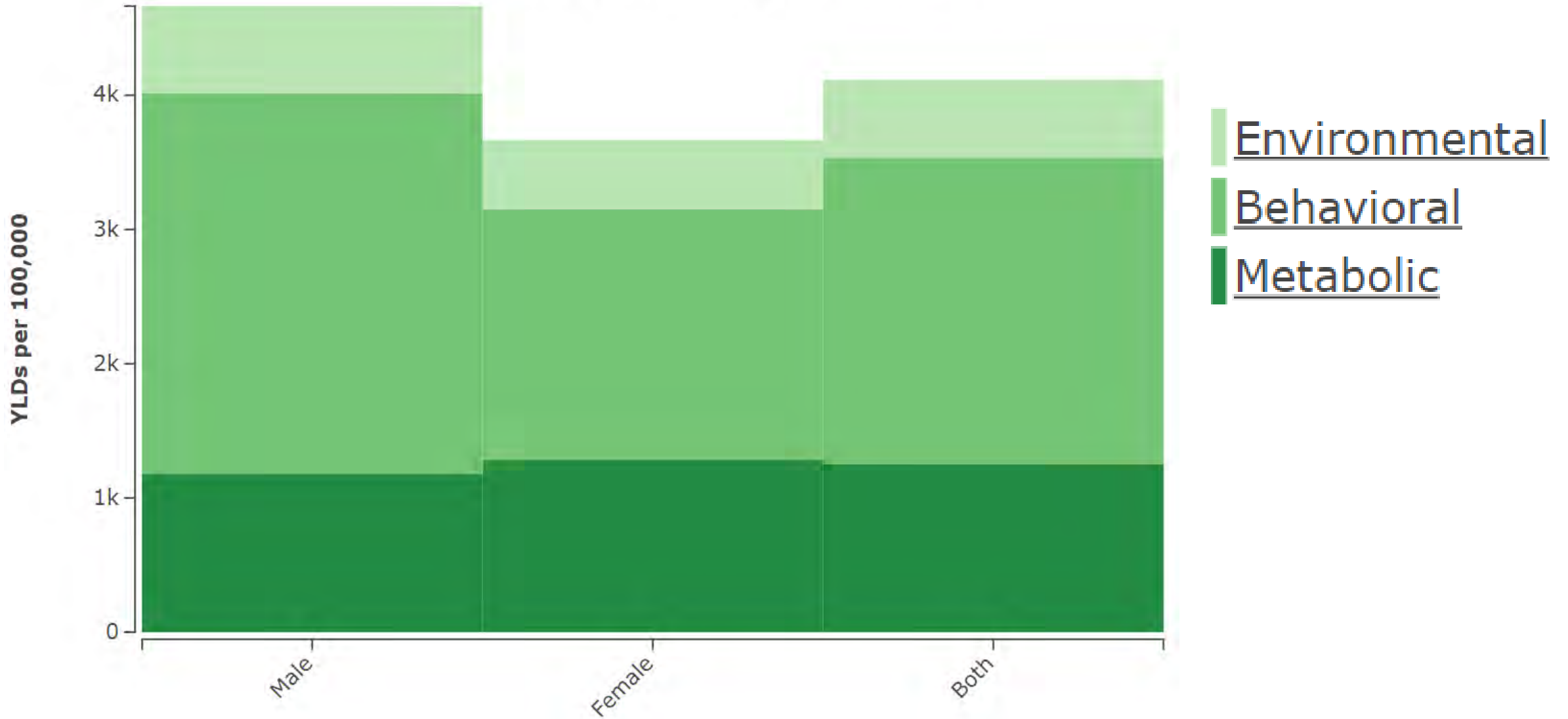
## Males



## Females



Russian Federation, Age-standardized, 2017





# Years lived with disability (YLDs)

## Males

- 1 Alcohol use
- 2 Smoking
- 3 High body-mass index
- 4 High fasting plasma glucose
- 5 High systolic blood pressure
- 6 Drug use
- 7 Diet low in whole grains
- 8 Occupational ergonomic factors
- 9 Occupational injuries
- 10 Diet low in fruits

## Females

- 1 High body-mass index
- 2 High fasting plasma glucose
- 3 High systolic blood pressure
- 4 Alcohol use
- 5 Smoking
- 6 Diet low in whole grains
- 7 High LDL cholesterol
- 8 Particulate matter pollution
- 9 Low bone mineral density
- 10 Impaired kidney function

# Leading risks for DALYs, both sexes

1 High systolic blood pressure

2 Smoking

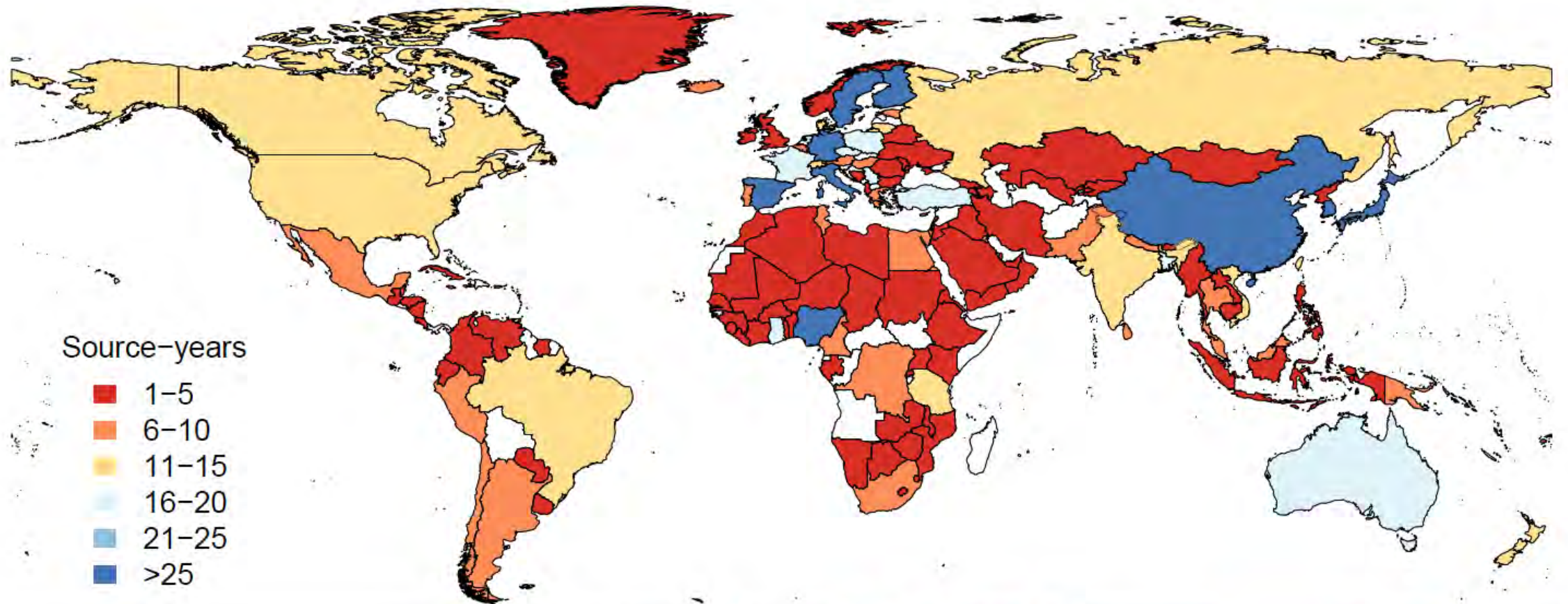
3 Alcohol use

4 High body-mass index

5 High LDL cholesterol

# High Systolic Blood Pressure

# High SBP input data



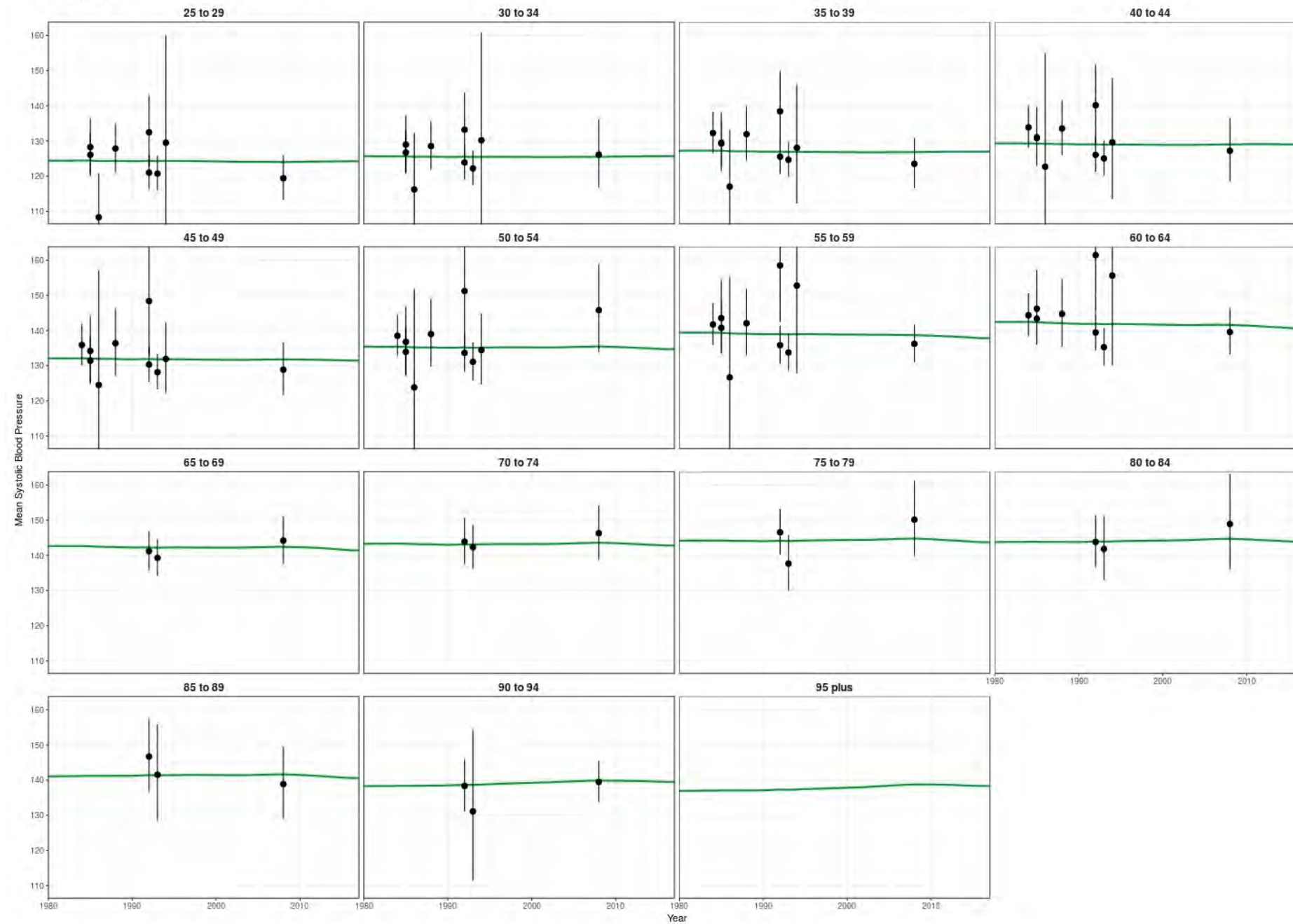
Russia WHO Study on Ageing and Adult Health

Russia Longitudinal Monitoring Survey (National Research University Higher School of Economics)

WHO CINDI Population Tables Book

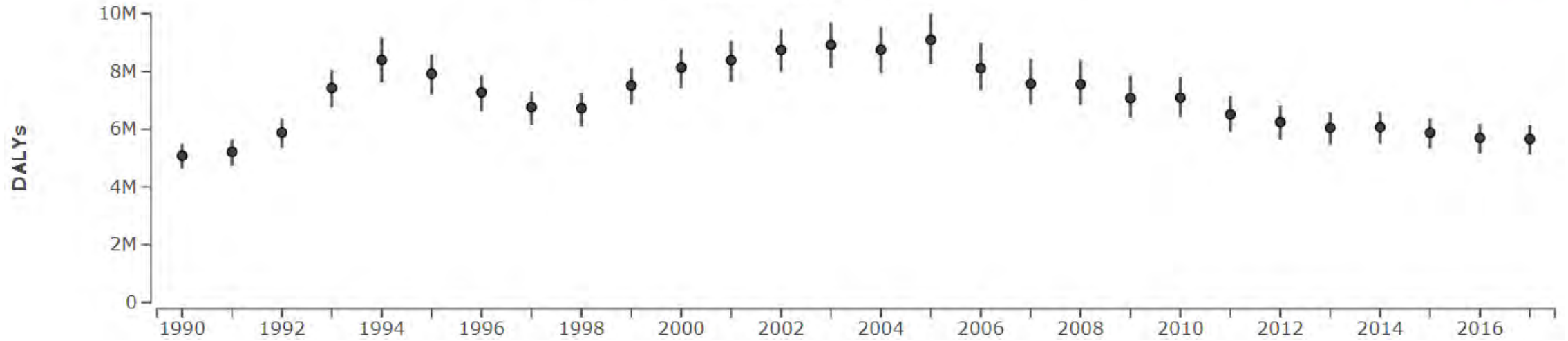
# metab\_sbp, Russian Federation, Male

Amplitude 0.014

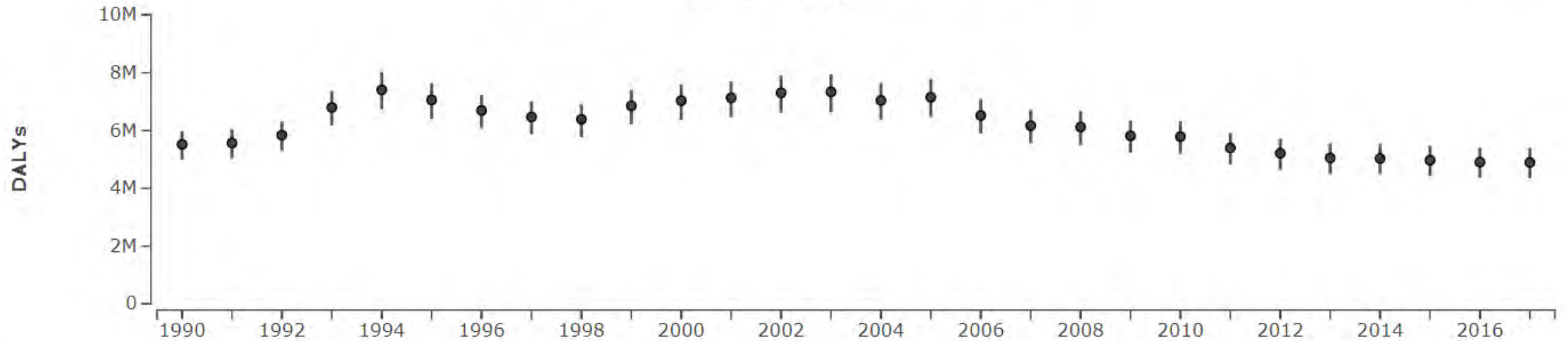


◆ Data ◆ GPR

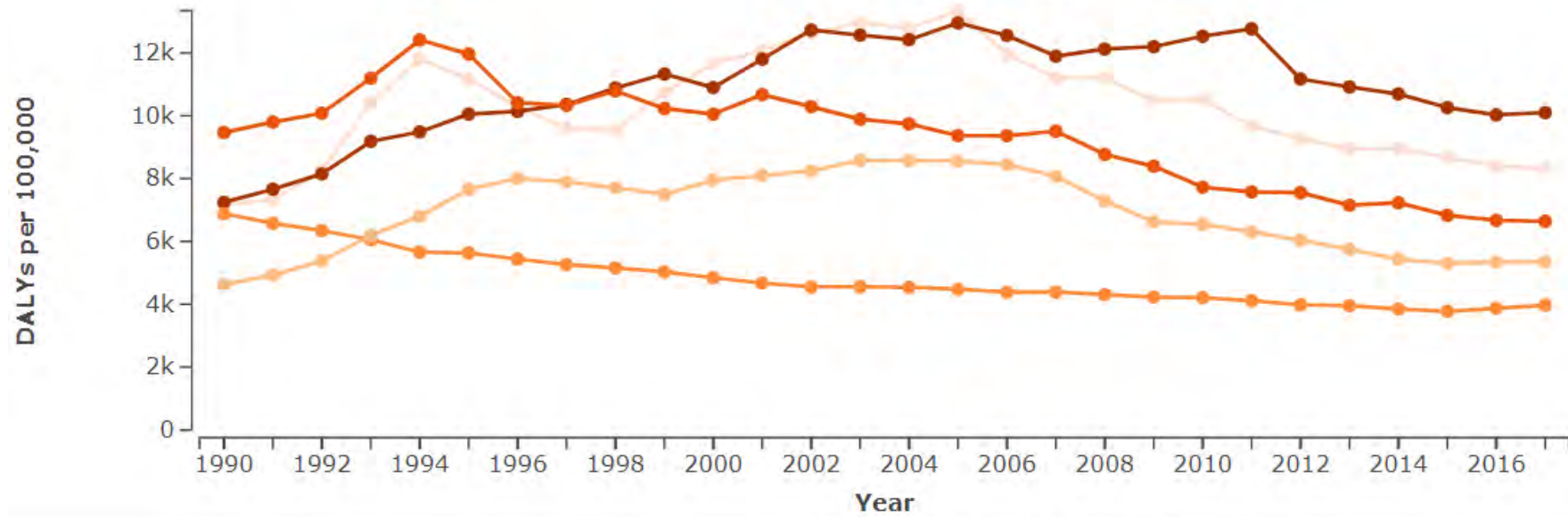
Russian Federation  
All causes attributable to High systolic blood pressure  
Males, All ages



Russian Federation  
All causes attributable to High systolic blood pressure  
Females, All ages

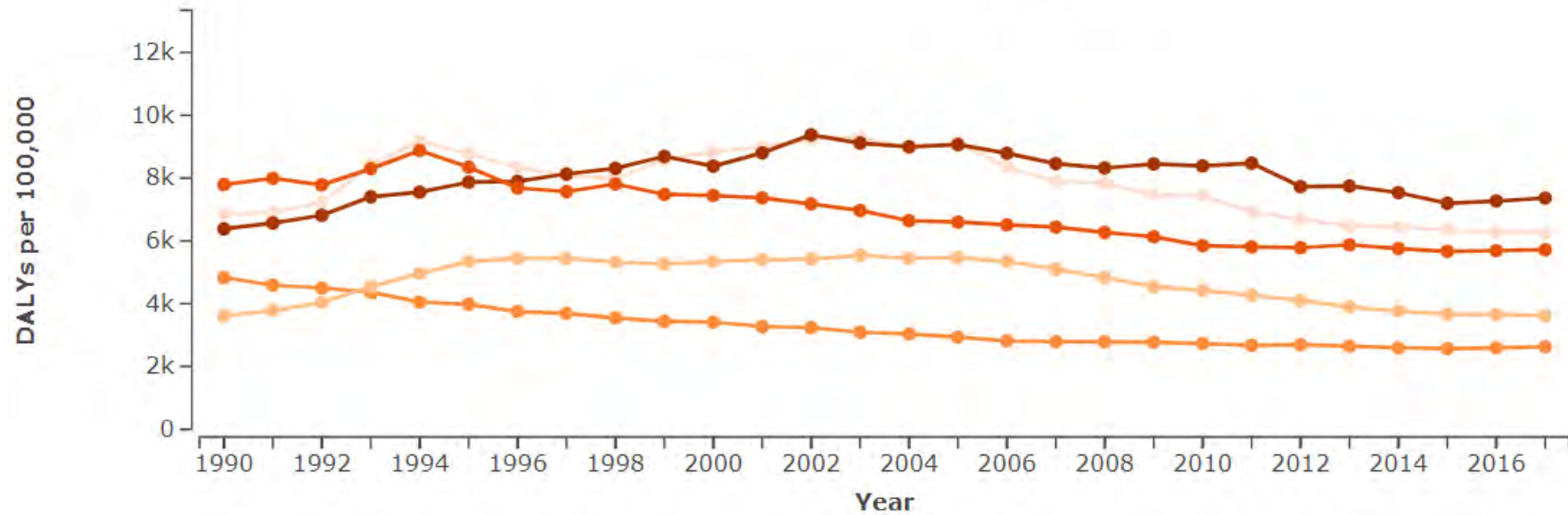


High systolic blood pressure  
Males, All ages

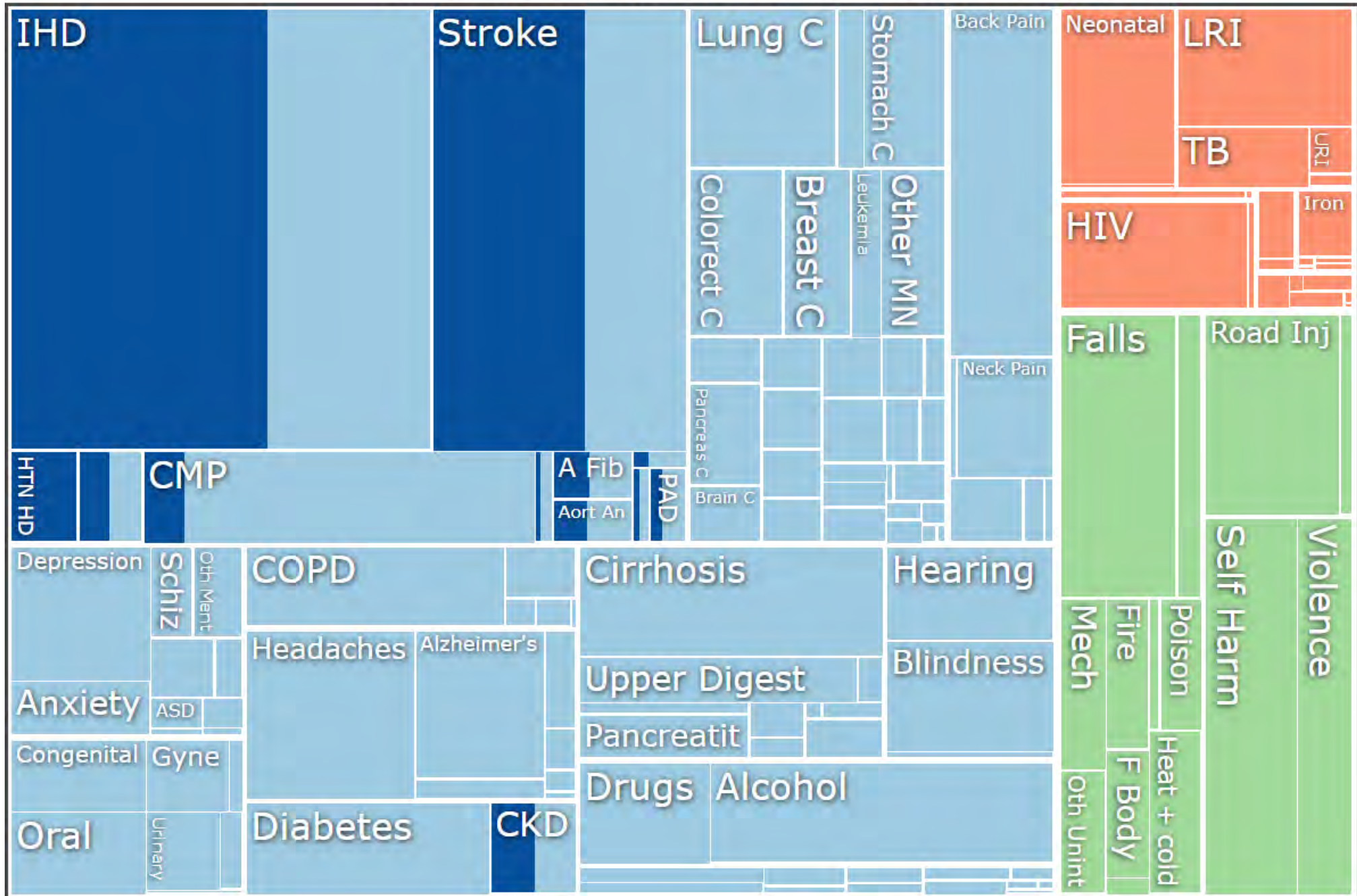


- Russian Federation
- Belarus
- Estonia
- Finland
- Kazakhstan

High systolic blood pressure  
Females, All ages

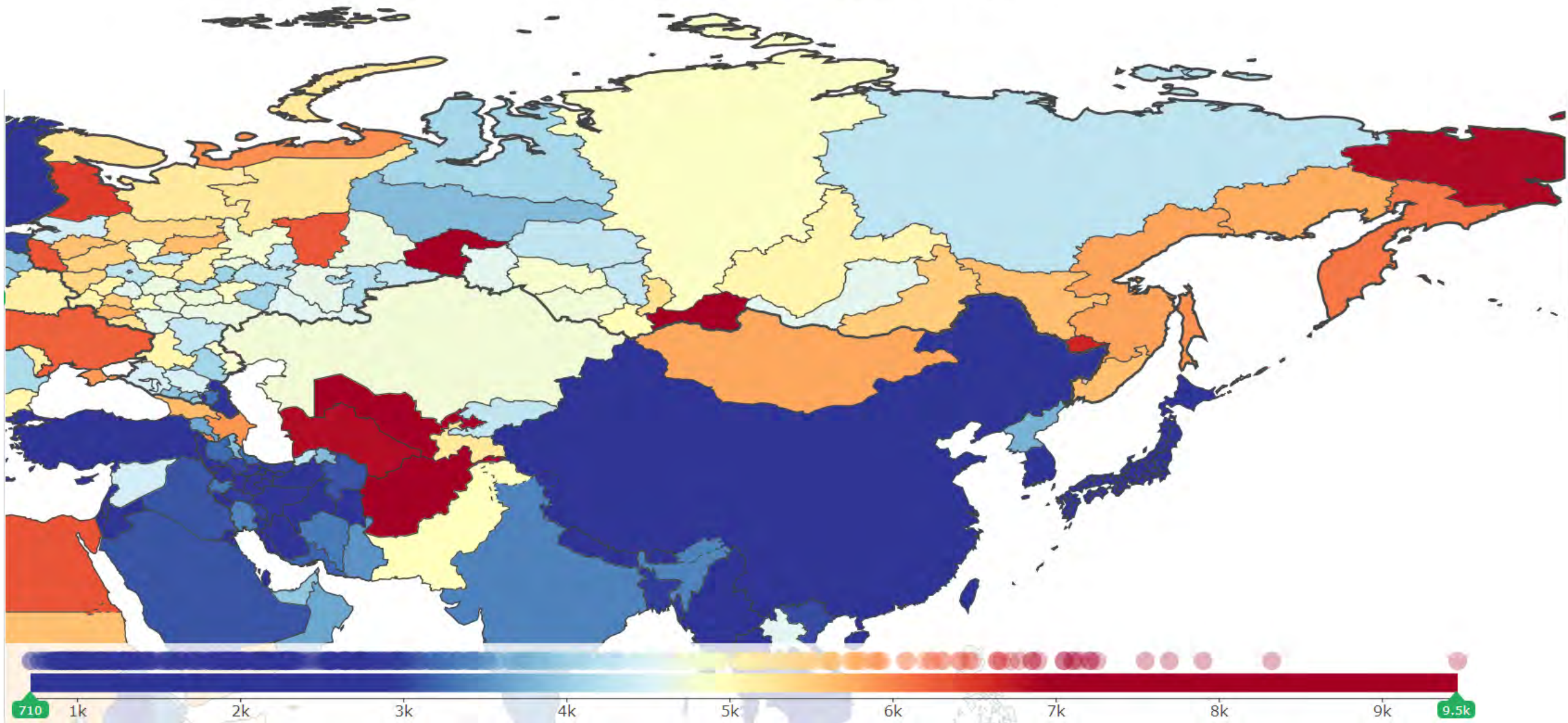


Russian Federation  
Both sexes, All ages, 2017, DALYs attributable to High systolic blood pressure



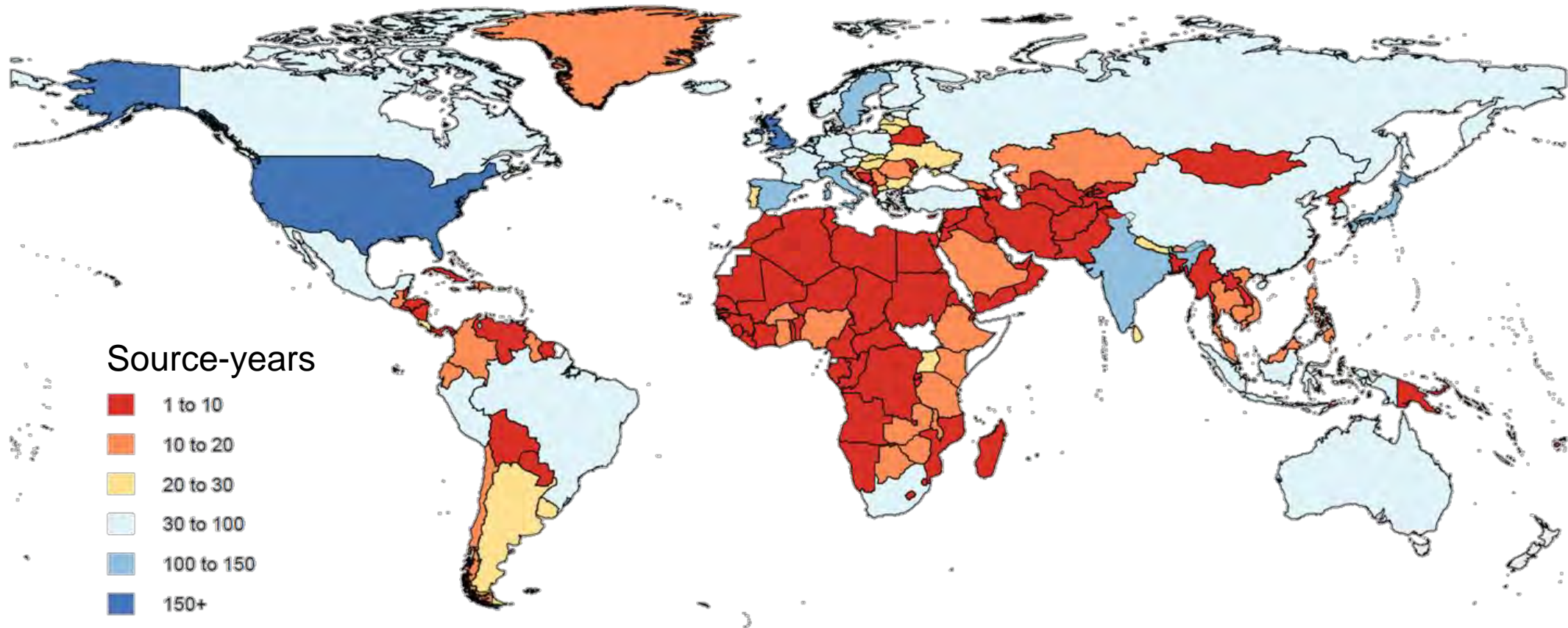


All causes attributable to High systolic blood pressure  
Both sexes, Age-standardized, 2017, DALYs per 100,000



# Alcohol

# Data coverage: alcohol

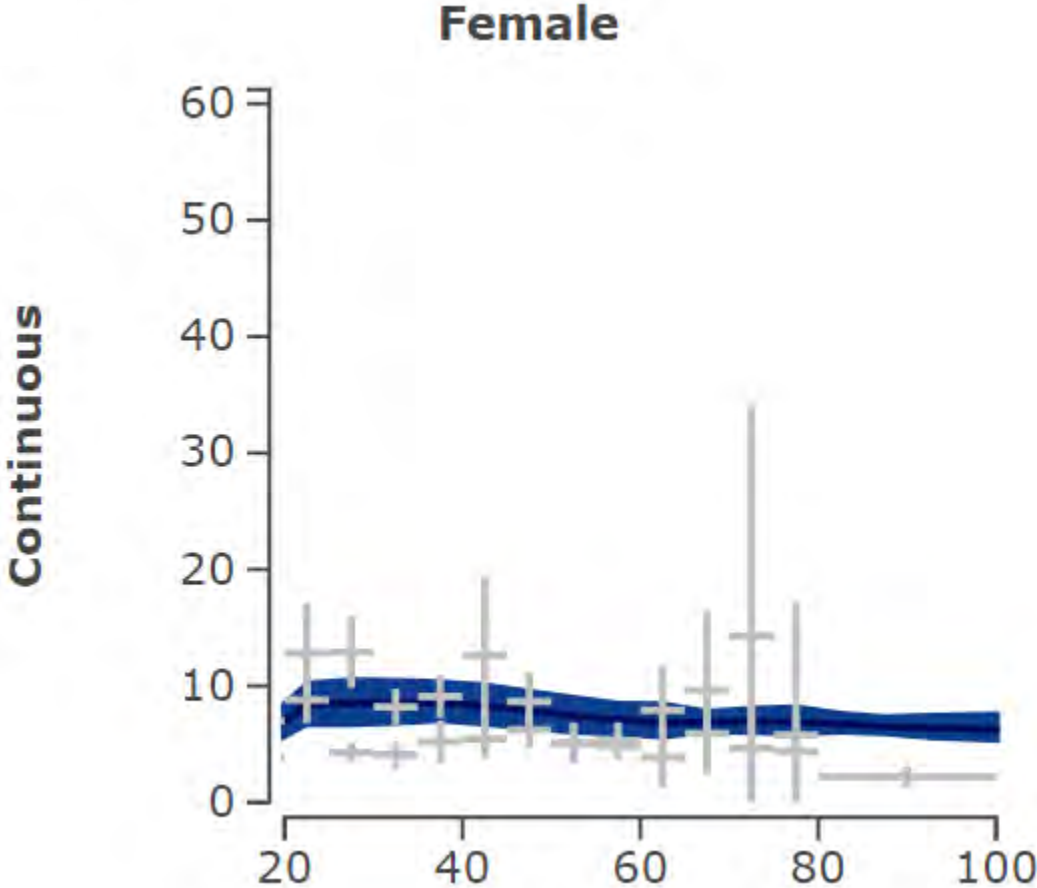
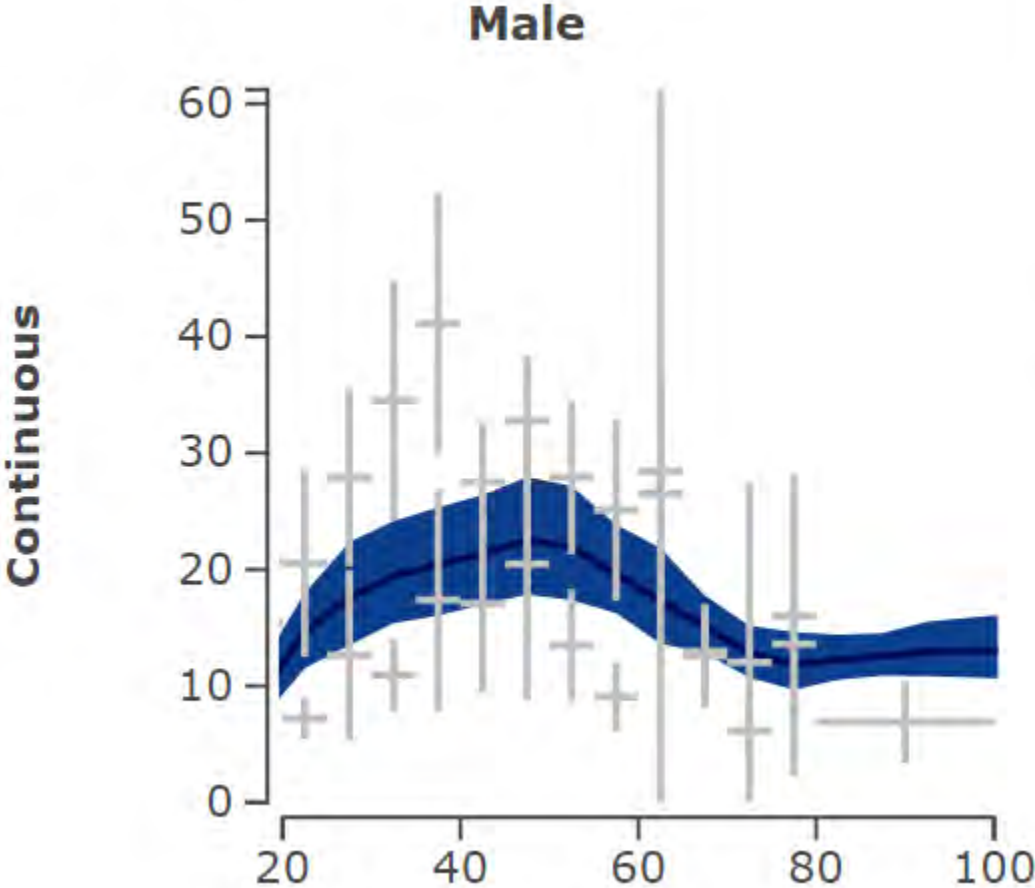


Russia World Health Survey (WHO)

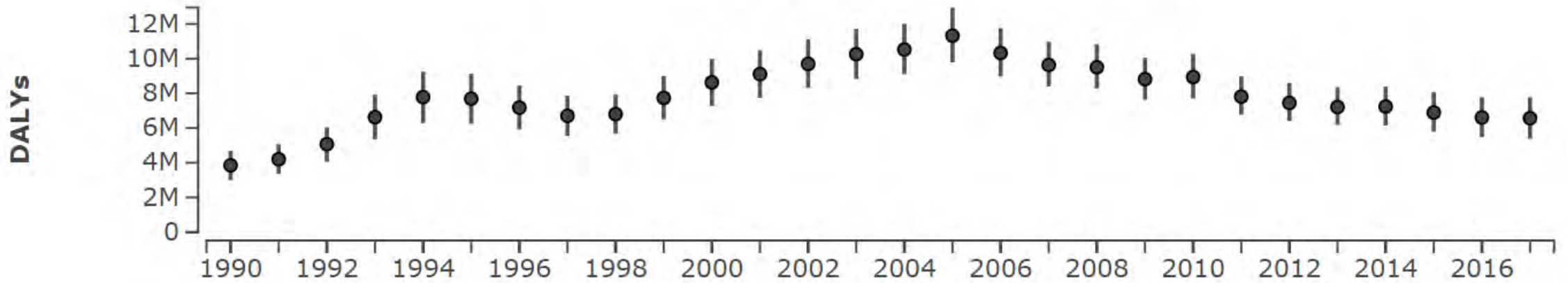
Russia Longitudinal Monitoring Survey (National Research University Higher School of Economics)

Sales data: WHO and FAO

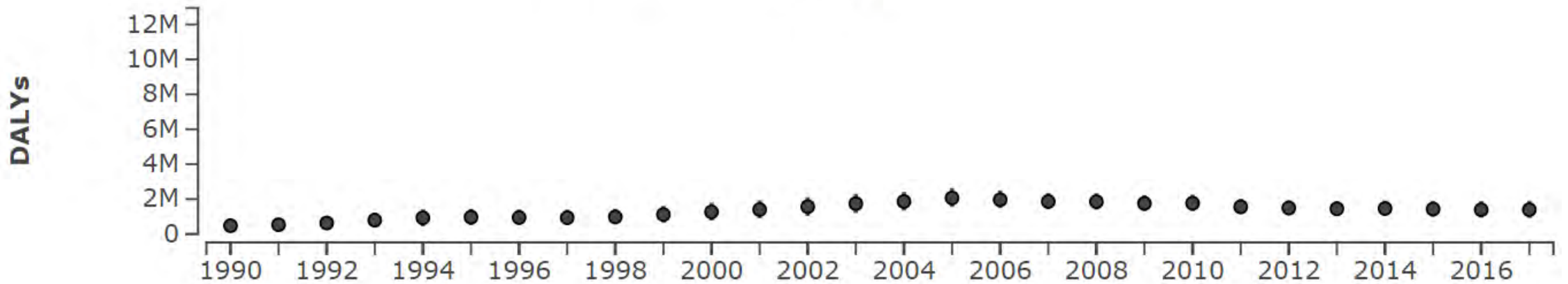
# Alcohol Consumption (grams per day)



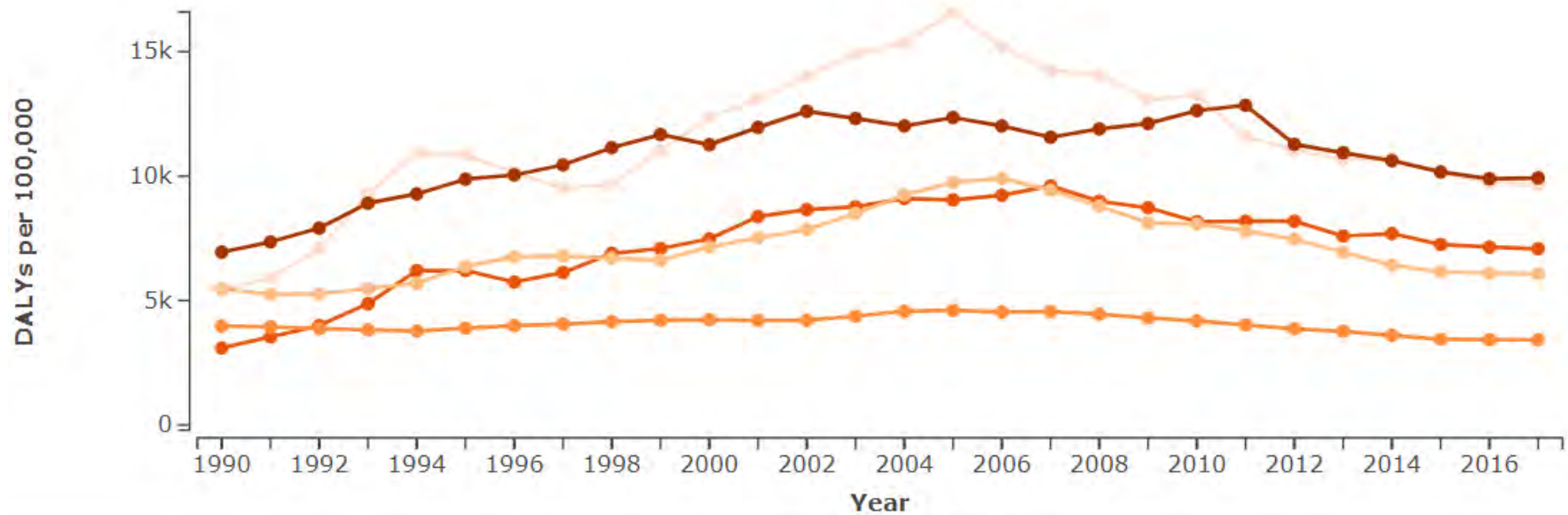
**Russian Federation**  
**All causes attributable to Alcohol use**  
**Males, All ages**



**Russian Federation**  
**All causes attributable to Alcohol use**  
**Females, All ages**

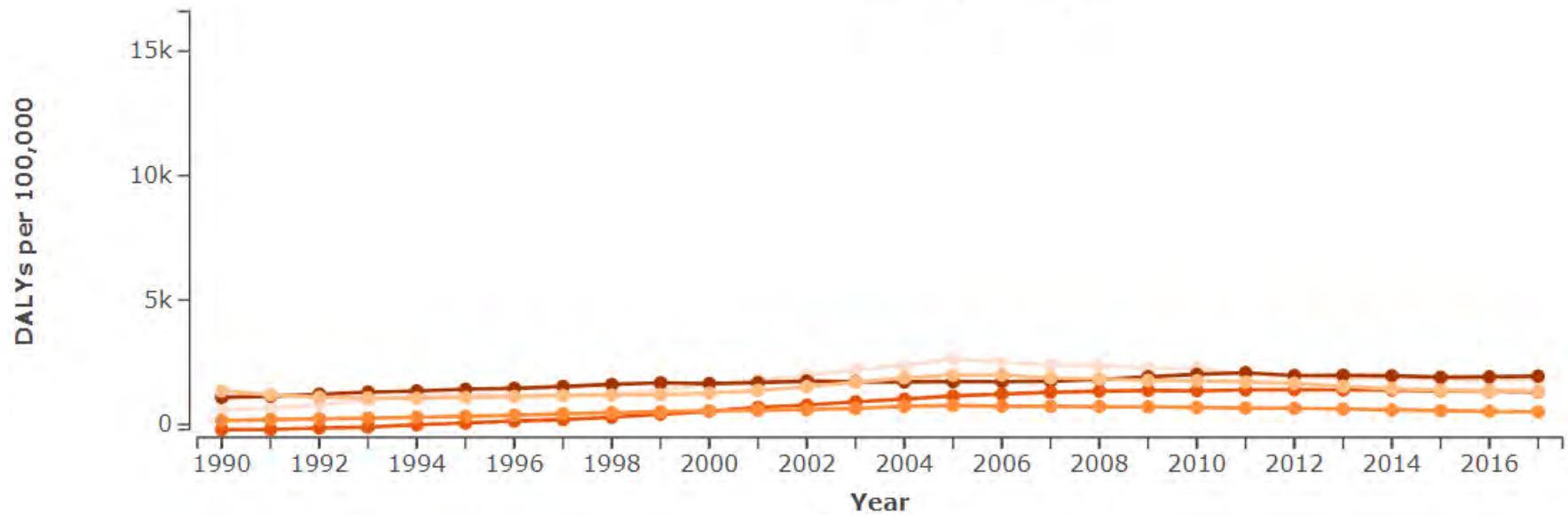


Alcohol use  
Males, All ages

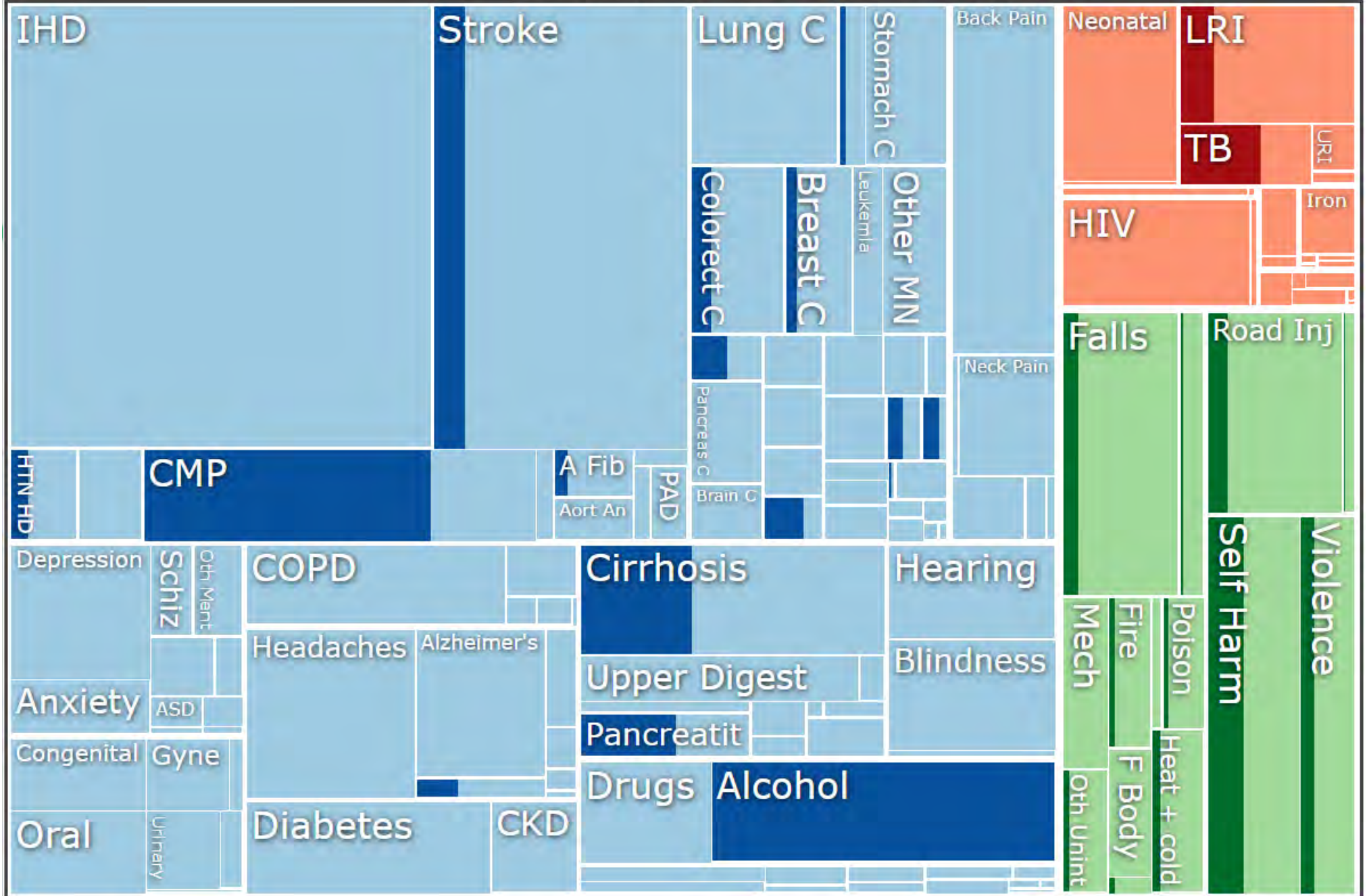


- Russian Federation
- Belarus
- Estonia
- Finland
- Kazakhstan

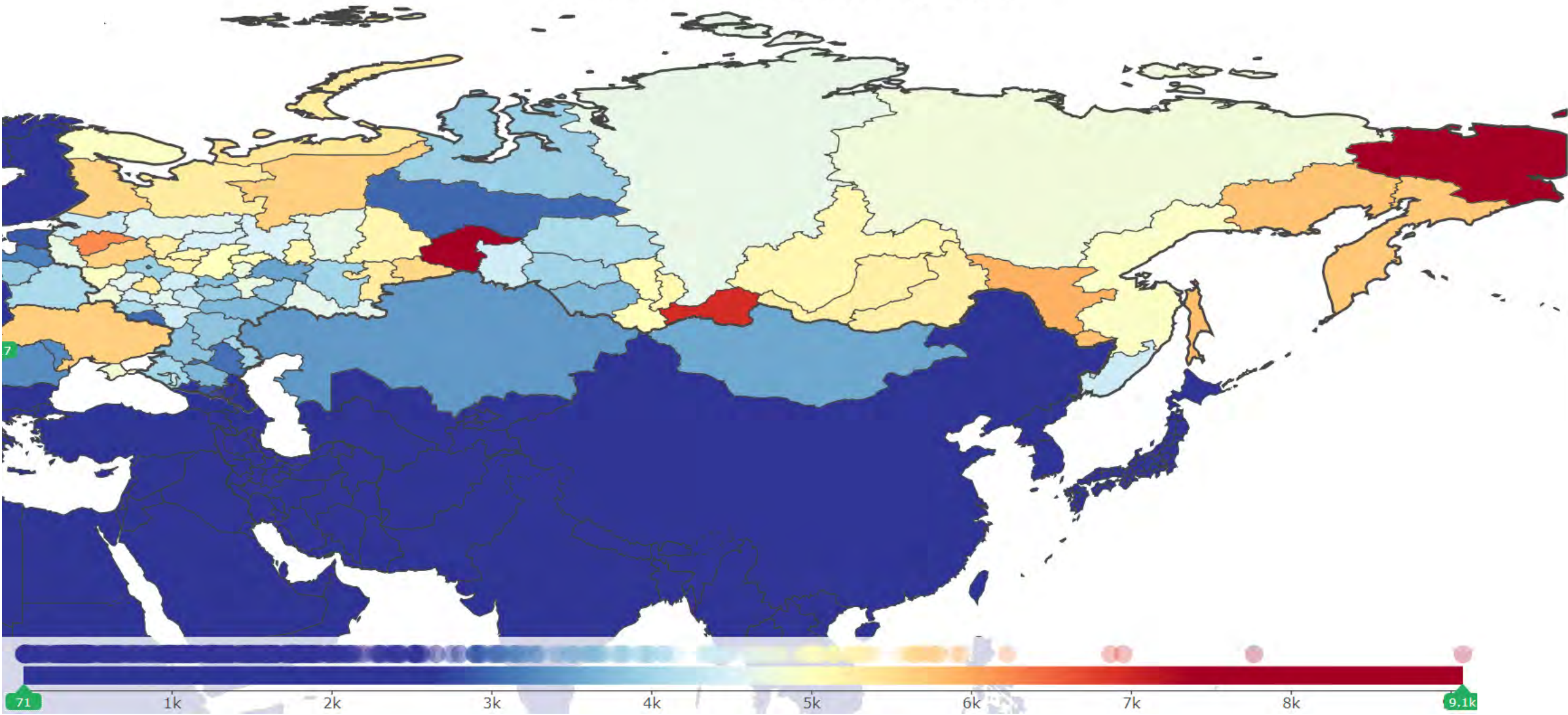
Alcohol use  
Females, All ages



Russian Federation  
Both sexes, All ages, 2017, DALYs attributable to Alcohol use



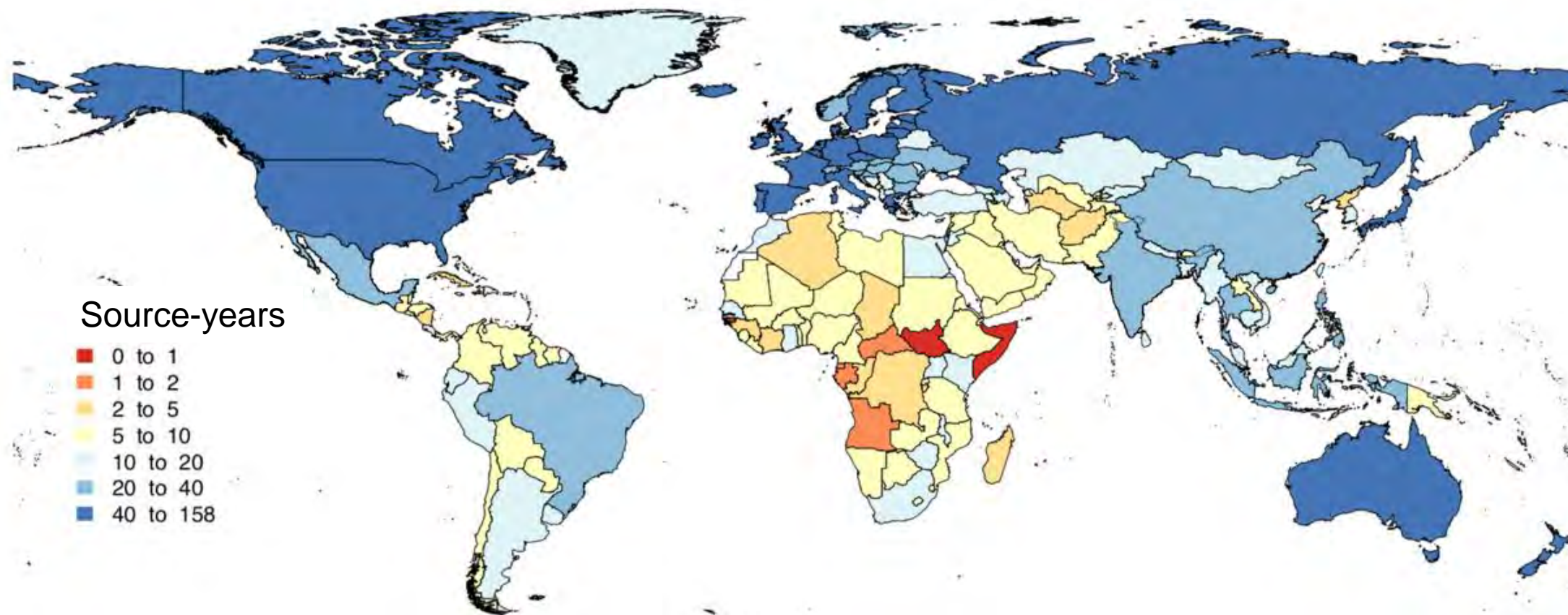
All causes attributable to Alcohol use  
Both sexes, Age-standardized, 2017, DALYs per 100,000





# Smoking

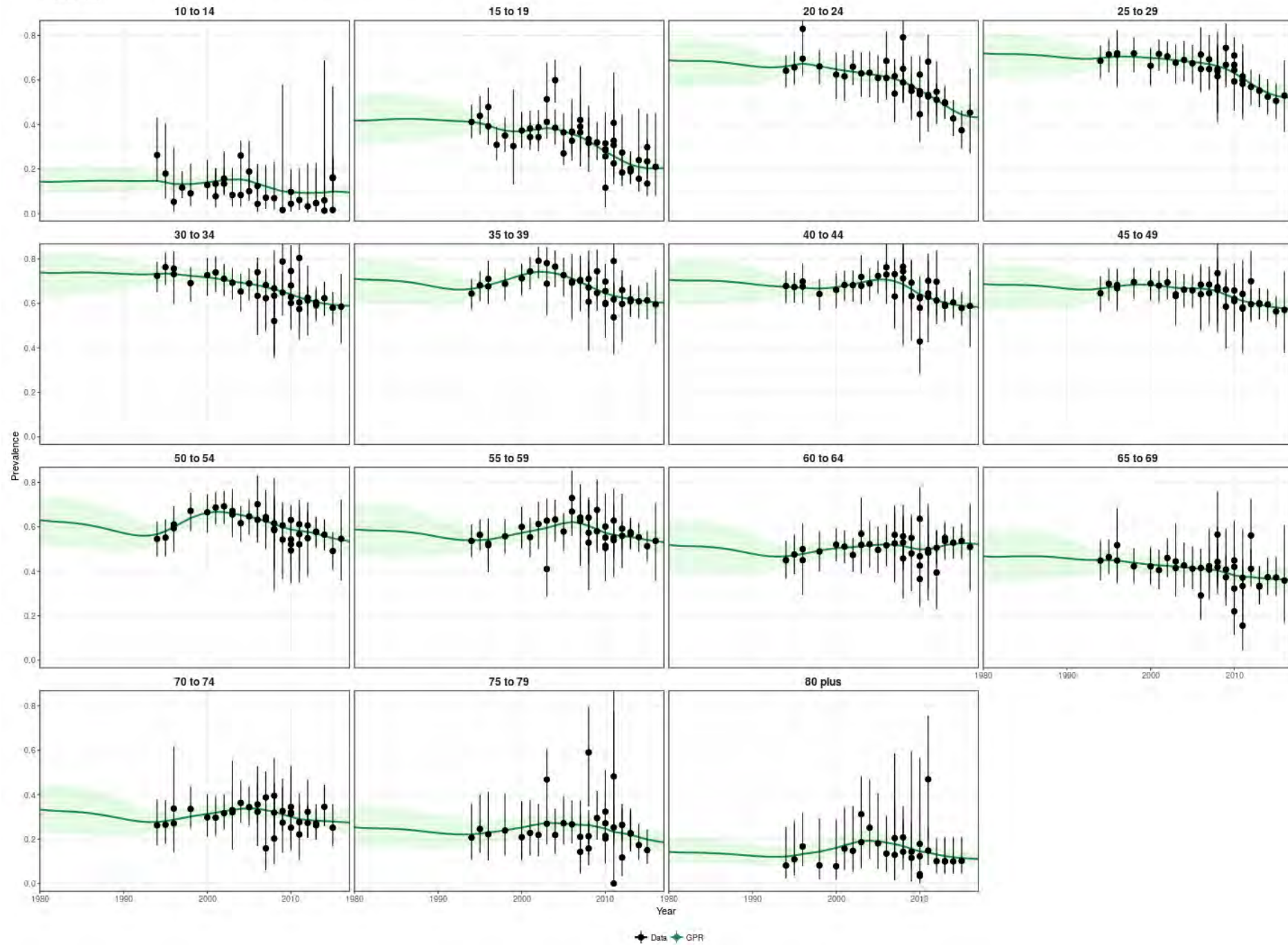
# Data coverage: Smoking prevalence



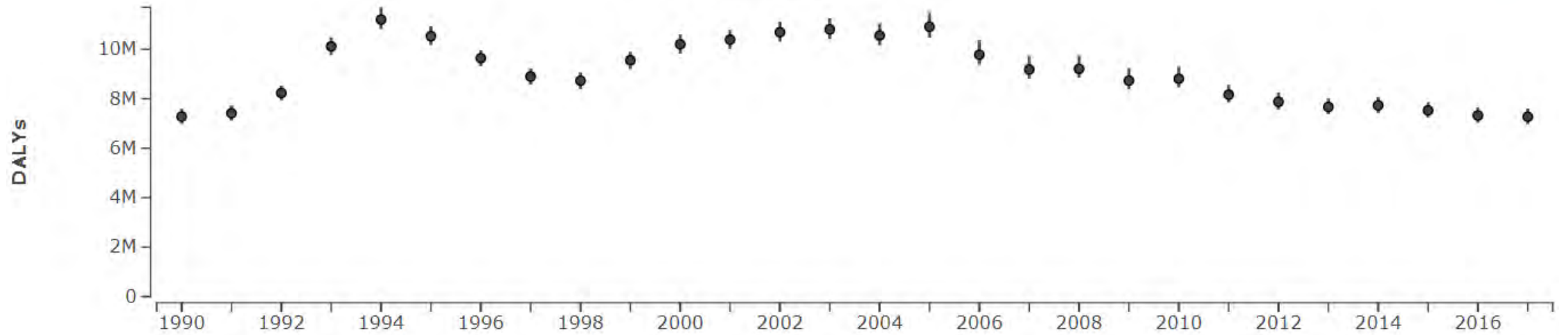
Gallup, Russia Health in Times of Transition Household Survey (Lomonosov Moscow State University), Russia Longitudinal Monitoring Survey, Russia Global Adult Tobacco Survey

# smoking\_prev\_current\_any, Russian Federation, Male

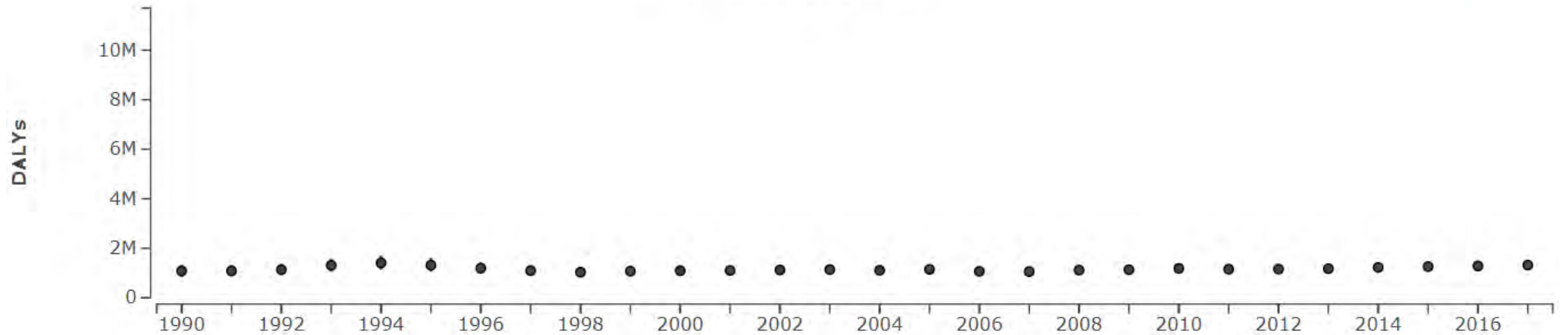
Amplitude 0.257

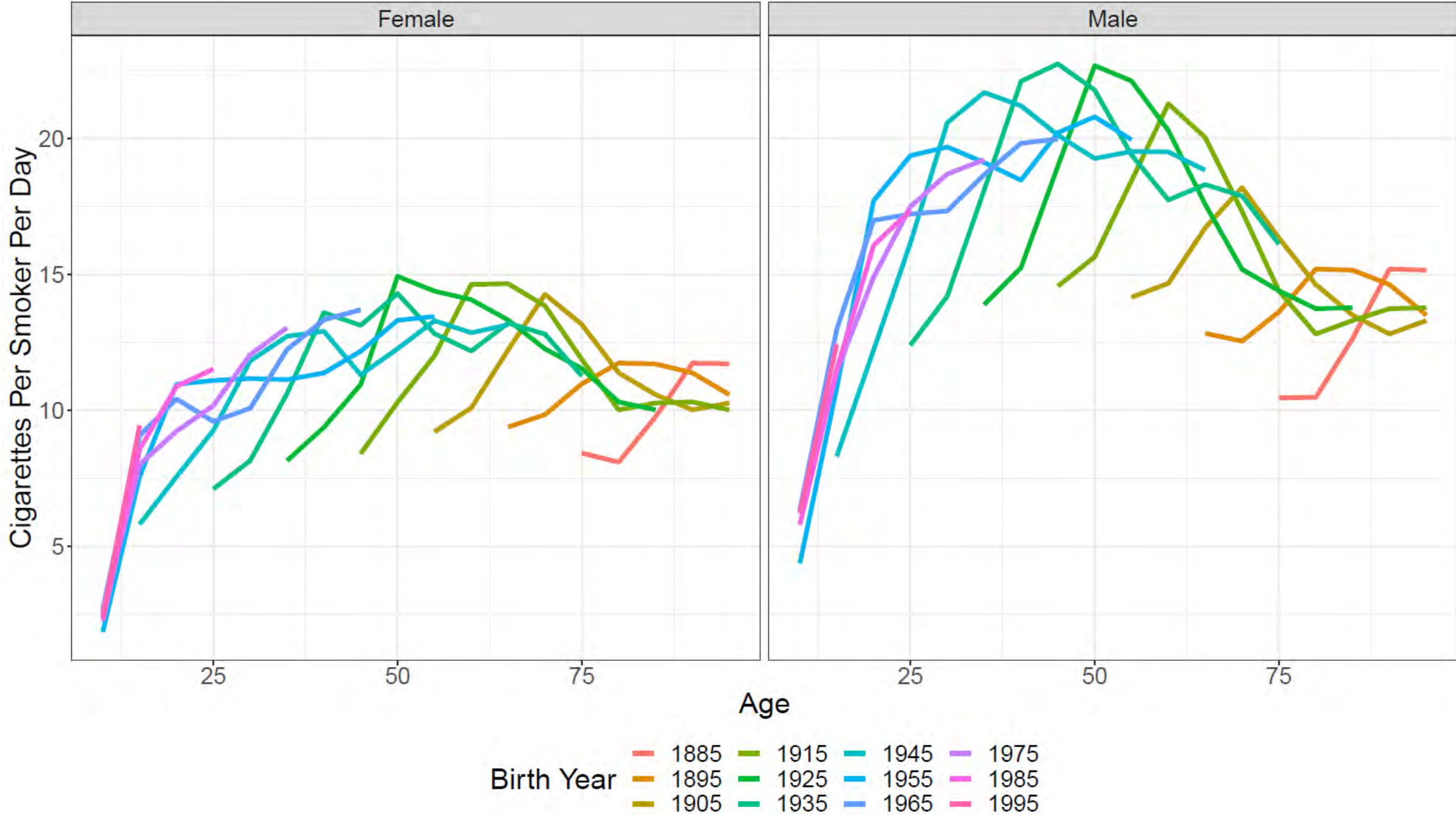


Russian Federation  
All causes attributable to Smoking  
Males, All ages

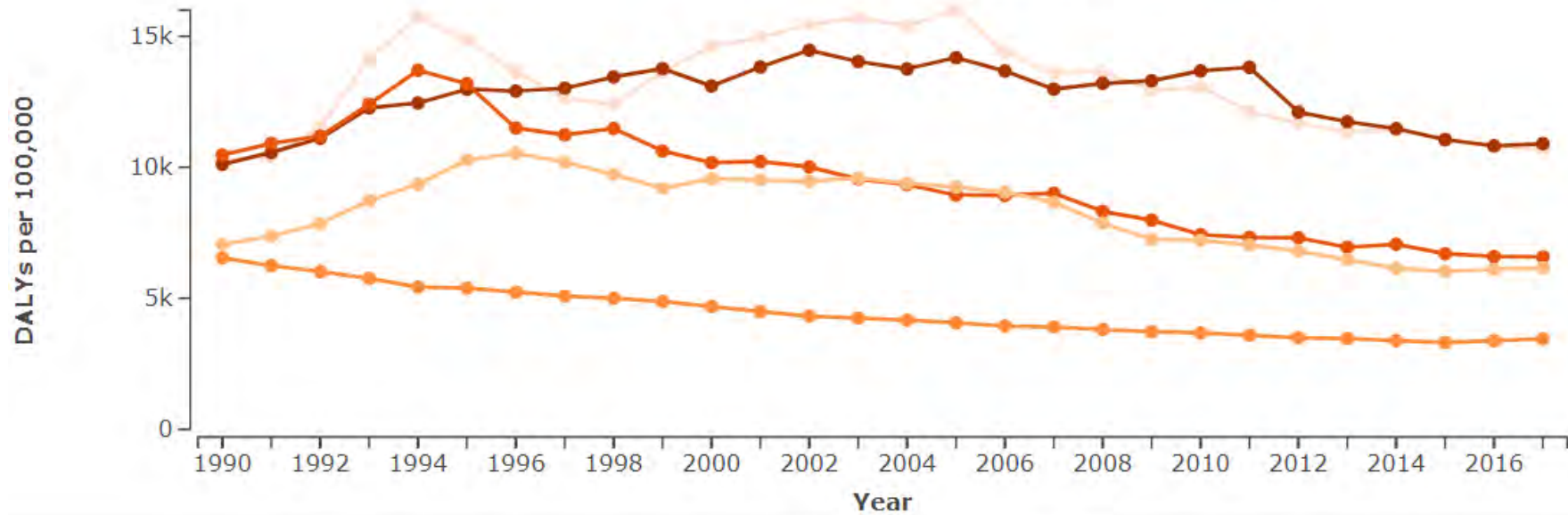


Russian Federation  
All causes attributable to Smoking  
Females, All ages



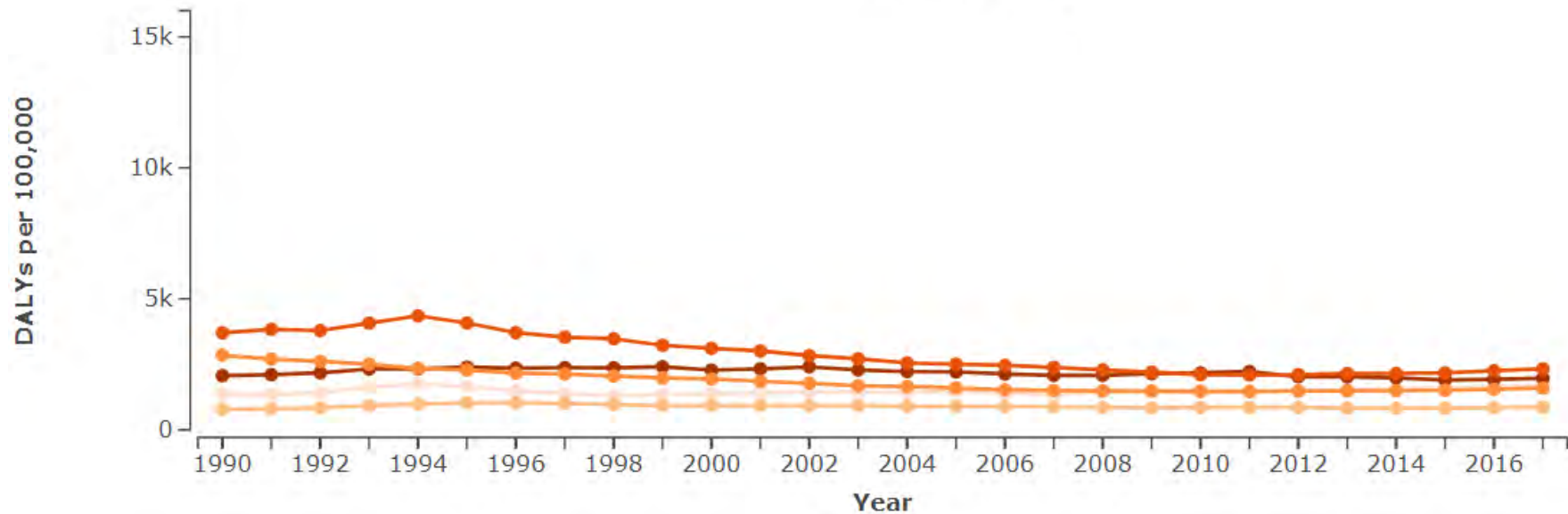


Smoking  
Males, All ages

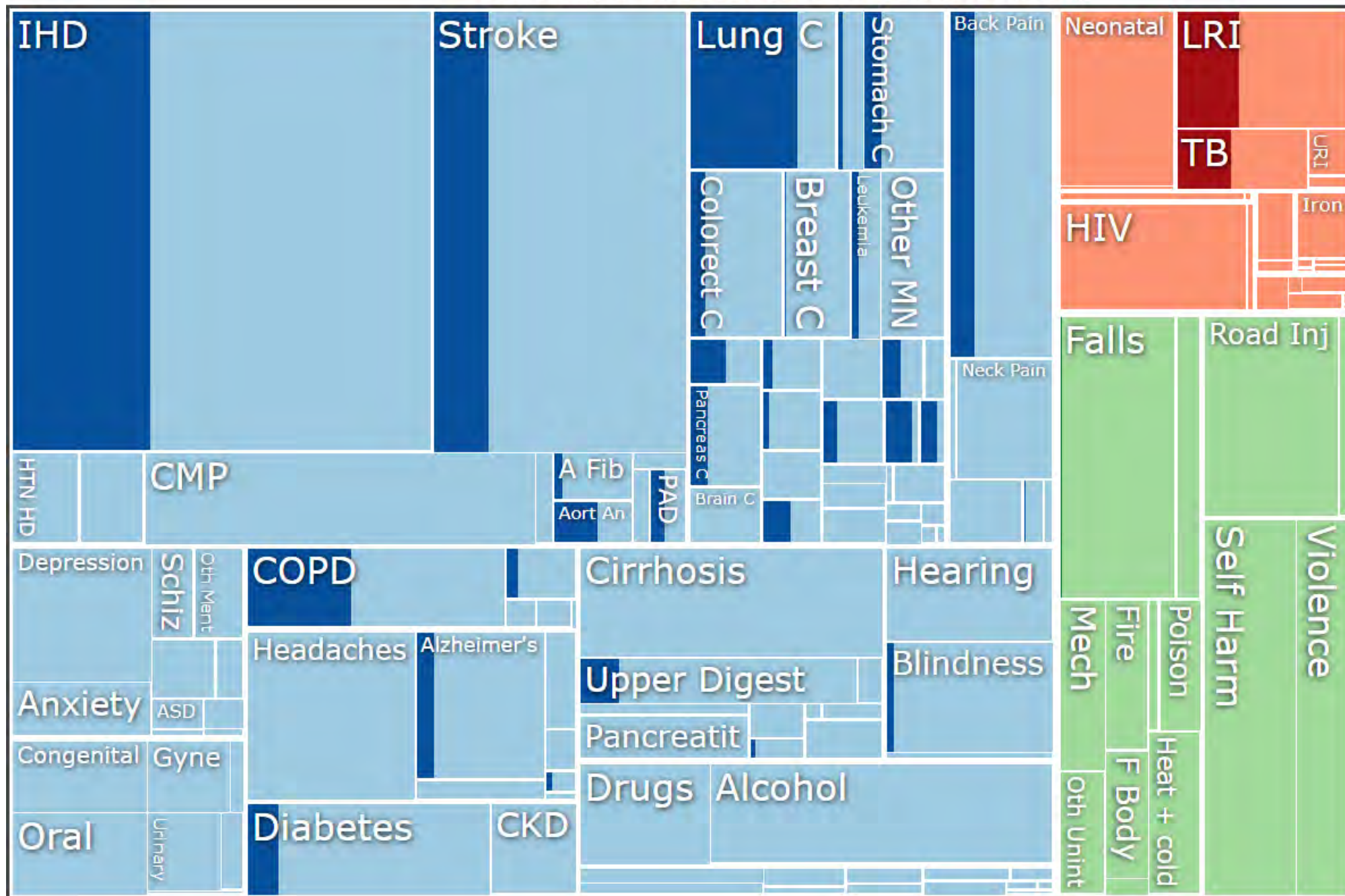


- Russian Federation
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- Estonia
- Finland
- Kazakhstan

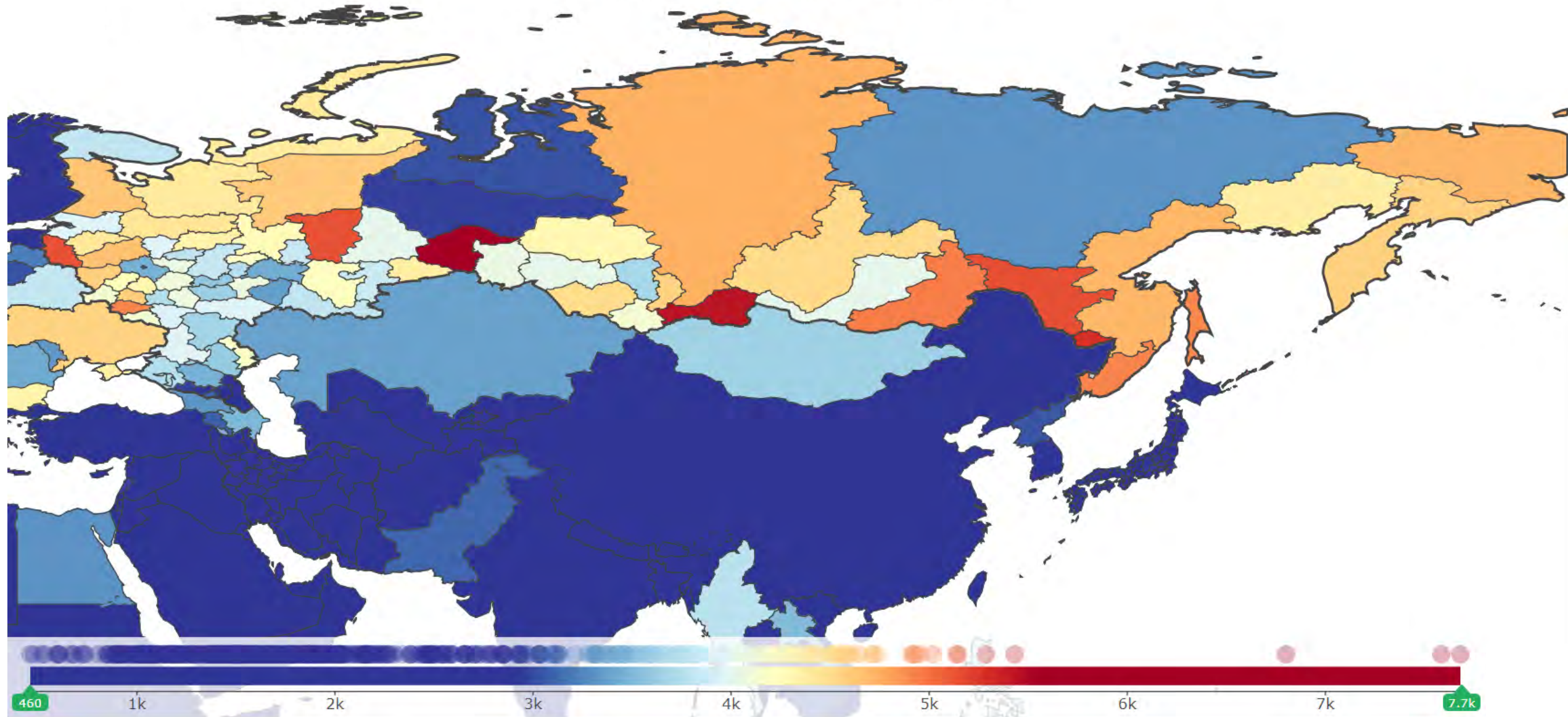
Smoking  
Females, All ages



Russian Federation  
Both sexes, All ages, 2017, DALYs attributable to Smoking



All causes attributable to Smoking  
Both sexes, Age-standardized, 2017, DALYs per 100,000





Comments or Questions?