Supplementary Online Content


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This supplementary material has been provided by the authors to give readers additional information about their work.
eMethods 1. Global Burden of Disease Overview

a. GATHER statement
This study is in compliance with the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER) recommendations. The GBD 2016 capstone papers and their respective supplementary documents contain the general methods, data sources, model selection information, performance and limitation information for the GBD 2016 analyses including detailed GATHER documentation. Appendix Table 1 contains GATHER compliance information for this publication.

b. GBD Cause List
The GBD Cause List is organized into six levels, consisting of a hierarchy that is mutually exclusive and collectively exhaustive. Details on the overall GBD Cause list have been documented elsewhere. Appendix Table 2 contains the cause and sequelae list for Cardiovascular Diseases.

c. Socio-Demographic Index (SDI)
The Socio-demographic Index (SDI) is a composite indicator of development status constructed for GBD 2015 whose components are strongly correlated with health outcomes. SDI was calculated using the Human Development Index (HDI) methodology, wherein an index value was determined for each of the covariate inputs (log LDI, mean educational attainment over age 15, and TFR). Detailed methodology and analysis information for SDI have been described elsewhere.

d. Data Sources
A complete list of sources used in the GBD 2016 analyses is available from the GBD 2016 Data Input Sources Tool (http://ghdx.healthdata.org/gbd-2016/data-input-sources).
**eMethods 2. Outcomes estimations**

**Hospital and Claims Data**

Hospital data plays a key role in nonfatal estimation for many CVD causes. GBD 2016 used both inpatient and outpatient administrative claims data. Detailed methods for claims data analysis from the United States were described previously. Briefly, aggregate data was derived from claims information in the Truvan Marketscan database of US private and public health insurance and were incorporated for the years of 2000, 2010, and 2012. Populations covered in each year were 3.3 million, 40.4 million and 40.8 million respectively. All ICD-9 four- or five-digit-coded diagnoses were mapped to GBD Causes. GBD conditions were categorized as “long-term” or “short-term” depending on cause duration. In a given year, for each individual in the claims data, a long-term case was defined as any mention in any diagnostic field associated with any claim, including inpatient and outpatient encounters. A short-term case was defined the same way, but assumed that claims within a condition-specific duration were the same case. A correction factor was applied to account for bias in health service encounter data over time, with the assumption that data from 2012 was most representative of the entire population.
eMethods 3. Fatal cause-specific estimation process

Fatal estimates for cardiovascular diseases were generated using CODEm. The CODEm methods approach has been described elsewhere. A list of covariates used in CODEm modeling for each CVD cause can be found in Appendix Table 3a.

ICD8, 9, and 10 codes were mapped to GBD causes. Nonspecific or intermediate causes of death inappropriately assigned as underlying causes of death were redistributed to appropriate underlying causes using an algorithm developed for the GBD study. After identifying nonspecific or intermediate codes (for example generalized atherosclerosis or left-sided heart failure), a regression model was used to realign these codes to biologically plausible targets. All-cause, all-cardiovascular, and cause-specific mortality was estimated using the Cause of Death Ensemble Model (CODEm) which produces cause-specific smoothed trends over time by age, sex, and state. Atrial fibrillation mortality was estimated with a separate natural history model described below. The CODCorrect algorithm was applied to ensure that cause-specific, cardiovascular, and all-cause deaths were consistent. Years of life lost (YLLs) were computed by multiplying the number of deaths from each cause in each age group by a global reference life expectancy at the average of age of death among those who died in the age group.
Nonfatal estimates for cardiovascular diseases were modeled using the DisMod-MR 2.1 platform. Morbidity modeling methods have been documented elsewhere². A list of covariates used in DisMod modeling for each CVD cause can be found in Appendix Table 3b. Appendix Table 4 includes a list of International Classification of Diseases (ICD) codes used in the extraction of hospital and claims data, mapped to specific cardiovascular diseases.
**eMethods 5. Risk factor cause-specific estimation process**

A set of behavioral, environmental and occupational, and metabolic risks that contribute to health outcomes were evaluated in GBD 2016. The Comparative Risk Assessment framework included 84 behavioral, environmental and occupational, and metabolic risks or risk clusters. Risk-outcome pairs were defined using the World Cancer Research Fund-defined criteria for convincing or probable evidence. Relative risk estimates were derived from published and unpublished data, including randomized trials and pooling of longitudinal cohort studies. Both Bayesian meta-regression and Gaussian spatiotemporal process regression models were used to produce consistent estimates of risk exposure.

Risks were organized in four hierarchical levels, each level being evaluated to determine whether risk combinations were additive, multiplicative, or shared common pathways for intervention. Through this method, we are able to quantify the proportion of risk attributable burden shared by risks or combination of risks. Additionally, this methodology allows for the measurement of potential overlaps between behavioral, environmental and occupational, and metabolic risks. The full risk factor estimation and evaluation methodology has been described elsewhere. 

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eReferences.


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Appendix Table 1. GATHER checklist of information that should be included in reports of global health estimates, with description of compliance and location of information for “The burden of cardiovascular diseases among US states, 1990–2016”.

<table>
<thead>
<tr>
<th>#</th>
<th>GATHER checklist item</th>
<th>Description of compliance</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Objectives and funding</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Define the indicators, populations, and time periods for which estimates were made.</td>
<td>Narrative provided in paper and appendix describing indicators, definitions, and populations.</td>
<td>Manuscript; Methods Appendix, Section 1. GBD Overview</td>
</tr>
<tr>
<td>2</td>
<td>List the funding sources for the work.</td>
<td>Funding sources listed at end of paper.</td>
<td>Funding Sources</td>
</tr>
<tr>
<td></td>
<td><strong>Data Inputs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>For all data inputs from multiple sources that are synthesized as part of the study:</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 5 | Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant. | Interactive, online data source tool that provides metadata for data sources by component, geography, cause, risk, or impairment has been developed. | Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. The Lancet. 2017: 390; 1211–59.  
Online data tools: http://ghdx.healthdata.org/gbd-2016/data-input-sources |
|---|---|---|---|
| 6 | Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5). | Summary of known biases by cause included in methodological approaches sections of previously published appendices. | 1) GBD 2016 Causes of Death Collaborators. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980–2016: a systematic analysis for the Global Burden of Disease Study 2016. The Lancet. 2017: 390; 1151–210.  
<table>
<thead>
<tr>
<th>7</th>
<th>Describe and give sources for any other data inputs.</th>
<th>Included in list of all data sources provided on online data source tool.</th>
<th>Online data tools: <a href="http://ghdx.healthdata.org/gbd-2016/data-input-sources">http://ghdx.healthdata.org/gbd-2016/data-input-sources</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet as opposed to a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared due to ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data.</td>
<td>Downloads of input data will be available through online tools, including data visualization tools and data query tools. Input data not available in tools will be made available upon request.</td>
<td>Online data tools <a href="http://www.healthdata.org/results/data-visualizations">http://www.healthdata.org/results/data-visualizations</a>; <a href="http://ghdx.healthdata.org/">http://ghdx.healthdata.org/</a>; <a href="http://ghdx.healthdata.org/gbd-data-tool">http://ghdx.healthdata.org/gbd-data-tool</a></td>
</tr>
</tbody>
</table>

**Data analysis**

| 10 | Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data | Detailed descriptions of all steps of the analysis were included in the methodological approaches sections of previously published | 1) GBD 2016 Causes of Death Collaborators. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980–2016: a systematic analysis for the Global Burden of Disease Study 2016. The Lancet. 2017: 390;1151–210. |


3) GBD 2016 Risk Factors Collaborators. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and |
| | | | |
|---|---|---|
| **14** | State how analytic or statistical source code used to generate estimates can be accessed. | Access statement provided. | http://ghdx.healthdata.org/global-burden-disease-study-2016 |
| **15** | Provide published estimates in a file format from which data can be efficiently extracted. | GBD 2016 results are available through online data visualization tools, the Global Health Data Exchange, and the online data query tool (these tools are already available for GBD 2013 results). | Online data tools http://www.healthdata.org/results/data-visualizations; http://ghdx.healthdata.org/; http://ghdx.healthdata.org/gbd-data-tool |
| **16** | Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals). | Uncertainty intervals are provided with all results. | Main text; Online data tools http://www.healthdata.org/results/data-visualizations; http://ghdx.healthdata.org/; http://ghdx.healthdata.org/gbd-data-tool |

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### Appendix Table 2. GBD 2016 Cause and Sequela Hierarchy for Cardiovascular Diseases

<table>
<thead>
<tr>
<th>Causes and sequelae</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular diseases</td>
<td>2</td>
</tr>
<tr>
<td>Rheumatic heart disease</td>
<td>3</td>
</tr>
<tr>
<td>Asymptomatic and mild heart failure due to rheumatic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Moderate heart failure due to rheumatic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Rheumatic heart disease, without heart failure</td>
<td>5</td>
</tr>
<tr>
<td>Severe heart failure due to rheumatic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Ischemic heart disease</td>
<td>3</td>
</tr>
<tr>
<td>Acute myocardial infarction 3 to 28 days</td>
<td>5</td>
</tr>
<tr>
<td>Acute myocardial infarction first 2 days</td>
<td>5</td>
</tr>
<tr>
<td>Asymptomatic and mild heart failure due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Asymptomatic angina due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Asymptomatic ischemic heart disease following myocardial infarction</td>
<td>5</td>
</tr>
<tr>
<td>Mild angina due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Moderate angina due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Moderate heart failure due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Severe angina due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Severe heart failure due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Cerebrovascular disease</td>
<td>3</td>
</tr>
<tr>
<td>Ischemic stroke</td>
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<tr>
<td>Acute ischemic stroke severity level 1</td>
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<tr>
<td>Acute ischemic stroke severity level 2</td>
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</tr>
<tr>
<td>Acute ischemic stroke severity level 5</td>
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<tr>
<td>Asymptomatic chronic ischemic stroke</td>
<td>5</td>
</tr>
<tr>
<td>Chronic ischemic stroke severity level 1</td>
<td>5</td>
</tr>
<tr>
<td>Chronic ischemic stroke severity level 2</td>
<td>5</td>
</tr>
<tr>
<td>Chronic ischemic stroke severity level 3</td>
<td>5</td>
</tr>
<tr>
<td>Condition</td>
<td>Severity Level</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Chronic ischemic stroke</td>
<td>4</td>
</tr>
<tr>
<td>Chronic ischemic stroke level 5</td>
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</tr>
<tr>
<td>Hemorrhagic stroke</td>
<td>4</td>
</tr>
<tr>
<td>Acute hemorrhagic stroke</td>
<td>5</td>
</tr>
<tr>
<td>Acute hemorrhagic stroke level 1</td>
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</tr>
<tr>
<td>Acute hemorrhagic stroke level 2</td>
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<td>Acute hemorrhagic stroke level 3</td>
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<tr>
<td>Acute hemorrhagic stroke level 5</td>
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<tr>
<td>Asymptomatic chronic hemorrhagic stroke</td>
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</tr>
<tr>
<td>Chronic hemorrhagic stroke</td>
<td>5</td>
</tr>
<tr>
<td>Chronic hemorrhagic stroke level 1</td>
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<tr>
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<tr>
<td>Chronic hemorrhagic stroke level 5</td>
<td>5</td>
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<tr>
<td>Hypertensive heart disease</td>
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<tr>
<td>Asymptomatic and mild heart failure due to hypertensive heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Moderate heart failure due to hypertensive heart disease</td>
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</tr>
<tr>
<td>Severe heart failure due to hypertensive heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Cardiomyopathy and myocarditis</td>
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</tr>
<tr>
<td>Myocarditis</td>
<td>4</td>
</tr>
<tr>
<td>Acute myocarditis</td>
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</tr>
<tr>
<td>Asymptomatic and mild heart failure due to myocarditis</td>
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<tr>
<td>Moderate heart failure due to myocarditis</td>
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<tr>
<td>Severe heart failure due to myocarditis</td>
<td>5</td>
</tr>
<tr>
<td>Alcoholic cardiomyopathy</td>
<td>4</td>
</tr>
<tr>
<td>Asymptomatic and mild heart failure due to alcoholic cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Moderate heart failure due to alcoholic cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Severe heart failure due to alcoholic cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Other cardiomyopathy</td>
<td>4</td>
</tr>
<tr>
<td>Asymptomatic and mild heart failure due to other cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Condition</td>
<td>Score</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Moderate heart failure due to other cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Severe heart failure due to other cardiomyopathy</td>
<td>5</td>
</tr>
<tr>
<td>Atrial fibrillation and flutter</td>
<td>3</td>
</tr>
<tr>
<td>Asymptomatic atrial fibrillation and flutter</td>
<td>5</td>
</tr>
<tr>
<td>Symptomatic atrial fibrillation and flutter</td>
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</tr>
<tr>
<td>Aortic aneurysm</td>
<td>3</td>
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<td>Peripheral artery disease</td>
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<td>Asymptomatic peripheral vascular disease</td>
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<tr>
<td>Symptomatic claudication due to peripheral vascular disease</td>
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<tr>
<td>Endocarditis</td>
<td>3</td>
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<tr>
<td>Asymptomatic and mild heart failure due to endocarditis</td>
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</tr>
<tr>
<td>Moderate endocarditis</td>
<td>5</td>
</tr>
<tr>
<td>Moderate heart failure due to endocarditis</td>
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<tr>
<td>Severe endocarditis</td>
<td>5</td>
</tr>
<tr>
<td>Severe heart failure due to endocarditis</td>
<td>5</td>
</tr>
<tr>
<td>Other cardiovascular and circulatory diseases</td>
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<td>Asymptomatic and mild heart failure due to other cardiovascular diseases</td>
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</tr>
<tr>
<td>Asymptomatic other cardiovascular diseases</td>
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</tr>
<tr>
<td>Mild other cardiovascular diseases</td>
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<tr>
<td>Moderate heart failure due to other cardiovascular diseases</td>
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<tr>
<td>Moderate other cardiovascular diseases</td>
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<tr>
<td>Severe heart failure due to other cardiovascular diseases</td>
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</tr>
<tr>
<td>Severe other cardiovascular diseases</td>
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## Appendix Table 3a. GBD 2016 CODem model covariates by CVD Cause

<table>
<thead>
<tr>
<th>Cause Name</th>
<th>Covariate</th>
<th>Transformation</th>
<th>Level</th>
<th>Direction</th>
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<td>1</td>
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<td>Cardiovascular diseases</td>
<td>Cholesterol (total, mean per capita)</td>
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<td>1</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Smoking prevalence</td>
<td>None</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cardiovascular diseases</td>
<td>Systolic blood pressure (mmHg)</td>
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<td>1</td>
<td>1</td>
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<td>Cardiovascular diseases</td>
<td>Trans fatty acid</td>
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</tr>
<tr>
<td>Cardiovascular diseases</td>
<td>Mean BMI</td>
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<td>1</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Elevation over 1500m (proportion)</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Fasting plasma glucose (mmol/L)</td>
<td>None</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Outdoor pollution (PM$_{2.5}$)</td>
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<td>2</td>
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<td>Cardiovascular diseases</td>
<td>Indoor air pollution (all fuel types)</td>
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<td>Cardiovascular diseases</td>
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<td>-1</td>
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<td>Cardiovascular diseases</td>
<td>Lag distributed income per capita (IS)</td>
<td>Log</td>
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<td>Omega-3 (kcal/capita, adjusted)</td>
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<td>Fruits (kcal/capita, adjusted)</td>
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<td>-1</td>
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<tr>
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<td>Vegetables (kcal/capita, adjusted)</td>
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<td>Nuts and seeds (kcal/capita, adjusted)</td>
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<td>Cardiovascular diseases</td>
<td>PUFA adjusted (percent)</td>
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<td>3</td>
<td>-1</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Alcohol (litres per capita)</td>
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<td>3</td>
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<tr>
<td>Rheumatic heart disease</td>
<td>SEV</td>
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<td>1</td>
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</tr>
<tr>
<td>Rheumatic heart disease</td>
<td>Improved water (proportion)</td>
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<td>1</td>
<td>-1</td>
</tr>
<tr>
<td>Rheumatic heart disease</td>
<td>Malnutrition</td>
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<td>1</td>
</tr>
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<td>Rheumatic heart disease</td>
<td>Sanitation (proportion with access)</td>
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<td>-1</td>
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<td>Healthcare access and quality index</td>
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<td>SDI</td>
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<td>3</td>
<td>-1</td>
</tr>
<tr>
<td>Rheumatic heart disease</td>
<td>Education (years per capita)</td>
<td>None</td>
<td>3</td>
<td>-1</td>
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<tr>
<td>Ischemic heart disease</td>
<td>Summary exposure variable</td>
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<tr>
<td>Ischemic heart disease</td>
<td>Cholesterol (total, mean per capita)</td>
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<td>1</td>
<td>1</td>
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<td>Rheumatic heart disease</td>
<td>101-101.9, 102.0, 105-109.9</td>
<td>391-391.9, 392.0, 393-398.99</td>
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<td>Ischemic heart disease</td>
<td>I20-I21.6, I21.9-I25.9, Z82.4-Z82.48</td>
<td>410-414.9, V17.3</td>
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<td>Cerebrovascular disease</td>
<td>G45-G46.8, I60-164, I64.1, I65-169.98, Z82.3</td>
<td>430-439.6, V12.54, V17.1</td>
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<td>Ischemic stroke</td>
<td>G45-G46.8, I63-163.9, I65-166.9, I67.2-167.848, 169.3-169.4</td>
<td>433-435.9, 437.0-437.2, 437.4-437.9</td>
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<td>Hemorrhagic stroke</td>
<td>I60-I62.9, I67.0-167.1, I69.0-169.298</td>
<td>430-432.9, 437.3</td>
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<td>Hypertensive heart disease</td>
<td>I11-I11.2, I11.9</td>
<td>402-402.91</td>
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<td>Cardiomyopathy and myocarditis</td>
<td>B33.2-B33.20, B33.22-B33.24, D86.85, I40-141.8, I42-I43.8, I51.4-I51.6</td>
<td>074.2, 074.23, 422-422.99, 425-425.5, 425.7-425.9, 429.0-429.1</td>
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<td>Myocarditis</td>
<td>B33.2-B33.20, B33.22-B33.24, D86.85, I40-141.8, I51.4-I51.6</td>
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<td>Alcoholic cardiomyopathy</td>
<td>I42.6</td>
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<td>Other cardiomyopathy</td>
<td>I42.0-I42.5, I42.7-143.8</td>
<td>425.0-425.4, 425.7-425.9</td>
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<td>I48-I48.92</td>
<td>427.3-427.32</td>
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<td>Peripheral artery disease</td>
<td>I70.2-I70.92, I73-173.9</td>
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<td>I33.21, I33.133.9, I38-138.0, I39-139.9</td>
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<td>Other cardiovascular and circulatory diseases</td>
<td>130-132.8, 134-137.9, I51-151.3, I51.7-152.8, I72-172.9, I77-I83.93, I86-189.0, I89.9, I95.0-195.1, I98, I98.8-199.9, K75.1</td>
<td>074.21, 417-417.9, 420-420.99, 423-423.9, 424.0-424.3, 429, 429.2-429.9, 442-442.9, 447-454.9, 456, 456.3-457, 457.1, 457.8-458.1, 459-459.9</td>
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<td>Tunstall-Pedoe H, Kuulasmaa K, M.A.ha¨n¨en M, Tolonen H, Ruokokoski E. Contribution of trends in survival and coronary-event rates to changes in coronary heart disease mortality: 10-year results from 37 WHO MONICA Project populations. Lancet, 1999; 353(9146): 1547-57</td>
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Rheumatic heart disease

National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), United States Census Bureau. United States National Health Interview Survey 1997. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)

Rheumatic heart disease


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### eTable 1. Disability-adjusted life-years (DALYs) and percentage change of DALYs for all cardiovascular causes by US state, total number and age-standardized rate for 1990, 2006, and 2016 for both sexes

<table>
<thead>
<tr>
<th>State</th>
<th>Number of DALYS (95% UI)</th>
<th>Percentage change in DALYs (95% UI)</th>
<th>Age-standardized DALY rates per 100,000 persons (95% UI)</th>
<th>Percentage change in DALY rates (95% UI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcoholic cardiomyopathy</td>
<td></td>
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<tr>
<td>Alabama</td>
<td>1,567 (1,098 to 1,985)</td>
<td>2,054 (1,717 to 3,050)</td>
<td>2,418 (1,917 to 3,636)</td>
<td>.56 (.17 to 1.48)</td>
</tr>
<tr>
<td>Alaska</td>
<td>193 (122 to 230)</td>
<td>281 (206 to 374)</td>
<td>370 (266 to 488)</td>
<td>.95 (.49 to 1.71)</td>
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<tr>
<td>Arizona</td>
<td>1,113 (893 to 1,420)</td>
<td>2,234 (1,835 to 3,287)</td>
<td>2,641 (2,118 to 4,230)</td>
<td>1.39 (.85 to 2.81)</td>
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<td>Arkansas</td>
<td>844 (702 to 1,128)</td>
<td>1,121 (925 to 1,747)</td>
<td>1,300 (1,009 to 2,241)</td>
<td>.54 (.18 to 1.3)</td>
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<td>California</td>
<td>13,915 (6,351 to 18,037)</td>
<td>15,691 (9,658 to 18,450)</td>
<td>18,886 (11,218 to 23,783)</td>
<td>.42 (.04 to 1.52)</td>
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<td>Colorado</td>
<td>944 (738 to 1,225)</td>
<td>1,483 (1,200 to 2,399)</td>
<td>1,933 (1,502 to 3,420)</td>
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<tr>
<td>Connecticut</td>
<td>1,233 (861 to 1,464)</td>
<td>1,390 (1,052 to 1,738)</td>
<td>1,430 (1,124 to 2,072)</td>
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<td>Delaware</td>
<td>330 (185 to 401)</td>
<td>433 (295 to 510)</td>
<td>496 (366 to 598)</td>
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<tr>
<td>District of Columbia</td>
<td>612 (201 to 883)</td>
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<tr>
<td>State</td>
<td>Florida</td>
<td>Georgia</td>
<td>Hawaii</td>
<td>Idaho</td>
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<tr>
<td></td>
<td>6,955</td>
<td>2,331</td>
<td>615</td>
<td>279</td>
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<tr>
<td></td>
<td>(3,459 to 8,650)</td>
<td>(1,408 to 2,961)</td>
<td>(260 to 796)</td>
<td>(222 to 374)</td>
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<tr>
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<td>9,864</td>
<td>4,833</td>
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<td>(6,314 to 11,596)</td>
<td>(3,203 to 5,806)</td>
<td>(393 to 937)</td>
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<td>12,041</td>
<td>6,067</td>
<td>885</td>
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<tr>
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<td>(7,937 to 14,778)</td>
<td>(4,095 to 7,591)</td>
<td>(475 to 1,117)</td>
<td>(417 to 953)</td>
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<td>.78</td>
<td>1.67</td>
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<td>.98</td>
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<td>(.37 to 1.72)</td>
<td>(.7 to 3.15)</td>
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<tr>
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<td>.23</td>
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<td>(.03 to .45)</td>
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<td>37</td>
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<td>-.08</td>
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<td>(-.27 to .49)</td>
<td>(-.14 to 1.04)</td>
<td>(-.29 to .26)</td>
<td>(-.27 to .38)</td>
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<td>.03</td>
<td>.07</td>
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<tr>
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<td>(-.18 to .16)</td>
<td>(-.23 to .2)</td>
<td>(.08 to .19)</td>
<td>(.11 to .26)</td>
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<tr>
<td>State</td>
<td>Year 1 Mean (Min to Max)</td>
<td>Year 2 Mean (Min to Max)</td>
<td>% Change (Lower to Upper)</td>
<td>Confidence Interval</td>
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<td>Michigan</td>
<td>3,556 (2,223 to 4,345)</td>
<td>5,287 (3,571 to 6,206)</td>
<td>.6 (.23 to 1.37)</td>
<td>.06 (-.13 to .31)</td>
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<tr>
<td>Minnesota</td>
<td>1,184 (957 to 1,563)</td>
<td>1,684 (1,191 to 2,794)</td>
<td>.81 (.34 to 1.74)</td>
<td>.27 (.08 to .5)</td>
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<td>Missouri</td>
<td>1,124 (694 to 1,366)</td>
<td>1,502 (1,245 to 2,056)</td>
<td>.55 (.14 to 1.45)</td>
<td>.13 (-.07 to .36)</td>
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<tr>
<td>Montana</td>
<td>258 (201 to 319)</td>
<td>313 (251 to 511)</td>
<td>.16 (-.17 to 1.03)</td>
<td>0 (-.19 to .26)</td>
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<td>Nevada</td>
<td>518 (333 to 666)</td>
<td>1,175 (910 to 1,436)</td>
<td>2.5 (1.41 to 4.21)</td>
<td>.52 (.19 to .86)</td>
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<td>New Hampshire</td>
<td>379 (291 to 475)</td>
<td>463 (383 to 701)</td>
<td>.51 (.16 to 1.25)</td>
<td>.23 (.05 to .43)</td>
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<tr>
<td>New Jersey</td>
<td>4,058 (2,216 to 4,979)</td>
<td>4,786 (2,840 to 5,654)</td>
<td>.13 (-.14 to 1.03)</td>
<td>-.06 (-.24 to .17)</td>
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<tr>
<td>New Mexico</td>
<td>526 (370 to 628)</td>
<td>792 (652 to 1,161)</td>
<td>.69 (.24 to 1.75)</td>
<td>.11 (-.1 to .37)</td>
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<td>New York</td>
<td>6,511 (4,907 to 8,600)</td>
<td>6,689 (5,408 to 10,422)</td>
<td>1 (-.22 to 1.06)</td>
<td>.05 (-.14 to .28)</td>
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<td>North Carolina</td>
<td>3,256 (1,636 to 4,031)</td>
<td>4,743 (2,925 to 5,572)</td>
<td>.87 (.44 to 2.22)</td>
<td>.25 (.05 to .58)</td>
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<tr>
<td>North Dakota</td>
<td>195 (154 to 266)</td>
<td>190 (152 to 328)</td>
<td>.24 (-.08 to .83)</td>
<td>.27 (.03 to .53)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>State</th>
<th>HW (Min to Max)</th>
<th>HW (Min to Max)</th>
<th>HW (Min to Max)</th>
<th>HW (Min to Max)</th>
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<th>HW (Min to Max)</th>
<th>HW (Min to Max)</th>
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<tbody>
<tr>
<td>Ohio</td>
<td>2,958 (2,181 to 4,457)</td>
<td>4,361 (3,682 to 6,044)</td>
<td>5,781 (4,579 to 7,565)</td>
<td>.99 (.38 to 1.68)</td>
<td>.33 (.11 to .58)</td>
<td>.25 (18 to 37)</td>
<td>.31 (26 to 43)</td>
<td>.37 (29 to 48)</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>1,033 (843 to 1,359)</td>
<td>1,273 (1,018 to 2,149)</td>
<td>1,707 (1,304 to 2,996)</td>
<td>.65 (.25 to 1.69)</td>
<td>.34 (.13 to .6)</td>
<td>.30 (24 to 40)</td>
<td>.29 (24 to 50)</td>
<td>.35 (26 to 61)</td>
</tr>
<tr>
<td>Oregon</td>
<td>1,028 (785 to 1,229)</td>
<td>1,483 (1,128 to 2,195)</td>
<td>2,043 (1,555 to 3,184)</td>
<td>1 (.48 to 2.02)</td>
<td>.38 (.15 to .62)</td>
<td>.32 (25 to 38)</td>
<td>.32 (24 to 47)</td>
<td>.35 (24 to 55)</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>3,840 (2,567 to 5,435)</td>
<td>4,185 (3,416 to 6,266)</td>
<td>5,218 (4,204 to 7,441)</td>
<td>.38 (.07 to .99)</td>
<td>.25 (.06 to .52)</td>
<td>.27 (19 to 38)</td>
<td>.26 (21 to 39)</td>
<td>.28 (23 to 42)</td>
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<tr>
<td>Rhode Island</td>
<td>350 (278 to 468)</td>
<td>340 (271 to 566)</td>
<td>375 (282 to 650)</td>
<td>.07 (-.22 to .66)</td>
<td>.1 (-.08 to .32)</td>
<td>.30 (24 to 41)</td>
<td>.25 (20 to 42)</td>
<td>.26 (19 to 44)</td>
</tr>
<tr>
<td>South Carolina</td>
<td>1,472 (871 to 1,793)</td>
<td>2,237 (1,665 to 2,654)</td>
<td>2,620 (2,075 to 3,304)</td>
<td>.82 (.38 to 1.83)</td>
<td>.18 (-.04 to .42)</td>
<td>.41 (24 to 49)</td>
<td>.41 (31 to 49)</td>
<td>.39 (31 to 50)</td>
</tr>
<tr>
<td>South Dakota</td>
<td>193 (157 to 287)</td>
<td>211 (161 to 393)</td>
<td>267 (193 to 517)</td>
<td>.37 (.02 to 1.06)</td>
<td>.26 (.05 to .51)</td>
<td>.25 (21 to 38)</td>
<td>.22 (17 to 41)</td>
<td>.24 (17 to 46)</td>
</tr>
<tr>
<td>Tennessee</td>
<td>2,157 (1,370 to 2,558)</td>
<td>3,290 (2,575 to 4,269)</td>
<td>4,787 (3,326 to 6,388)</td>
<td>.127 (.72 to 2.76)</td>
<td>.46 (.19 to .71)</td>
<td>.40 (26 to 48)</td>
<td>.44 (34 to 56)</td>
<td>.54 (38 to 71)</td>
</tr>
<tr>
<td>Texas</td>
<td>4,453 (3,305 to 5,968)</td>
<td>6,377 (5,237 to 10,016)</td>
<td>7,350 (5,498 to 13,956)</td>
<td>.66 (.19 to 1.97)</td>
<td>.14 (-.09 to .45)</td>
<td>.27 (20 to 36)</td>
<td>.26 (21 to 40)</td>
<td>.22 (17 to 42)</td>
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<td>Utah</td>
<td>356 (285 to 466)</td>
<td>502 (397 to 845)</td>
<td>703 (546 to 1,232)</td>
<td>.97 (.5 to 1.9)</td>
<td>.9 (.2 to .4)</td>
<td>.25 (20 to 33)</td>
<td>.21 (17 to 36)</td>
<td>.23 (18 to 40)</td>
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<tr>
<td>Vermont</td>
<td>205 (141 to 245)</td>
<td>222 (178 to 318)</td>
<td>260 (206 to 388)</td>
<td>.29 (-.02 to .97)</td>
<td>.17 (-.01 to .38)</td>
<td>.35 (24 to 42)</td>
<td>.27 (22 to 38)</td>
<td>.28 (22 to 41)</td>
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<tr>
<td>Virginia</td>
<td>2,334 (1,506 to 2,813)</td>
<td>3,188 (2,496 to 3,868)</td>
<td>4,307 (2,914 to 5,450)</td>
<td>.88 (.36 to 1.89)</td>
<td>.35 (.1 to .62)</td>
<td>.37 (23 to 44)</td>
<td>.34 (27 to 42)</td>
<td>.38 (26 to 48)</td>
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<tr>
<td>Washington</td>
<td>1,882 (1,227 to 2,248)</td>
<td>2,757 (1,911 to 3,564)</td>
<td>3,559 (2,369 to 4,614)</td>
<td>.91 (.48 to 1.76)</td>
<td>.29 (.11 to .51)</td>
<td>.38 (24 to 45)</td>
<td>.36 (25 to 47)</td>
<td>.37 (25 to 48)</td>
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<td>West Virginia</td>
<td>827 (569 to 979)</td>
<td>996 (803 to 1,315)</td>
<td>1,106 (895 to 1,532)</td>
<td>.36 (.04 to .109)</td>
<td>.11 (-.07 to .3)</td>
<td>39 (27 to 46)</td>
<td>40 (33 to 53)</td>
<td>42 (34 to 60)</td>
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<tr>
<td>Wisconsin</td>
<td>1,713 (1,191 to 2,019)</td>
<td>2,679 (1,658 to 3,346)</td>
<td>2,990 (1,936 to 4,194)</td>
<td>.76 (.32 to 1.74)</td>
<td>.12 (-.06 to .34)</td>
<td>33 (23 to 38)</td>
<td>39 (24 to 49)</td>
<td>38 (25 to 52)</td>
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<tr>
<td>Wyoming</td>
<td>118 (97 to 169)</td>
<td>153 (115 to 272)</td>
<td>190 (135 to 356)</td>
<td>.59 (.18 to 1.37)</td>
<td>.24 (.03 to .49)</td>
<td>26 (22 to 38)</td>
<td>24 (18 to 42)</td>
<td>25 (18 to 47)</td>
</tr>
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<th>Aortic aneurysm</th>
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<td>California</td>
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<td>Colorado</td>
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<th>95% CI</th>
<th>2012 Estimate</th>
<th>95% CI</th>
<th>ΔYLD CI</th>
<th>YLD CI</th>
<th>ΔYLD CI</th>
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<th>ΔYLD CI</th>
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<tbody>
<tr>
<td>Florida</td>
<td>18,486 (17,030 to 19,982)</td>
<td>15,746 (14,608 to 16,905)</td>
<td>15,633 (13,889 to 17,588)</td>
<td>-.15 (-.26 to -.03)</td>
<td>-.01 (-.13 to .12)</td>
<td>94 (86 to 102)</td>
<td>60 (56 to 64)</td>
<td>48 (42 to 55)</td>
<td>-.49 (-.55 to -.41)</td>
<td>-.19 (-.3 to -.09)</td>
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<tr>
<td>Georgia</td>
<td>6,012 (5,532 to 6,565)</td>
<td>6,072 (5,588 to 6,647)</td>
<td>6,442 (5,588 to 7,450)</td>
<td>.07 (-.08 to .25)</td>
<td>.06 (-.08 to .23)</td>
<td>94 (87 to 103)</td>
<td>62 (58 to 68)</td>
<td>50 (44 to 58)</td>
<td>-.47 (-.54 to -.38)</td>
<td>-.19 (-.3 to -.07)</td>
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<tr>
<td>Hawaii</td>
<td>1,124 (1,038 to 1,216)</td>
<td>1,077 (1,002 to 1,156)</td>
<td>1,125 (1,017 to 1,248)</td>
<td>0 (-.11 to .14)</td>
<td>.05 (-.06 to .17)</td>
<td>95 (88 to 103)</td>
<td>62 (58 to 67)</td>
<td>54 (49 to 60)</td>
<td>-.43 (-.5 to -.36)</td>
<td>-.14 (-.23 to -.03)</td>
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<tr>
<td>Idaho</td>
<td>1,163 (1,069 to 1,263)</td>
<td>1,110 (1,015 to 1,200)</td>
<td>1,230 (1,079 to 1,408)</td>
<td>.06 (-.1 to .23)</td>
<td>.11 (-.05 to .29)</td>
<td>104 (95 to 113)</td>
<td>65 (59 to 70)</td>
<td>55 (48 to 63)</td>
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<td>-.16 (-.28 to -.02)</td>
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<td>12,406 (11,506 to 13,353)</td>
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<td>8,658 (7,804 to 9,647)</td>
<td>-.3 (-.38 to -.21)</td>
<td>-.05 (-.15 to .07)</td>
<td>94 (87 to 101)</td>
<td>60 (56 to 65)</td>
<td>50 (45 to 56)</td>
<td>-.47 (-.53 to -.4)</td>
<td>-.17 (-.26 to -.07)</td>
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<td>6,732 (6,237 to 7,288)</td>
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<td>5,547 (4,828 to 6,341)</td>
<td>-.17 (-.3 to -.05)</td>
<td>.01 (-.14 to .16)</td>
<td>104 (97 to 113)</td>
<td>71 (66 to 77)</td>
<td>62 (54 to 71)</td>
<td>-.41 (-.49 to -.31)</td>
<td>-.13 (-.26 to 0)</td>
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<td>Iowa</td>
<td>3,536 (3,266 to 3,811)</td>
<td>2,520 (2,330 to 2,716)</td>
<td>2,437 (2,173 to 2,706)</td>
<td>-.31 (-.4 to -.21)</td>
<td>-.03 (-.14 to .09)</td>
<td>93 (86 to 101)</td>
<td>61 (56 to 66)</td>
<td>53 (47 to 60)</td>
<td>-.43 (-.5 to -.35)</td>
<td>-.13 (-.23 to -.01)</td>
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<td>2,910 (2,676 to 3,152)</td>
<td>2,217 (2,044 to 2,389)</td>
<td>2,156 (1,871 to 2,445)</td>
<td>-.26 (-.37 to -.13)</td>
<td>-.03 (-.16 to .12)</td>
<td>94 (87 to 102)</td>
<td>64 (59 to 69)</td>
<td>55 (47 to 62)</td>
<td>-.42 (-.51 to -.32)</td>
<td>-.14 (-.27 to 0)</td>
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<td>Kentucky</td>
<td>4,515 (4,170 to 4,840)</td>
<td>3,731 (3,478 to 4,024)</td>
<td>3,804 (3,405 to 4,214)</td>
<td>-.16 (-.26 to -.05)</td>
<td>.02 (-.1 to .15)</td>
<td>105 (97 to 112)</td>
<td>71 (66 to 77)</td>
<td>62 (55 to 69)</td>
<td>-.41 (-.48 to -.33)</td>
<td>-.13 (-.23 to -.02)</td>
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<td>Louisiana</td>
<td>4,236 (3,895 to 4,610)</td>
<td>3,310 (3,051 to 3,608)</td>
<td>3,373 (3,043 to 3,818)</td>
<td>-.2 (-.29 to -.1)</td>
<td>.02 (-.09 to .14)</td>
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<td>116 (108 to 126)</td>
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<td>3,529 (3,151 to 3,976)</td>
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<td>59 to 64</td>
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<th>Deaths per 100,000 (95% CI)</th>
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<tbody>
<tr>
<td>Florida</td>
<td>28,301 (21,458 to 36,459)</td>
<td>1.11 (.89 to 1.35)</td>
</tr>
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<td></td>
<td>46,224 (35,712 to 57,999)</td>
<td>.29 (.23 to .35)</td>
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<td></td>
<td>59,546 (46,377 to 74,289)</td>
<td>133 (101 to 171)</td>
</tr>
<tr>
<td></td>
<td>152 (118 to 191)</td>
<td>.14 (.03 to .26)</td>
</tr>
<tr>
<td>Georgia</td>
<td>7,607 (5,731 to 9,849)</td>
<td>1.25 (1.03 to 1.49)</td>
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<td>12,616 (9,701 to 15,900)</td>
<td>.36 (.3 to .42)</td>
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<td>17,097 (13,286 to 21,375)</td>
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<td>133 (102 to 167)</td>
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<td>Hawaii</td>
<td>1,359 (1,021 to 1,778)</td>
<td>1.19 (.94 to 1.43)</td>
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<td>2,280 (1,755 to 2,886)</td>
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<td>2,960 (2,290 to 3,727)</td>
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<td>122 (93 to 154)</td>
<td>.05 (-.06 to .16)</td>
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<td>Idaho</td>
<td>1,400 (1,048 to 1,815)</td>
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<td>2,472 (1,909 to 3,113)</td>
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<td>3,504 (2,705 to 4,430)</td>
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<td>139 (107 to 176)</td>
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<td>Illinois</td>
<td>16,365 (12,276 to 21,279)</td>
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<td>20,799 (16,096 to 26,010)</td>
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<td>24,747 (19,286 to 31,268)</td>
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<td>128 (98 to 160)</td>
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<td>Indiana</td>
<td>8,284 (6,267 to 10,730)</td>
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<td>11,366 (8,818 to 14,259)</td>
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<td>13,807 (10,805 to 17,312)</td>
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<td>128 (97 to 162)</td>
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<td>Iowa</td>
<td>4,907 (3,715 to 6,332)</td>
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<td>5,920 (4,594 to 7,429)</td>
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<td>6,451 (5,023 to 8,101)</td>
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<td>128 (97 to 162)</td>
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<td>3,915 (2,956 to 5,045)</td>
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<td>4,910 (3,832 to 6,186)</td>
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<td>5,826 (4,509 to 7,308)</td>
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<td>127 (99 to 162)</td>
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<td>Kentucky</td>
<td>5,862 (4,431 to 7,501)</td>
<td>1.73 (.54 to .94)</td>
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<td>8,358 (6,496 to 10,462)</td>
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<td>10,131 (7,947 to 12,643)</td>
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<td>5,543 (4,190 to 7,222)</td>
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<td>7,182 (5,544 to 8,994)</td>
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<td>8,825 (6,822 to 11,058)</td>
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<td>135 (104 to 170)</td>
<td>.1 (-.02 to .22)</td>
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<td>Maine</td>
<td>2,126 (1,620 to 2,723)</td>
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<td>3,241 (2,512 to 4,078)</td>
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<td>3,921 (3,040 to 4,922)</td>
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<td>159 (125 to 202)</td>
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<td>Maryland</td>
<td>6,228 (4,691 to 8,027)</td>
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<td>9,704 (7,527 to 12,177)</td>
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<td>12,245 (9,469 to 15,305)</td>
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<td>140 (108 to 175)</td>
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<td>Massachusetts</td>
<td>10,670 (8,094 to 13,615)</td>
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<td>15,439 (11,927 to 19,375)</td>
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<td>17,263 (13,596 to 21,744)</td>
<td>137 (104 to 176)</td>
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<td>168 (130 to 213)</td>
<td>.17 (.06 to .29)</td>
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<thead>
<tr>
<th>State</th>
<th>Estimated Incidence Rate (95% CI)</th>
<th>2-Year Prevalence (95% CI)</th>
<th>5-Year Prevalence (95% CI)</th>
<th>10-Year Prevalence (95% CI)</th>
<th>1-Year Mortality (95% CI)</th>
<th>5-Year Mortality (95% CI)</th>
<th>10-Year Mortality (95% CI)</th>
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<tbody>
<tr>
<td>Michigan</td>
<td>13,067 (9,912 to 16,655)</td>
<td>17,720 (13,681 to 22,109)</td>
<td>21,926 (17,036 to 27,512)</td>
<td>.68 (.54 to .83)</td>
<td>.24 (.17 to .31)</td>
<td>124 (94 to 158)</td>
<td>132 (101 to 165)</td>
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<td>Minnesota</td>
<td>6,264 (4,750 to 8,128)</td>
<td>8,642 (6,667 to 10,921)</td>
<td>10,679 (8,252 to 13,443)</td>
<td>.71 (.5 to .92)</td>
<td>.24 (.17 to .3)</td>
<td>116 (87 to 151)</td>
<td>127 (98 to 161)</td>
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<td>Mississippi</td>
<td>3,577 (2,691 to 4,632)</td>
<td>4,675 (3,640 to 5,902)</td>
<td>5,428 (4,227 to 6,795)</td>
<td>.52 (.36 to .69)</td>
<td>.16 (.1 to .22)</td>
<td>117 (87 to 151)</td>
<td>129 (100 to 163)</td>
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<td>Missouri</td>
<td>8,482 (6,420 to 10,811)</td>
<td>11,557 (8,980 to 14,535)</td>
<td>14,012 (10,916 to 17,730)</td>
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<td>142 (110 to 179)</td>
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<td>2,607 (2,025 to 3,275)</td>
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<td>.24 (.18 to .31)</td>
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<td>150 (116 to 190)</td>
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<td>Nebraska</td>
<td>2,687 (2,041 to 3,441)</td>
<td>3,390 (2,628 to 4,220)</td>
<td>3,923 (2,996 to 4,914)</td>
<td>.46 (.32 to .61)</td>
<td>.16 (.1 to .22)</td>
<td>123 (93 to 158)</td>
<td>135 (103 to 169)</td>
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<td>Nevada</td>
<td>1,397 (1,044 to 1,828)</td>
<td>3,623 (2,799 to 4,587)</td>
<td>5,176 (4,027 to 6,523)</td>
<td>2.72 (2.26 to 3.19)</td>
<td>.43 (.37 to .5)</td>
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<td>129 (100 to 163)</td>
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<td>New Hampshire</td>
<td>1,631 (1,231 to 2,095)</td>
<td>2,799 (2,173 to 3,507)</td>
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<td>.27 (.22 to .33)</td>
<td>133 (100 to 172)</td>
<td>161 (125 to 203)</td>
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<tr>
<td>New Jersey</td>
<td>12,518 (9,544 to 16,032)</td>
<td>17,694 (13,834 to 22,170)</td>
<td>20,760 (16,168 to 25,820)</td>
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<td>129 (99 to 166)</td>
<td>147 (114 to 185)</td>
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<td>New Mexico</td>
<td>1,664 (1,245 to 2,172)</td>
<td>2,623 (2,036 to 3,288)</td>
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<td>108 (81 to 140)</td>
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<td>New York</td>
<td>29,543 (22,289 to 37,949)</td>
<td>39,194 (30,478 to 49,441)</td>
<td>45,115 (35,316 to 56,581)</td>
<td>.53 (.36 to .71)</td>
<td>.15 (.1 to .21)</td>
<td>131 (99 to 169)</td>
<td>149 (115 to 189)</td>
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<td>North Carolina</td>
<td>9,236 (6,995 to 11,859)</td>
<td>15,430 (11,974 to 19,383)</td>
<td>20,190 (15,676 to 25,417)</td>
<td>1.19 (.94 to 1.46)</td>
<td>.31 (.26 to .36)</td>
<td>122 (92 to 157)</td>
<td>137 (106 to 172)</td>
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<tr>
<td>North Dakota</td>
<td>1,020 (764 to 1,329)</td>
<td>1,265 (979 to 1,582)</td>
<td>1,434 (1,105 to 1,824)</td>
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<td>Late (15-39)</td>
<td>Old (40-64)</td>
<td>Very Old (≥65)</td>
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<tr>
<td>Ohio</td>
<td>17,111 (12,952 to 22,154)</td>
<td>24,036 (18,628 to 29,952)</td>
<td>28,063 (21,803 to 35,023)</td>
<td>≥70 (91 to 166)</td>
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<tr>
<td>Oklahoma</td>
<td>4,893 (3,701 to 6,207)</td>
<td>6,419 (4,984 to 8,092)</td>
<td>7,983 (6,238 to 10,001)</td>
<td>6.50 (.46 to .84)</td>
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<tr>
<td>Oregon</td>
<td>4,453 (3,350 to 5,816)</td>
<td>7,251 (5,643 to 9,074)</td>
<td>9,212 (7,208 to 11,544)</td>
<td>10.08 (.85 to 1.31)</td>
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<tr>
<td>Pennsylvania</td>
<td>22,207 (16,778 to 28,670)</td>
<td>29,416 (22,822 to 36,829)</td>
<td>32,953 (25,784 to 41,231)</td>
<td>4.49 (.33 to .66)</td>
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<tr>
<td>Rhode Island</td>
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<td>2,344 (1,816 to 2,942)</td>
<td>2,599 (2,009 to 3,266)</td>
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<td>South Carolina</td>
<td>4,475 (3,366 to 5,760)</td>
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<td>South Dakota</td>
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<tr>
<td>Tennessee</td>
<td>7,213 (5,466 to 9,317)</td>
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<td>13,478 (10,347 to 16,897)</td>
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<tr>
<td>Texas</td>
<td>20,236 (15,254 to 26,172)</td>
<td>34,109 (26,381 to 42,904)</td>
<td>46,258 (36,216 to 58,253)</td>
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<td>Utah</td>
<td>1,705 (1,294 to 2,209)</td>
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<tr>
<td>Vermont</td>
<td>822 (620 to 1,060)</td>
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<td>1,620 (1,241 to 2,045)</td>
<td>.98 (.70 to 1.17)</td>
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<td>Virginia</td>
<td>7,736 (5,839 to 9,955)</td>
<td>12,852 (9,957 to 16,115)</td>
<td>16,281 (12,644 to 20,348)</td>
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<td>Washington</td>
<td>6,724 (5,048 to 8,655)</td>
<td>11,179 (8,679 to 14,103)</td>
<td>14,763 (11,411 to 18,563)</td>
<td>1.2 (0.95 to 1.48)</td>
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<tbody>
<tr>
<td>Alabama</td>
<td>1,569 (1,225 to 2,092)</td>
<td>2,287 (1,552 to 2,703)</td>
<td>2,705 (1,853 to 3,330)</td>
<td>.74 (.33 to 1.13)</td>
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<td>Alaska</td>
<td>166 (101 to 203)</td>
<td>303 (176 to 378)</td>
<td>387 (219 to 504)</td>
<td>1.33 (.96 to 1.72)</td>
<td>.28 (.10 to 0.48)</td>
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<tr>
<td>Arizona</td>
<td>1,381 (1,065 to 1,812)</td>
<td>2,631 (1,943 to 3,311)</td>
<td>3,265 (2,530 to 4,405)</td>
<td>1.37 (1.11 to 1.68)</td>
<td>.24 (0.07 to 0.44)</td>
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<tr>
<td>Arkansas</td>
<td>944 (751 to 1,249)</td>
<td>1,406 (958 to 1,692)</td>
<td>1,649 (1,123 to 1,999)</td>
<td>.76 (0.39 to 1.12)</td>
<td>.17 (0.05 to 0.31)</td>
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<td>California</td>
<td>9,283 (7,705 to 13,968)</td>
<td>12,147 (9,813 to 18,482)</td>
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<td>.58 (0.31 to 0.88)</td>
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<tr>
<td>Colorado</td>
<td>1,138 (854 to 1,470)</td>
<td>1,928 (1,421 to 2,374)</td>
<td>2,601 (1,898 to 3,268)</td>
<td>1.29 (1.01 to 1.62)</td>
<td>.35 (0.21 to 0.5)</td>
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<tr>
<td>Connecticut</td>
<td>1,299 (1,063 to 1,828)</td>
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<td>District of Columbia</td>
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<td>393 (262 to 489)</td>
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<td>Wisconsin</td>
<td>7,676 (5,787 to 9,872)</td>
<td>10,566 (8,241 to 13,292)</td>
<td>12,571 (9,713 to 15,737)</td>
<td>.64 (.45 to .83)</td>
<td>.19 (.14 to .24)</td>
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<td>Wyoming</td>
<td>511 (385 to 668)</td>
<td>769 (591 to 978)</td>
<td>984 (754 to 1,241)</td>
<td>.93 (.74 to 1.14)</td>
<td>.28 (.21 to .35)</td>
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**Endocarditis**

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<td>1.29 (1.01 to 1.62)</td>
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<td>1,299 (1,063 to 1,828)</td>
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<td>393 (262 to 489)</td>
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<td>.09 (-0.1 to 0.32)</td>
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<td>(453 to 777)</td>
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<td>630</td>
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<td>(26 to 45)</td>
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<td>Iowa</td>
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<td>1,119</td>
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<td>1,293</td>
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<td>1,611</td>
<td>(1,197 to 1,940)</td>
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<td>640</td>
<td>(471 to 810)</td>
<td>743</td>
<td>(554 to 949)</td>
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<td>(26 to 44)</td>
<td>35</td>
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<td>1,875</td>
<td>(1,456 to 2,518)</td>
<td>2,544</td>
<td>(1,982 to 3,362)</td>
<td>2,999</td>
<td>(2,381 to 4,120)</td>
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<td>(.42 to .8)</td>
<td>.18</td>
<td>(.04 to .32)</td>
<td>.37</td>
<td>(29 to 50)</td>
<td>38</td>
<td>(30 to 51)</td>
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<tr>
<td>Massachusetts</td>
<td>2,213 (1,824 to 3,220)</td>
<td>2,645 (2,204 to 3,777)</td>
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<thead>
<tr>
<th>State</th>
<th>Prevalence (Lower to Upper)</th>
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<tbody>
<tr>
<td>Michigan</td>
<td>3,525 (2,695 to 4,681)</td>
<td>.55 (.36 to .76)</td>
<td>.15 (.05 to .26)</td>
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<tr>
<td>Minnesota</td>
<td>1,448 (1,195 to 2,113)</td>
<td>.61 (.41 to .85)</td>
<td>.21 (.08 to .34)</td>
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<td>Mississippi</td>
<td>923 (737 to 1,291)</td>
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<td>Missouri</td>
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<td>Montana</td>
<td>368 (240 to 437)</td>
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<td>404 (316 to 537)</td>
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<td>.23 (.11 to .36)</td>
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<td>3,458 (2,552 to 4,271)</td>
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<td>New Mexico</td>
<td>532 (400 to 678)</td>
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<td>New York</td>
<td>7,571 (5,813 to 9,823)</td>
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<td>North Carolina</td>
<td>2,502 (1,944 to 3,340)</td>
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<td>North Dakota</td>
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<table>
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<th>State</th>
<th>Population (2015)</th>
<th>Deaths (2015)</th>
<th>Confidence Interval</th>
<th>Hazard Ratio</th>
<th>95% CI for Hazard Ratio</th>
<th>Mortality Rate</th>
<th>95% CI for Mortality Rate</th>
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<tbody>
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<td>Ohio</td>
<td>4,247 (3,287 to 5,622)</td>
<td>5,747 (4,079 to 6,867)</td>
<td>6,602 (4,574 to 7,891)</td>
<td>.56 (.27 to .83)</td>
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<tr>
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<td>1,166 (949 to 1,636)</td>
<td>1,727 (1,193 to 2,070)</td>
<td>2,087 (1,452 to 2,533)</td>
<td>.81 (.4 to 1.22)</td>
<td>.21 (0.1 to .34)</td>
<td>.32 (26 to 45)</td>
<td>.43 (30 to 51)</td>
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<tr>
<td>Oregon</td>
<td>1,216 (860 to 1,472)</td>
<td>1,767 (1,230 to 2,074)</td>
<td>2,181 (1,535 to 2,613)</td>
<td>.79 (.59 to 1.02)</td>
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<td>.38 (26 to 44)</td>
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<td>Pennsylvania</td>
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<td>.34 (27 to 47)</td>
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<tr>
<td>South Carolina</td>
<td>1,296 (984 to 1,678)</td>
<td>2,068 (1,427 to 2,489)</td>
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<td>451 (323 to 550)</td>
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<td>Tennessee</td>
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<td>3,560 (2,548 to 4,333)</td>
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<tr>
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<td>3,432 (1,142 to 4,617)</td>
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<td>Georgia</td>
<td>12,874 (8,438 to 15,090)</td>
<td>24,599 (13,233 to 30,229)</td>
<td>.36 (.14 to .59)</td>
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<td>Hawaii</td>
<td>1,285 (1,078 to 1,920)</td>
<td>1,761 (1,460 to 2,617)</td>
<td>-.68 (.48 to .88)</td>
</tr>
<tr>
<td>Idaho</td>
<td>1,084 (852 to 1,755)</td>
<td>1,868 (1,530 to 2,751)</td>
<td>.135 (.81 to 1.85)</td>
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<tr>
<td>Illinois</td>
<td>23,231 (15,774 to 27,127)</td>
<td>29,784 (17,705 to 35,530)</td>
<td>.52 (.06 to .87)</td>
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<tr>
<td>Indiana</td>
<td>7,609 (6,134 to 11,865)</td>
<td>10,603 (8,814 to 15,281)</td>
<td>-.26 (-.09 to .42)</td>
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<td>Iowa</td>
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<td>4,563 (3,741 to 6,493)</td>
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<td>Kansas</td>
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<td>Louisiana</td>
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<td>15,362 (7,611 to 18,913)</td>
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<td>Maine</td>
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<td>.41 (.26 to .57)</td>
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<td>Maryland</td>
<td>11,488 (6,630 to 13,628)</td>
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<td>7,727 (6,404 to 12,080)</td>
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<td>29,039 (17,358 to 35,280)</td>
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<td>4,575</td>
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<td>(.73 to 1.26)</td>
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<td>(.32 to .71)</td>
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<td>(.22 to .57)</td>
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<td>26,722</td>
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<td>(.15 to .4)</td>
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<td>4,015</td>
<td>5,473</td>
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<td>(.22 to .51)</td>
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<td>Maryland</td>
<td>19,073</td>
<td>22,586</td>
<td>(19,488 to 23,014)</td>
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<td>(.07 to .31)</td>
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<tr>
<td>Massachusetts</td>
<td>20,282</td>
<td>21,801</td>
<td>(18,233 to 23,361)</td>
<td>.08</td>
<td>(-.04 to .19)</td>
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<th>State</th>
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<td>37,519</td>
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<td>16,298</td>
<td>18,801</td>
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<td>17,959</td>
<td>19,902</td>
<td>.4 (.23 to .59)</td>
<td>.11 (.02 to .25)</td>
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<td>24,704</td>
<td>27,732</td>
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<td>3,346</td>
<td>3,808</td>
<td>.44 (.26 to .65)</td>
<td>.14 (.01 to .29)</td>
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<td>6,406</td>
<td>7,215</td>
<td>.33 (.2 to .47)</td>
<td>.13 (.03 to .23)</td>
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<tr>
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<td>12,544</td>
<td>1.59 (1.32 to 1.88)</td>
<td>.18 (.06 to .3)</td>
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<tr>
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<td>3,585</td>
<td>4,347</td>
<td>.34 (.2 to .49)</td>
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<td>29,952</td>
<td>31,500</td>
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<td>6,196</td>
<td>7,255</td>
<td>.64 (.43 to .86)</td>
<td>.17 (.04 to .33)</td>
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<td>New York</td>
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<td>54,802</td>
<td>56,952</td>
<td>-21 (-3 to -.11)</td>
<td>.04 (-.07 to .16)</td>
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<td>42,546</td>
<td>49,851</td>
<td>.52 (.38 to .66)</td>
<td>.17 (.07 to .28)</td>
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<tr>
<td>North Dakota</td>
<td>2,101</td>
<td>2,196</td>
<td>2,627</td>
<td>.25 (.11 to .41)</td>
<td>.2 (.07 to .33)</td>
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<table>
<thead>
<tr>
<th>State</th>
<th>Inhabitants</th>
<th>Inhabitants 95% CI</th>
<th>Sex Adjusted Mortality Rate</th>
<th>Sex Adjusted Mortality Rate 95% CI</th>
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<tbody>
<tr>
<td>Ohio</td>
<td>41,531</td>
<td>(38,927 to 44,214)</td>
<td>.29 (.17 to .42)</td>
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<tr>
<td>Oklahoma</td>
<td>13,238</td>
<td>(12,367 to 14,052)</td>
<td>.46 (.32 to .61)</td>
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<tr>
<td>Oregon</td>
<td>10,517</td>
<td>(9,805 to 11,209)</td>
<td>.57 (.41 to .73)</td>
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<tr>
<td>Pennsylvania</td>
<td>49,683</td>
<td>(46,436 to 52,913)</td>
<td>.1 (0 to .2)</td>
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<tr>
<td>Rhode Island</td>
<td>3,428</td>
<td>(3,151 to 3,714)</td>
<td>.04 (-.08 to .18)</td>
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</tr>
<tr>
<td>South Carolina</td>
<td>21,018</td>
<td>(19,614 to 22,508)</td>
<td>.44 (.27 to .63)</td>
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<tr>
<td>South Dakota</td>
<td>2,377</td>
<td>(2,184 to 2,560)</td>
<td>.34 (.19 to .52)</td>
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<tr>
<td>Tennessee</td>
<td>22,890</td>
<td>(22,413 to 25,527)</td>
<td>.55 (.4 to .7)</td>
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<tr>
<td>Texas</td>
<td>63,820</td>
<td>(59,443 to 68,760)</td>
<td>.7 (.53 to .88)</td>
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<tr>
<td>Utah</td>
<td>4,093</td>
<td>(3,820 to 4,390)</td>
<td>1.06 (.84 to 1.29)</td>
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<tr>
<td>Vermont</td>
<td>1,621</td>
<td>(1,504 to 1,742)</td>
<td>2 (.08 to .33)</td>
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<tr>
<td>Virginia</td>
<td>24,565</td>
<td>(23,079 to 26,199)</td>
<td>.37 (.24 to .51)</td>
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<tr>
<td>Washington</td>
<td>15,850</td>
<td>(14,783 to 16,941)</td>
<td>.52 (.38 to .69)</td>
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<table>
<thead>
<tr>
<th>Location</th>
<th>Total Deaths 1990-1994</th>
<th>Total Deaths 1995-1999</th>
<th>Total Deaths 2000-2004</th>
<th>Point Estimate (95% CI)</th>
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<tbody>
<tr>
<td>West Virginia</td>
<td>7,854 (7,310 to 8,395)</td>
<td>9,123 (8,497 to 9,747)</td>
<td>10,269 (9,366 to 11,183)</td>
<td>0.31 (-0.18 to 0.45)</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>16,976 (15,812 to 18,083)</td>
<td>19,474 (18,241 to 20,714)</td>
<td>22,102 (20,356 to 24,070)</td>
<td>0.3 (-0.19 to 0.44)</td>
</tr>
<tr>
<td>Wyoming</td>
<td>1,305 (1,207 to 1,405)</td>
<td>1,787 (1,650 to 1,920)</td>
<td>1,989 (1,758 to 2,233)</td>
<td>0.53 (-0.35 to 0.73)</td>
</tr>
<tr>
<td>Ischemic heart disease</td>
<td></td>
<td></td>
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<tr>
<td>Alabama</td>
<td>178,117 (169,726 to 186,437)</td>
<td>158,680 (151,439 to 166,070)</td>
<td>165,656 (146,862 to 184,186)</td>
<td>-0.07 (-0.18 to 0.04)</td>
</tr>
<tr>
<td>Alaska</td>
<td>8,339 (7,859 to 8,854)</td>
<td>9,746 (9,118 to 10,371)</td>
<td>11,985 (10,457 to 13,562)</td>
<td>0.44 (0.24 to 0.65)</td>
</tr>
<tr>
<td>Arizona</td>
<td>124,129 (118,866 to 129,460)</td>
<td>135,582 (129,702 to 141,915)</td>
<td>148,189 (135,035 to 161,538)</td>
<td>0.19 (0.09 to 0.31)</td>
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<tr>
<td>Arkansas</td>
<td>114,818 (110,185 to 119,875)</td>
<td>103,688 (99,087 to 108,223)</td>
<td>108,871 (99,684 to 118,038)</td>
<td>-0.05 (-0.14 to 0.04)</td>
</tr>
<tr>
<td>California</td>
<td>877,887 (833,450 to 921,783)</td>
<td>738,985 (705,015 to 775,654)</td>
<td>740,401 (668,292 to 814,383)</td>
<td>-0.16 (-0.25 to -0.06)</td>
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<tr>
<td>Colorado</td>
<td>83,199 (79,402 to 86,706)</td>
<td>77,099 (73,357 to 80,602)</td>
<td>85,799 (78,873 to 93,152)</td>
<td>0.03 (-0.06 to 0.13)</td>
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<tr>
<td>Connecticut</td>
<td>118,689 (112,874 to 124,225)</td>
<td>78,712 (74,542 to 82,543)</td>
<td>72,934 (65,692 to 81,332)</td>
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<tr>
<td>Delaware</td>
<td>26,392 (25,300 to 27,630)</td>
<td>23,856 (22,800 to 24,889)</td>
<td>24,479 (22,664 to 26,261)</td>
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<tr>
<td>District of Columbia</td>
<td>25,769 (23,416 to 29,471)</td>
<td>19,106 (17,624 to 21,516)</td>
<td>15,684 (13,602 to 18,277)</td>
<td>-0.39 (-0.46 to -0.32)</td>
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<table>
<thead>
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<tbody>
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<td>524,421</td>
<td>546,256</td>
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<td>1,899</td>
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<th>State</th>
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<th>Mean Age</th>
<th>Female Survival Rate</th>
<th>Male Survival Rate</th>
<th>Short- and Long-term Survival Rate</th>
<th>30-Day Survival Rate</th>
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<td>-0.03</td>
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<tr>
<td><strong>Montana</strong></td>
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<td>3,753</td>
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<td>-0.35</td>
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<tr>
<td><strong>New Hampshire</strong></td>
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<td>2,692</td>
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<tr>
<td><strong>North Dakota</strong></td>
<td>23,683</td>
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<td>3,753</td>
<td>2,692</td>
<td>-0.35</td>
<td>-0.03</td>
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<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio</td>
<td>472,793 (455,276 to 491,140)</td>
<td>346,104 (332,919 to 361,078)</td>
<td>338,677 (315,308 to 363,269)</td>
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</tr>
<tr>
<td>Oklahoma</td>
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<td>141,349 (131,851 to 151,291)</td>
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<tr>
<td>Oregon</td>
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<td>75,215 (69,441 to 80,684)</td>
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<tr>
<td>Pennsylvania</td>
<td>570,975 (550,352 to 591,700)</td>
<td>385,413 (369,935 to 400,927)</td>
<td>357,853 (334,678 to 382,671)</td>
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</tr>
<tr>
<td>Rhode Island</td>
<td>44,503 (42,397 to 46,440)</td>
<td>30,926 (29,192 to 32,459)</td>
<td>26,979 (24,257 to 30,129)</td>
<td>-.39 (-.46 to -.32)</td>
</tr>
<tr>
<td>South Carolina</td>
<td>143,998 (136,915 to 151,080)</td>
<td>127,900 (121,605 to 133,934)</td>
<td>144,368 (130,562 to 158,830)</td>
<td>0 (-.11 to .12)</td>
</tr>
<tr>
<td>South Dakota</td>
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<td>151 (85 to 192)</td>
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Myocarditis

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<td>Alaska</td>
<td>565 (504 to 660)</td>
<td>693 (585 to 955)</td>
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<td>6,188 (4,667 to 6,935)</td>
<td>7,714 (6,810 to 9,753)</td>
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<td>3,891 (3,453 to 4,379)</td>
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<td>California</td>
<td>59,360 (37,616 to 69,634)</td>
<td>53,219 (43,401 to 58,715)</td>
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<td>Colorado</td>
<td>3,617 (3,253 to 4,343)</td>
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<td>Connecticut</td>
<td>6,013 (4,334 to 6,781)</td>
<td>5,009 (4,377 to 5,757)</td>
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<td>1,355 (980 to 1,540)</td>
<td>1,602 (1,325 to 1,773)</td>
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<td>2,400 (1,325 to 3,083)</td>
<td>1,260 (1,054 to 1,576)</td>
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<table>
<thead>
<tr>
<th>State</th>
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<td>31,786 (21,066 to 36,860)</td>
<td>35,391 (29,006 to 39,096)</td>
<td>39,360 (33,614 to 45,288)</td>
<td>37,347 (31,981 to 42,714)</td>
<td>40,495 (35,039 to 45,951)</td>
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<td>Georgia</td>
<td>14,274 (9,114 to 16,683)</td>
<td>15,170 (12,885 to 17,039)</td>
<td>16,222 (14,019 to 20,066)</td>
<td>19,050 (15,597 to 22,503)</td>
<td>157 (133 to 179)</td>
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<td>2,588 (1,243 to 3,165)</td>
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<td>223 (107 to 272)</td>
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<td>1,134 (1,018 to 1,358)</td>
<td>1,473 (1,259 to 2,046)</td>
<td>1,804 (1,468 to 2,604)</td>
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<td>21,204 (18,377 to 23,289)</td>
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<td>10,495 (7,631 to 11,876)</td>
<td>11,237 (9,523 to 12,376)</td>
<td>12,677 (10,663 to 14,516)</td>
<td>174 (127 to 197)</td>
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<td>4,172 (3,512 to 4,616)</td>
<td>3,411 (2,957 to 4,555)</td>
<td>3,704 (3,085 to 5,236)</td>
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<td>93 (80 to 126)</td>
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<td>Vermont</td>
<td>730 (640 to 826)</td>
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<tr>
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<td>11,600 (8,166 to 13,212)</td>
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<th>Year 3</th>
<th>Δ (Year 1 to Year 2)</th>
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<td>.13 (.03 to .25)</td>
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<td>(13,960 to 17,642)</td>
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<td>(16,307 to 21,214)</td>
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<td>(16,219 to 21,881)</td>
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<table>
<thead>
<tr>
<th>State</th>
<th>Total (95% CI)</th>
<th>Rate (95% CI)</th>
<th>Difference (95% CI)</th>
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<td>Minnesota</td>
<td>11,808 (10,443 to 13,511)</td>
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<td>Mississippi</td>
<td>8,798 (7,989 to 9,827)</td>
<td>.25 (.1 to .4)</td>
<td>.11 (.01 to .22)</td>
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<tr>
<td>Missouri</td>
<td>16,736 (14,826 to 19,016)</td>
<td>.25 (.15 to .36)</td>
<td>.14 (.06 to .22)</td>
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<tr>
<td>Montana</td>
<td>2,558 (2,240 to 2,912)</td>
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<td>5,411 (4,773 to 6,191)</td>
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<td>3,441 (3,065 to 3,870)</td>
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<td>.2 (.12 to .29)</td>
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<tr>
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<td>1,824 (1,586 to 2,127)</td>
<td>.02 (-.06 to .13)</td>
<td>.12 (.03 to .22)</td>
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<tr>
<td>Ohio</td>
<td>33,952 (30,256 to 38,328)</td>
<td>35,673 (31,658 to 40,707)</td>
<td>38,544 (34,010 to 43,814)</td>
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<tr>
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<td>13,580 (11,906 to 15,384)</td>
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<td>47,217 (42,123 to 53,621)</td>
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<tr>
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<td>2,719 (2,367 to 3,117)</td>
<td>2,837 (2,471 to 3,328)</td>
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<tr>
<td>South Carolina</td>
<td>11,856 (10,596 to 13,345)</td>
<td>14,848 (13,341 to 16,669)</td>
<td>18,417 (16,257 to 20,956)</td>
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<tr>
<td>South Dakota</td>
<td>1,975 (1,728 to 2,298)</td>
<td>2,009 (1,767 to 2,312)</td>
<td>2,366 (2,046 to 2,721)</td>
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<tr>
<td>Tennessee</td>
<td>14,672 (12,987 to 16,424)</td>
<td>18,550 (16,689 to 20,835)</td>
<td>22,562 (19,993 to 25,411)</td>
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<tr>
<td>Texas</td>
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<td>60,610 (53,403 to 68,961)</td>
<td>75,523 (66,082 to 85,428)</td>
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<td>5,927 (5,103 to 6,857)</td>
<td>7,444 (6,408 to 8,624)</td>
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<td>1,851 (1,635 to 2,116)</td>
<td>1,779 (1,578 to 2,011)</td>
<td>2,030 (1,798 to 2,331)</td>
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<td>22,427 (19,810 to 25,487)</td>
<td>25,476 (22,622 to 28,846)</td>
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<td>16,943 (15,141 to 19,033)</td>
<td>20,834 (18,447 to 23,455)</td>
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<table>
<thead>
<tr>
<th>State</th>
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<tr>
<td>West Virginia</td>
<td>6,595 (5,884 to 7,452)</td>
<td>6,640 (5,907 to 7,541)</td>
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<td>7,085 (.10 to .18)</td>
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<td>Wisconsin</td>
<td>14,899 (13,122 to 16,873)</td>
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<td>1,926 (.17 to .28)</td>
<td>1,925 (305 to 351)</td>
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**Peripheral artery disease**

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<th>2010 estimate (95% UI)</th>
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<td>Alabama</td>
<td>1,568 (1,074 to 2,054)</td>
<td>2,304 (1,627 to 3,612)</td>
<td>2,840 (2,087 to 4,601)</td>
<td>2,919 (.84 to .23)</td>
<td>2,968 (32 to 42)</td>
<td>3,082 (38 to 59)</td>
<td>3,199 (38 to 62)</td>
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<td>Alaska</td>
<td>72 (56 to 99)</td>
<td>162 (124 to 247)</td>
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<td>230 (30 to 42)</td>
<td>27 (31 to 37)</td>
<td>30 (32 to 42)</td>
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<td>Arizona</td>
<td>1,168 (851 to 1,583)</td>
<td>2,295 (1,729 to 3,207)</td>
<td>3,226 (2,411 to 4,625)</td>
<td>3,181 (1.78 to .4)</td>
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<td>Arkansas</td>
<td>971 (683 to 1,305)</td>
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<td>1,698 (1,223 to 2,806)</td>
<td>1,671 (.76 to .21)</td>
<td>30 (30 to 42)</td>
<td>36 (25 to 36)</td>
<td>37 (27 to 61)</td>
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<tr>
<td>California</td>
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<td>Delaware</td>
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### Rheumatic heart disease

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<td>348 (320 to 377)</td>
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<td>2,463 (2,309 to 2,640)</td>
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<td>2,100 (1,975 to 2,234)</td>
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<td>California</td>
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<td>7,968 (7,423 to 8,554)</td>
<td>9,112 (8,233 to 10,044)</td>
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### eTable 2. Age-standardized heart failure prevalence per 100 000 persons for 2016

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<th>Male</th>
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eFigure 1. US State rankings for age-standardized cardiovascular disease disability-adjusted life-year rates per 100,000 persons for both sexes combined in 2016

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</tbody>
</table>
eFigure 2. Proportion of cardiovascular disease disability-adjusted life-years due to years lived with disability in 2016.
eFigure 3. Leading level 2 cardiovascular risk factors for both sexes for Minnesota and Mississippi

A. Minnesota

<table>
<thead>
<tr>
<th>Leading risks 1990</th>
<th>Leading risks 2006</th>
<th>Mean % change number of DALYs 1990-2006</th>
<th>Mean % change all-age DALY rate 1990-2006</th>
<th>Mean % change age-standardised DALY rate 1990-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dietary risks</td>
<td>Dietary risks</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>High blood pressure</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>High total cholesterol</td>
<td>High total cholesterol</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Tobacco</td>
<td>Tobacco</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>High fasting plasma glucose</td>
<td>High fasting plasma glucose</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Low physical activity</td>
<td>Low physical activity</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Impaired kidney function</td>
<td>Impaired kidney function</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Air pollution</td>
<td>Air pollution</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Other environmental</td>
<td>Other environmental</td>
<td>-32.8%</td>
<td>-43.6%</td>
<td>-49.9%</td>
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</tbody>
</table>

<table>
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<tr>
<th>Leading risks 2016</th>
<th>Mean % change number of DALYs 2006-2016</th>
<th>Mean % change all-age DALY rate 2006-2016</th>
<th>Mean % change age-standardised DALY rate 2006-2016</th>
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</thead>
<tbody>
<tr>
<td>Dietary risks</td>
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<td>0.4%</td>
<td>-11.0%</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>5.3%</td>
<td>-1.4%</td>
<td>-13.7%</td>
</tr>
<tr>
<td>High body-mass index</td>
<td>12.1%</td>
<td>4.9%</td>
<td>-7.1%</td>
</tr>
<tr>
<td>High total cholesterol</td>
<td>-1.2%</td>
<td>-7.3%</td>
<td>-16.0%</td>
</tr>
<tr>
<td>High fasting plasma glucose</td>
<td>5.6%</td>
<td>-1.2%</td>
<td>-14.6%</td>
</tr>
<tr>
<td>Tobacco</td>
<td>-13.8%</td>
<td>-19.3%</td>
<td>-27.5%</td>
</tr>
<tr>
<td>Low physical activity</td>
<td>0.7%</td>
<td>-0.0%</td>
<td>-11.4%</td>
</tr>
<tr>
<td>Impaired kidney function</td>
<td>7.3%</td>
<td>0.4%</td>
<td>-11.3%</td>
</tr>
<tr>
<td>Air pollution</td>
<td>0.9%</td>
<td>-0.4%</td>
<td>-16.3%</td>
</tr>
<tr>
<td>Other environmental</td>
<td>1.7%</td>
<td>-4.0%</td>
<td>-14.7%</td>
</tr>
</tbody>
</table>

Legend:
- Environmental
- Renal
- Metabolic
### Leading level 2 cardiovascular risk factors of Mississippi, both sexes

Risks are connected by lines between time periods. Behavioral risk factors are shown in red, environmental risks in blue and metabolic risks in green.

For the time period 1990 to 2008 and for 2008 to 2016, three measures of change are shown: percent change in the number of DALYs, percent change in the all-age DALY rate and percent change in the age-standardised DALY rate. Statistically significant increases or decreases are shown in bold (p < 0.05). DALYs = disability-adjusted life-years.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>-9.9%</td>
<td>-19.7%</td>
<td>-29.6%</td>
<td>Dietary risks</td>
<td>3.4%</td>
<td>0.5%</td>
<td>-5.6%</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>High blood pressure</td>
<td>-11.6%</td>
<td>-20.6%</td>
<td>-28.0%</td>
<td>High blood pressure</td>
<td>3.7%</td>
<td>0.6%</td>
<td>-10.2%</td>
</tr>
<tr>
<td>High total cholesterol</td>
<td>High total cholesterol</td>
<td>-12.8%</td>
<td>-22.3%</td>
<td>-31.6%</td>
<td>High total cholesterol</td>
<td>-2.6%</td>
<td>-5.3%</td>
<td>-12.2%</td>
</tr>
<tr>
<td>High body mass index</td>
<td>High body mass index</td>
<td>35.3%</td>
<td>18.9%</td>
<td>9.6%</td>
<td>High body mass index</td>
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<td>-6.5%</td>
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<td>0.5%</td>
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</tr>
<tr>
<td>Tobacco</td>
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<td>-18.7%</td>
<td>-28.9%</td>
<td>Tobacco</td>
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<td>-12.9%</td>
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<td>-30.5%</td>
<td>Air pollution</td>
<td>-8.5%</td>
<td>-11.1%</td>
<td>-19.3%</td>
</tr>
<tr>
<td>Low physical activity</td>
<td>Low physical activity</td>
<td>-12.9%</td>
<td>-22.4%</td>
<td>-30.5%</td>
<td>Low physical activity</td>
<td>-8.5%</td>
<td>-11.1%</td>
<td>-19.3%</td>
</tr>
<tr>
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<td>-8.8%</td>
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<td>-28.1%</td>
<td>Impaired kidney function</td>
<td>-8.8%</td>
<td>-18.7%</td>
<td>-28.1%</td>
</tr>
<tr>
<td>Occupational risks</td>
<td>Occupational risks</td>
<td>68.3%</td>
<td>40.2%</td>
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<td>Occupational risks</td>
<td>14.5%</td>
<td>13.3%</td>
<td>5.0%</td>
</tr>
</tbody>
</table>

**Legend:**
- **Environmental**
- **Behavioral**
- **Metabolic**

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eFigure 4. US State drivers of change in cardiovascular disease from 1990 to 2016
eFigure 5. Age-standardized percentage change in disability-adjusted life-year rate between 2010 and 2016 for all cardiovascular diseases in men and women

A. Men

B. Women