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\(^1,2,3\). 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\(^1,2\). 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\(^1,2\).

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\(^1\). 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 reassign 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.
eMethods 4. Nonfatal modeling methods

Nonfatal estimates for cardiovascular diseases were modeled using the DisMod-MR 2.1 platform. Morbidity modeling methods have been documented elsewhere. 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 elsewhere3.
eReferences.


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>
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<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>3</td>
<td>Describe how the data were identified and how the data were accessed.</td>
<td>Narrative description of data seeking methodology provided in previously published appendices.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.</td>
<td>Narrative about inclusion and exclusion criteria by data type provided in previously published appendices.</td>
<td></td>
</tr>
</tbody>
</table>


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<table>
<thead>
<tr>
<th></th>
<th>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.</th>
<th>Interactive, online data source tool that provides metadata for data sources by component, geography, cause, risk, or impairment has been developed.</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>
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<td>5</td>
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</table>
| 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.  
<p>| | | |</p>
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<tbody>
<tr>
<td>7</td>
<td>Describe and give sources for any other data inputs.</td>
<td>Included in list of all data sources provided on online data source tool.</td>
</tr>
<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>
</tr>
</tbody>
</table>

**Data analysis**


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Describe how candidate models were evaluated and how the final model(s) were selected.

Provided in the methodological write-ups of previously published appendices.


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<tr>
<td>14</td>
<td>State how analytic or statistical source code used to generate estimates can be accessed.</td>
<td>Access statement provided.</td>
</tr>
<tr>
<td>15</td>
<td>Provide published estimates in a file format from which data can be efficiently extracted.</td>
<td>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).</td>
</tr>
<tr>
<td>16</td>
<td>Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).</td>
<td>Uncertainty intervals are provided with all results.</td>
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## Appendix Table 2. GBD 2016 Cause and Sequela Hierarchy for Cardiovascular Diseases

<table>
<thead>
<tr>
<th>Causes and sequelae</th>
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<tbody>
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<td>Cardiovascular diseases</td>
<td>2</td>
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<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>
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<tr>
<td>Acute myocardial infarction first 2 days</td>
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<tr>
<td>Asymptomatic angina due to ischemic heart disease</td>
<td>5</td>
</tr>
<tr>
<td>Asymptomatic ischemic heart disease following myocardial infarction</td>
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</tr>
<tr>
<td>Mild angina due to ischemic heart disease</td>
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</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>
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<tr>
<td>Severe heart failure due to ischemic heart disease</td>
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<tr>
<td>Cerebrovascular disease</td>
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<tr>
<td>Ischemic stroke</td>
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<td>Acute ischemic stroke severity level 1</td>
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<td>Acute ischemic stroke severity level 2</td>
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<tr>
<td>Acute ischemic stroke severity level 5</td>
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<td>Asymptomatic chronic ischemic stroke</td>
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</tr>
<tr>
<td>Chronic ischemic stroke severity level 1</td>
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<tr>
<td>Chronic ischemic stroke severity level 2</td>
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</tr>
<tr>
<td>Chronic ischemic stroke severity level 3</td>
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<tr>
<td>Condition</td>
<td>Severity Level</td>
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<td>Chronic ischemic stroke</td>
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<tr>
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<tr>
<td>Hemorrhagic stroke</td>
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<td>Asymptomatic chronic hemorrhagic stroke</td>
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<tr>
<td>Asymptomatic and mild heart failure due to hypertension</td>
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<tr>
<td>Severe heart failure due to hypertension</td>
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<td>Myocarditis</td>
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<td>Acute myocarditis</td>
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<tr>
<td>Asymptomatic and mild heart failure due to myocarditis</td>
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<td>Moderate heart failure due to myocarditis</td>
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<tr>
<td>Severe heart failure due to myocarditis</td>
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<td>Asymptomatic and mild heart failure due to alcoholic cardiomyopathy</td>
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</tr>
<tr>
<td>Moderate heart failure due to alcoholic cardiomyopathy</td>
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<tr>
<td>Severe heart failure due to alcoholic cardiomyopathy</td>
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<td>Other cardiomyopathy</td>
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<tr>
<td>Condition</td>
<td>Value</td>
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<td>Moderate heart failure due to other cardiomyopathy</td>
<td>5</td>
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<tr>
<td>Severe heart failure due to other cardiomyopathy</td>
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<tr>
<td>Atrial fibrillation and flutter</td>
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<td>Asymptomatic atrial fibrillation and flutter</td>
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<tr>
<td>Symptomatic atrial fibrillation and flutter</td>
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<td>Aortic aneurysm</td>
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<td>Peripheral artery disease</td>
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<td>Symptomatic claudication due to peripheral vascular disease</td>
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<td>Endocarditis</td>
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<td>Moderate endocarditis</td>
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<td>Moderate heart failure due to endocarditis</td>
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<tr>
<td>Severe endocarditis</td>
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<td>Severe heart failure due to endocarditis</td>
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<td>Other cardiovascular and circulatory diseases</td>
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<td>Mild other cardiovascular diseases</td>
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<tr>
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<td>Severe heart failure due to other cardiovascular diseases</td>
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<tr>
<td>Severe other cardiovascular diseases</td>
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### Appendix Table 3a. GBD 2016 CODem model covariates by CVD Cause

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<th>Cause Name</th>
<th>Covariate</th>
<th>Transformation</th>
<th>Level</th>
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<td>Cardiovascular diseases</td>
<td>Cholesterol (total, mean per capita)</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Smoking prevalence</td>
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<td>1</td>
<td>1</td>
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<td>Cardiovascular diseases</td>
<td>Systolic blood pressure (mmHg)</td>
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<tr>
<td>Cardiovascular diseases</td>
<td>Trans fatty acid</td>
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<td>Cardiovascular diseases</td>
<td>Mean BMI</td>
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<td>Cardiovascular diseases</td>
<td>Elevation over 1500m (proportion)</td>
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<td>Fasting plasma glucose (mmol/L)</td>
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<td>Outdoor pollution (PM$_{2.5}$)</td>
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<td>Cardiovascular diseases</td>
<td>Indoor air pollution (all fuel types)</td>
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<td>Socio-demographic Index</td>
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<td>Omega-3 (kcal/capita, adjusted)</td>
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<td>-1</td>
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<td>Cardiovascular diseases</td>
<td>Vegetables (kcal/capita, adjusted)</td>
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<td>Rheumatic heart disease</td>
<td>Improved water (proportion)</td>
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<td>Rheumatic heart disease</td>
<td>Malnutrition</td>
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<td>Rheumatic heart disease</td>
<td>Sanitation (proportion with access)</td>
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<td>Education (years per capita)</td>
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<td>Summary exposure variable</td>
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<tr>
<td>Atrial fibrillation and flutter</td>
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<tr>
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<td>PUFA adjusted (percent)</td>
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<td>Alcohol (litres per capita)</td>
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<td>Mean body mass index (kg/m²)</td>
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<td>Improved water (proportion)</td>
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<td>Sanitation (proportion with access)</td>
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<tr>
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<td>Trans fatty acid (percent)</td>
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<td>Mean BMI</td>
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<td>Elevation over 1500m (proportion)</td>
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<td>Fasting plasma glucose (mmol/L)</td>
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<td>Indoor air pollution (all fuel types)</td>
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<td>Outdoor air pollution (PM_{2.5})</td>
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</table>

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<table>
<thead>
<tr>
<th>Other cardiovascular and circulatory diseases</th>
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<th>None</th>
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<td>Other cardiovascular and circulatory diseases</td>
<td>Fruits (kcal/capita, adjusted)</td>
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<td>3</td>
<td>-1</td>
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<tr>
<td>Other cardiovascular and circulatory diseases</td>
<td>Vegetables (kcal/capita, adjusted)</td>
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<td>Other cardiovascular and circulatory diseases</td>
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<td>Other cardiovascular and circulatory diseases</td>
<td>Pulses/legumes (kcal/capita, adjusted)</td>
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<tr>
<td>Other cardiovascular and circulatory diseases</td>
<td>PUFA adjusted (percent)</td>
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<td>Other cardiovascular and circulatory diseases</td>
<td>Alcohol (litres per capita)</td>
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## Appendix Table 3b. GBD 2016 Dismod model covariates by CVD Cause

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<tr>
<th>Cause</th>
<th>Covariate Name</th>
<th>Measure</th>
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<tbody>
<tr>
<td>Acute Myocardial Infarction</td>
<td>Diagnostic blood sample (troponin)</td>
<td>Incidence</td>
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<td>Acute Myocardial Infarction</td>
<td>First ever MI</td>
<td>Incidence</td>
</tr>
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<td>Acute Myocardial Infarction</td>
<td>LDI (I$ per capita)</td>
<td>Excess mortality rate</td>
</tr>
<tr>
<td>Acute Myocardial Infarction</td>
<td>Log-transformed age-standardized SEV scalar: IHD</td>
<td>Incidence</td>
</tr>
<tr>
<td>Acute Myocardial Infarction</td>
<td>Non-fatal MI</td>
<td>Incidence</td>
</tr>
<tr>
<td>Acute Myocarditis</td>
<td>All MarketScan, year 2000</td>
<td>Incidence</td>
</tr>
<tr>
<td>Acute Myocarditis</td>
<td>All MarketScan, year 2010</td>
<td>Incidence</td>
</tr>
<tr>
<td>Acute Myocarditis</td>
<td>LDI (I$ per capita)</td>
<td>Excess mortality rate</td>
</tr>
<tr>
<td>Acute Myocarditis</td>
<td>Log-transformed age-standardized SEV scalar: CMP</td>
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</tr>
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<td>Angina</td>
<td>LDI (I$ per capita)</td>
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</tr>
<tr>
<td>Angina</td>
<td>Log-transformed age-standardized SEV scalar: IHD</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, female, 50 to 64</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, female, 65 plus</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, female, less than 50</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, male, 50 to 64</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, male, 65 plus</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Angina</td>
<td>RAQ, male, less than 50</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Atrial Fibrillation</td>
<td>All MarketScan, year 2000</td>
<td>Prevalence</td>
</tr>
<tr>
<td>Atrial Fibrillation</td>
<td>All MarketScan, year 2010</td>
<td>Prevalence</td>
</tr>
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<td>Atrial Fibrillation</td>
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<td>LDI (I$ per capita)</td>
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<tr>
<td>Atrial Fibrillation</td>
<td>Log-transformed age-standardized SEV scalar: A Fib</td>
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<td>Chronic hemorrhagic stroke</td>
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<td>Chronic hemorrhagic stroke</td>
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<td>Chronic ischemic stroke</td>
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<td>Excess mortality rate</td>
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<td>Chronic ischemic stroke</td>
<td>Log-transformed SEV scalar: Isch Stroke</td>
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<td>Endocarditis</td>
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</tr>
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<td>Endocarditis</td>
<td>Inpatient-only Marketscan, year 2000</td>
<td>Incidence</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>Inpatient-only Marketscan, year 2010</td>
<td>Incidence</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>LDI (I$per capita)</td>
<td>Excess mortality rate</td>
</tr>
<tr>
<td>Endocarditis</td>
<td>Log-transformed age-standardized SEV scalar: endocarditis</td>
<td>Incidence</td>
</tr>
<tr>
<td>First ever acute hemorrhagic stroke</td>
<td>Any stroke</td>
<td>Incidence</td>
</tr>
<tr>
<td>First ever acute hemorrhagic stroke</td>
<td>Any stroke</td>
<td>Excess mortality rate</td>
</tr>
<tr>
<td>First ever acute hemorrhagic stroke</td>
<td>First-ever acute stroke, ischemic or hemorrhagic</td>
<td>Incidence</td>
</tr>
<tr>
<td>First ever acute hemorrhagic stroke</td>
<td>First-ever acute stroke, ischemic or hemorrhagic</td>
<td>Excess mortality rate</td>
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<td>First ever acute hemorrhagic stroke</td>
<td>Hospital data</td>
<td>Incidence</td>
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<table>
<thead>
<tr>
<th>Condition</th>
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<tr>
<td>First ever acute ischemic stroke</td>
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<tr>
<td>First ever acute ischemic stroke</td>
<td>First-ever acute stroke, ischemic or hemorrhagic</td>
<td>Incidence</td>
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<td>First ever acute ischemic stroke</td>
<td>Hospital data</td>
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<td>HF Envelope</td>
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<td>Proportion</td>
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<td>Excess mortality rate</td>
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## Appendix Table 4: List of International Classification of Diseases (ICD) codes mapped to the Global Burden of Disease cause list for Cardiovascular Diseases

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<td>Cerebrovascular disease</td>
<td>G45-G46.8, 160-164, 164.1, 165-169.998, Z82.3</td>
<td>I63-I63.9, 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>Ischemic stroke</td>
<td>G45-G46.8, 163-163.9, 165-166.9, 167.2-167.848, 169.3-169.4</td>
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<td>Hemorrhagic stroke</td>
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<td>I60-I62.9, I67.0-167.1, 169.0-169.298</td>
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<td>Hypertensive heart disease</td>
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<td>Cardiomyopathy and myocarditis</td>
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<td>Myocarditis</td>
<td>B33.2-B33.20, B33.22-B33.24, D86.85, I40-141.8, 151.4-151.6</td>
<td>B33.2-B33.20, B33.22-B33.24, D86.85, I40-141.8, 151.4-151.6</td>
<td>074.2, 074.23, 422-422.99, 429.0-429.1</td>
<td>074.2, 074.23, 422-422.99, 429.0-429.1</td>
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<td>Alcoholic cardiomyopathy</td>
<td>I42.6</td>
<td>I42.6</td>
<td>425.0-425.4, 425.7-425.9</td>
<td>425.0-425.4, 425.7-425.9</td>
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<tr>
<td>Other cardiomyopathy</td>
<td>I42.0-I42.5, I42.7-143.8</td>
<td>I48-148.92</td>
<td>427.3-427.32</td>
<td>427.3-427.32</td>
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<td>Atrial fibrillation and flutter</td>
<td>I48-148.92</td>
<td>I48-148.92</td>
<td>440.2-440.39, 440.4-440.9, 443-443.9</td>
<td>440.2-440.39, 440.4-443.9</td>
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<td>Peripheral artery disease</td>
<td>I70.2-I70.92, I73-173.9</td>
<td>I70.2-I73.9</td>
<td>440.2-440.9, 440.4-440.9, 443-443.9</td>
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<td>Endocarditis</td>
<td>B33.21, I33-I33.9, I38-I38.0, I39-I39.9</td>
<td>B33.21, I33-I39.9</td>
<td>074.22, 421-421.9, 424, 424.4-424.99</td>
<td>074.22, 421-421.9, 424, 424.4-424.99</td>
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<td>Other cardiovascular and circulatory diseases</td>
<td>I30-I32.8, I34-I37.9, I51-151.3, 151.7-152.8, I72-I72.9, 177-183.93, 186-189.0, I89.9, I95.0-195.1, I98, I98.8-199.9, K75.1</td>
<td>I30-I32.8, I34-I37.9, I51-151.3, 151.7-152.8, I72-I72.9, 177-183.93, 186-189.0, 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>
<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>Panel Study of Income Dynamics, 2007 public use dataset. Produced and distributed by the University of Michigan with primary funding from the National Science Foundation, the National Institute of Aging, and the National Institute of Child Health and Human Development. Ann Arbor, MI, (2011)</td>
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<td>Rheumatic heart disease</td>
<td>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), US Census Bureau. United States National Health Interview Survey 2008. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</td>
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<td>Rheumatic heart disease</td>
<td>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), United States Census Bureau. United States National Hospital Discharge Survey 1990. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</td>
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<td>Rheumatic heart disease</td>
<td>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), United States Census Bureau. United States National Hospital Discharge Survey 1991. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</td>
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<tr>
<td>Rheumatic heart disease</td>
<td>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), United States Census Bureau. United States National Hospital Discharge Survey 1992. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</td>
</tr>
</tbody>
</table>

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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>Cause</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>Alcohol cardiomyopathy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<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>
</tr>
<tr>
<td>Arizona</td>
<td>1,113 (893 to 1,420)</td>
<td>2,234 (1,835 to 2,827)</td>
<td>2,641 (2,118 to 4,230)</td>
<td>1.39 (.85 to 2.81)</td>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
</tr>
<tr>
<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>
<td>1.05 (.58 to 2.06)</td>
</tr>
<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>
<td>.18 (-.12 to .92)</td>
</tr>
<tr>
<td>Delaware</td>
<td>330 (185 to 401)</td>
<td>433 (295 to 510)</td>
<td>496 (366 to 598)</td>
<td>.54 (.2 to 1.24)</td>
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<tr>
<td>District of Columbia</td>
<td>612 (201 to 883)</td>
<td>441 (234 to 582)</td>
<td>428 (259 to 550)</td>
<td>-.25 (-.49 to .45)</td>
</tr>
<tr>
<td>State</td>
<td>Mean (95% CI)</td>
<td>95% CI of Estimate (95% CI)</td>
<td>Mean (95% CI)</td>
<td>95% CI of Estimate (95% CI)</td>
</tr>
<tr>
<td>--------------</td>
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<td>-----------------------------</td>
</tr>
<tr>
<td>Florida</td>
<td>6,955 (3,459 to 8,650)</td>
<td>12,041 (7,937 to 14,778)</td>
<td>.78 (.37 to 1.72)</td>
<td>.23 (.03 to .45)</td>
</tr>
<tr>
<td>Georgia</td>
<td>2,331 (1,408 to 2,961)</td>
<td>6,067 (4,095 to 7,591)</td>
<td>1.67 (.7 to 3.15)</td>
<td>.26 (.02 to .55)</td>
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<td>Hawaii</td>
<td>615 (260 to 796)</td>
<td>885 (475 to 1,117)</td>
<td>.49 (.16 to 1.07)</td>
<td>.18 (-.01 to .37)</td>
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<tr>
<td>Idaho</td>
<td>279 (222 to 374)</td>
<td>553 (417 to 953)</td>
<td>.98 (.49 to 1.86)</td>
<td>.35 (.13 to .6)</td>
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<tr>
<td>Illinois</td>
<td>4,672 (2,574 to 5,780)</td>
<td>5,653 (4,476 to 7,559)</td>
<td>.26 (-.08 to 1.48)</td>
<td>.18 (0 to .43)</td>
</tr>
<tr>
<td>Indiana</td>
<td>2,329 (1,395 to 2,820)</td>
<td>2,985 (2,375 to 4,147)</td>
<td>.32 (-.03 to 1.2)</td>
<td>.06 (-.14 to .33)</td>
</tr>
<tr>
<td>Iowa</td>
<td>975 (730 to 1,161)</td>
<td>1,259 (975 to 2,023)</td>
<td>.3 (-.01 to 1.05)</td>
<td>.17 (-.01 to .37)</td>
</tr>
<tr>
<td>Kansas</td>
<td>902 (614 to 1,076)</td>
<td>1,225 (966 to 1,805)</td>
<td>.38 (.02 to 1.16)</td>
<td>.1 (-.1 to .34)</td>
</tr>
<tr>
<td>Kentucky</td>
<td>1,204 (963 to 1,570)</td>
<td>1,910 (1,487 to 3,180)</td>
<td>.59 (.21 to 1.44)</td>
<td>.14 (-.04 to .34)</td>
</tr>
<tr>
<td>Louisiana</td>
<td>1,598 (1,053 to 1,980)</td>
<td>2,251 (1,821 to 3,373)</td>
<td>.43 (.08 to 1.13)</td>
<td>.3 (.12 to .51)</td>
</tr>
<tr>
<td>Maine</td>
<td>501 (327 to 590)</td>
<td>686 (519 to 917)</td>
<td>.39 (.08 to 1.14)</td>
<td>.2 (.02 to .4)</td>
</tr>
<tr>
<td>Maryland</td>
<td>2,063 (1,093 to 2,600)</td>
<td>3,250 (2,483 to 3,997)</td>
<td>.64 (.2 to 2.09)</td>
<td>.22 (.04 to .42)</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>1,731 (1,394 to 2,501)</td>
<td>2,409 (1,839 to 4,341)</td>
<td>.4 (.05 to 1.5)</td>
<td>.15 (-.03 to .38)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>State</th>
<th>AHE (95% CI)</th>
<th>MHE (95% CI)</th>
<th>ACHE (95% CI)</th>
<th>PHE (95% CI)</th>
<th>LHE (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michigan</td>
<td>3,556 (2,223 to 4,345)</td>
<td>5,287 (3,571 to 6,206)</td>
<td>5,589 (4,117 to 7,022)</td>
<td>.6 (.23 to 1.37)</td>
<td>.06 (-.13 to .31)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>1,184 (957 to 1,563)</td>
<td>1,684 (1,191 to 2,794)</td>
<td>2,144 (1,493 to 3,616)</td>
<td>.81 (.34 to 1.74)</td>
<td>.27 (.08 to .5)</td>
</tr>
<tr>
<td>Mississippi</td>
<td>1,124 (694 to 1,366)</td>
<td>1,502 (1,245 to 2,056)</td>
<td>1,699 (1,342 to 2,415)</td>
<td>.55 (.14 to 1.45)</td>
<td>.13 (-.07 to .36)</td>
</tr>
<tr>
<td>Missouri</td>
<td>2,002 (1,346 to 2,394)</td>
<td>2,266 (1,910 to 3,191)</td>
<td>2,272 (1,783 to 3,780)</td>
<td>.16 (-.17 to 1.03)</td>
<td>0 (-.19 to .26)</td>
</tr>
<tr>
<td>Montana</td>
<td>258 (201 to 319)</td>
<td>313 (251 to 511)</td>
<td>379 (285 to 677)</td>
<td>.47 (-.09 to 1.38)</td>
<td>.21 (-.02 to .46)</td>
</tr>
<tr>
<td>Nebraska</td>
<td>483 (397 to 629)</td>
<td>538 (435 to 903)</td>
<td>623 (482 to 1,071)</td>
<td>.29 (-.01 to 1.01)</td>
<td>.15 (-.02 to .34)</td>
</tr>
<tr>
<td>Nevada</td>
<td>518 (333 to 666)</td>
<td>1,175 (910 to 1,436)</td>
<td>1,779 (1,263 to 2,166)</td>
<td>2.5 (1.41 to 4.21)</td>
<td>.52 (.19 to .86)</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>379 (291 to 475)</td>
<td>463 (383 to 701)</td>
<td>570 (455 to 891)</td>
<td>.51 (.16 to 1.25)</td>
<td>.23 (.05 to .43)</td>
</tr>
<tr>
<td>New Jersey</td>
<td>4,058 (2,216 to 4,979)</td>
<td>4,786 (2,840 to 5,654)</td>
<td>4,450 (3,087 to 5,571)</td>
<td>.13 (-.14 to 1.03)</td>
<td>-.06 (-.24 to .17)</td>
</tr>
<tr>
<td>New Mexico</td>
<td>526 (370 to 628)</td>
<td>792 (652 to 1,161)</td>
<td>877 (683 to 1,411)</td>
<td>.69 (.24 to 1.75)</td>
<td>.11 (-.1 to .37)</td>
</tr>
<tr>
<td>New York</td>
<td>6,511 (4,907 to 8,600)</td>
<td>6,689 (5,408 to 10,422)</td>
<td>7,080 (5,325 to 12,409)</td>
<td>1 (-.22 to 1.06)</td>
<td>.05 (-.14 to .28)</td>
</tr>
<tr>
<td>North Carolina</td>
<td>3,256 (1,636 to 4,031)</td>
<td>4,743 (2,925 to 5,572)</td>
<td>5,895 (3,893 to 7,178)</td>
<td>.87 (.44 to 2.22)</td>
<td>.25 (.05 to .58)</td>
</tr>
<tr>
<td>North Dakota</td>
<td>195 (154 to 266)</td>
<td>190 (152 to 328)</td>
<td>242 (182 to 421)</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>95% CI</th>
<th>95% CI</th>
<th>95% CI</th>
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<th>95% CI</th>
<th>95% CI</th>
<th>95% CI</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio</td>
<td>2,958</td>
<td>4,361</td>
<td>5,781</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>
<td>.51 (.07 to 1.03)</td>
<td>.21 (.01 to .43)</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>
<td>.15 (-.13 to .84)</td>
<td>.17 (0 to .39)</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 (1,355 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>
<td>.11 (-.17 to .65)</td>
<td>.1 (-.07 to .28)</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>
<td>.06 (-.18 to .51)</td>
<td>.09 (-.08 to .3)</td>
</tr>
<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>
<td>-.16 (-.38 to .27)</td>
<td>.01 (-.15 to .21)</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>
<td>-.02 (-.25 to .5)</td>
<td>-.06 (-.23 to .14)</td>
</tr>
<tr>
<td>South Dakota</td>
<td>250 (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>
<td>-.07 (-.3 to .38)</td>
<td>.1 (-.09 to .3)</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>1.27 (.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>
<td>.36 (.05 to 1.25)</td>
<td>.23 (.02 to .43)</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 13,566)</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>
<td>-.18 (-.42 to .5)</td>
<td>-.15 (-.32 to .11)</td>
</tr>
<tr>
<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>.2 (.2 to .64)</td>
<td>25 (20 to 33)</td>
<td>21 (17 to 36)</td>
<td>23 (18 to 40)</td>
<td>-.09 (-.31 to .34)</td>
<td>.06 (-.09 to .24)</td>
</tr>
<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>
<td>-.19 (-.38 to .22)</td>
<td>.03 (-.13 to .21)</td>
</tr>
<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>
<td>.06 (-.22 to .68)</td>
<td>.11 (-.08 to .32)</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>
<td>-.01 (-.23 to .46)</td>
<td>.02 (-.12 to .2)</td>
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<td>Alaska</td>
<td>Arizona</td>
<td>Arkansas</td>
<td>California</td>
<td>Colorado</td>
<td>Connecticut</td>
<td>Delaware</td>
<td>District of Columbia</td>
</tr>
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<tr>
<td></td>
<td></td>
<td>4,799 (4,416 to 5,212)</td>
<td>4,011 (3,721 to 4,344)</td>
<td>4,045 (3,502 to 4,598)</td>
<td>-16 (-.28 to -.02)</td>
<td>-100 (92 to 109)</td>
<td>69 (64 to 75)</td>
<td>60 (52 to 68)</td>
<td>-4 (-.49 to -.31)</td>
<td>-13 (-.25 to 0)</td>
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<tr>
<td>West Virginia</td>
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<td>996 (803 to 1,315)</td>
<td>1,106 (895 to 1,532)</td>
<td>.36 (.04 to 1.09)</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>
<td>.11 (-.17 to .66)</td>
<td>.05 (-.12 to .23)</td>
</tr>
<tr>
<td>Wisconsin</td>
<td></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>.16 (-.12 to .79)</td>
<td>-.03 (-.18 to .16)</td>
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<td>Wyoming</td>
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<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>-.06 (-.3 to -.38)</td>
<td>.06 (-.12 to .27)</td>
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<td></td>
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<td>.36 (27 to 46)</td>
<td>.11 (-.07 to .3)</td>
<td>39 (27 to 46)</td>
<td>- .11 (-.17 to .66)</td>
<td>40 (34 to 60)</td>
<td>- .16 (-.28 to .44)</td>
<td>47 (39 to 56)</td>
<td>42 (34 to 60)</td>
<td>- .56 (-.63 to -.49)</td>
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<td>Incidence (95% CI)</td>
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<td>Incidence (95% CI)</td>
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<td></td>
</tr>
<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>-1.15 (-.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></td>
</tr>
<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></td>
</tr>
<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 (-1.11 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>
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<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>
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<td>.11 (-.05 to .29)</td>
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<td>65 (59 to 70)</td>
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<td>12,406 (11,506 to 13,353)</td>
<td>9,098 (8,460 to 9,785)</td>
<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>
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<td>6,732 (6,237 to 7,288)</td>
<td>5,498 (5,101 to 5,937)</td>
<td>5,547 (4,828 to 6,341)</td>
<td>-.17 (-.3 to -.05)</td>
<td>.01 (-.14 to .16)</td>
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<td>71 (66 to 77)</td>
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<td>2,520 (2,330 to 2,716)</td>
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<td>93 (86 to 101)</td>
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<td>2,217 (2,044 to 2,389)</td>
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<td>-.03 (-.16 to .12)</td>
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<td>8,731 (8,187 to 9,364)</td>
<td>8,266 (7,511 to 9,143)</td>
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<td>5,930 (5,531 to 6,381)</td>
<td>5,309 (4,768 to 5,921)</td>
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<td>-.1 (-.2 to .01)</td>
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<td>1,419 (1,225 to 1,614)</td>
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<td>105 (98 to 113)</td>
<td>68 (64 to 73)</td>
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Atrial fibrillation and flutter

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<td>5,313 (4,009 to 6,868)</td>
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<td>27,867 (20,719 to 35,905)</td>
<td>3,620 (2,706 to 4,704)</td>
<td>5,629 (4,283 to 7,247)</td>
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<td>781 (590 to 1,026)</td>
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<td>4,078 (3,137 to 5,113)</td>
<td>4,727 (3,678 to 5,941)</td>
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<td>7,676 (5,787 to 9,872)</td>
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<td>Endocarditis</td>
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<td>14,727 (11,102 to 23,411)</td>
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<td>2,601 (1,898 to 3,268)</td>
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<td>1,548 (1,226 to 2,117)</td>
<td>1,688 (1,349 to 2,361)</td>
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<th>CVD Mortality</th>
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<td>3,962 (3,066 to 5,127)</td>
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<td>.26 (.13 to .38)</td>
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© 2018 Global Burden of Cardiovascular Diseases Collaboration. JAMA Cardiology.
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<td>47,026 (26,274 to 57,468)</td>
<td>53,275 (27,763 to 68,942)</td>
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<td>738 (597 to 1,147)</td>
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**Intracerebral Hemorrhage**

<p>| Alabama | 22,664 (21,226 to 24,234) | 30,315 (28,317 to 32,329) | 33,326 (29,597 to 37,421) | .47 (.29 to .67) | .1 (-.03 to .25) | 510 (478 to 546) | 531 (496 to 567) | 513 (456 to 577) | .01 (-.12 to .15) | -.03 (-.15 to .1) |
| Alaska | 1,279 (1,189 to 1,380) | 1,991 (1,848 to 2,148) | 2,382 (2,097 to 2,690) | .86 (.62 to 1.14) | .2 (.05 to .36) | 335 (311 to 364) | 311 (288 to 334) | 301 (266 to 340) | -.1 (-.21 to .03) | -.03 (-.14 to .09) |
| Arizona | 11,835 (10,973 to 12,733) | 19,714 (18,413 to 21,122) | 23,187 (20,848 to 25,585) | .96 (.75 to 1.19) | .18 (.06 to .31) | 297 (276 to 319) | 275 (257 to 294) | 249 (224 to 275) | -.16 (-.25 to -.06) | -.09 (-.18 to 0) |
| Arkansas | 12,551 (11,734 to 13,370) | 15,950 (14,993 to 16,935) | 17,784 (16,149 to 19,637) | .42 (.28 to .57) | .12 (.01 to .22) | 461 (431 to 491) | 458 (430 to 485) | 452 (410 to 498) | -.02 (-.11 to .09) | -.01 (-.11 to .08) |
| California | 106,395 (98,500 to 114,773) | 122,217 (113,875 to 130,687) | 131,266 (117,461 to 145,864) | .24 (.09 to .39) | .07 (.03 to .2) | 361 (335 to 388) | 304 (283 to 325) | 265 (237 to 295) | -.27 (-.35 to -.17) | -.13 (-.22 to -.03) |
| Colorado | 9,064 (8,447 to 9,708) | 13,431 (12,443 to 14,393) | 16,224 (14,731 to 17,864) | .79 (.61 to 1.01) | .21 (.1 to .34) | 279 (260 to 299) | 255 (237 to 274) | 235 (213 to 257) | -.16 (-.24 to -.06) | -.08 (-.16 to .02) |
| Connecticut | 11,166 (10,324 to 11,972) | 10,824 (9,954 to 11,695) | 11,363 (10,010 to 12,774) | .02 (-.1 to .16) | .05 (-.07 to .18) | 292 (271 to 313) | 235 (216 to 255) | 221 (194 to 248) | -.24 (-.33 to -.14) | -.06 (-.17 to .05) |
| Delaware | 2,495 (2,312 to 2,685) | 3,291 (3,067 to 3,538) | 3,880 (3,533 to 4,210) | .56 (.41 to .73) | .18 (.07 to .3) | 345 (320 to 371) | 302 (282 to 324) | 284 (259 to 308) | -.18 (-.25 to -.09) | -.06 (-.15 to .03) |
| District of Columbia | 4,715 (4,139 to 5,674) | 2,813 (2,493 to 3,292) | 2,381 (2,042 to 2,837) | -.49 (-.56 to -.42) | -.15 (-.25 to -.04) | 716 (631 to 863) | 430 (381 to 503) | 314 (269 to 375) | -.56 (-.62 to -.5) | -.27 (-.35 to -.17) |</p>
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<td>.27</td>
<td>.12</td>
<td>498</td>
<td>.12</td>
<td>450</td>
<td>-.09</td>
<td>-.04</td>
<td>-.13</td>
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<td>Maine</td>
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<td>4,830</td>
<td>5,473</td>
<td>.36</td>
<td>.13</td>
<td>283</td>
<td>.19</td>
<td>283</td>
<td>-.09</td>
<td>-.02</td>
<td>-.11</td>
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<td>Maryland</td>
<td>19,073</td>
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<td>22,586</td>
<td>.19</td>
<td>.07</td>
<td>380</td>
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<td>283</td>
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<td>Massachusetts</td>
<td>20,282</td>
<td>19,842</td>
<td>21,801</td>
<td>.08</td>
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<td>293</td>
<td>.09</td>
<td>227</td>
<td>-.23</td>
<td>-.05</td>
<td>-.16</td>
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|---------------|-------------------|-------------------|-------------------|--------------------|--------------------|

© 2018 Global Burden of Cardiovascular Diseases Collaboration. JAMA Cardiology.
| State       | Population
<table>
<thead>
<tr>
<th></th>
<th>(95% CI)</th>
</tr>
</thead>
</table>
| Ohio        | 41,531   
             | (38,927 to 44,214) |
| Oklahoma    | 13,238   
             | (12,367 to 14,052) |
| Oregon      | 10,517   
             | (9,805 to 11,209)  |
| Pennsylvania| 49,683   
             | (46,436 to 52,913) |
| Rhode Island| 3,428    
             | (3,151 to 3,714)   |
| South Carolina| 21,018 
                 | (19,614 to 22,508) |
| South Dakota| 2,377    
             | (2,184 to 2,560)   |
| Tennessee   | 23,890   
             | (22,413 to 25,527) |
| Texas       | 63,820   
             | (59,443 to 68,760) |
| Utah        | 4,093    
             | (3,820 to 4,390)   |
| Vermont     | 1,621    
             | (1,504 to 1,742)   |
| Virginia    | 24,565   
             | (23,079 to 26,199) |
| Washington  | 15,850   
             | (14,783 to 16,941) |

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<table>
<thead>
<tr>
<th>State</th>
<th>Total Deaths (95% CI)</th>
<th>Deaths attributable to CHD (95% CI)</th>
<th>Deaths attributable to CHD (% of total deaths)</th>
<th>Deaths attributable to CHD (% of total CHD deaths)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Virginia</td>
<td>7,854 (7,310 to 8,395)</td>
<td>.31 (.18 to .45)</td>
<td>.13 (.03 to .24)</td>
<td>.362 (337 to 387)</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>16,976 (15,812 to 18,083)</td>
<td>.3 (.19 to .44)</td>
<td>.14 (0.04 to .24)</td>
<td>.309 (288 to 329)</td>
</tr>
<tr>
<td>Wyoming</td>
<td>1,305 (1,207 to 1,405)</td>
<td>.53 (.35 to .73)</td>
<td>.11 (-.01 to .25)</td>
<td>.290 (269 to 313)</td>
</tr>
<tr>
<td>Ischemic heart disease</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>178,117 (169,726 to 186,437)</td>
<td>.07 (-.18 to .04)</td>
<td>.04 (-.08 to .17)</td>
<td>.3778 (3,596 to 3,959)</td>
</tr>
<tr>
<td>Alaska</td>
<td>8,339 (7,859 to 8,854)</td>
<td>.44 (24 to .65)</td>
<td>.23 (-0.06 to .43)</td>
<td>.2936 (2,780 to 3,109)</td>
</tr>
<tr>
<td>Arizona</td>
<td>124,129 (118,866 to 129,460)</td>
<td>.19 (.09 to .31)</td>
<td>.09 (-.01 to .19)</td>
<td>.2990 (2,861 to 3,123)</td>
</tr>
<tr>
<td>Arkansas</td>
<td>114,818 (110,185 to 119,875)</td>
<td>-.05 (-.14 to .04)</td>
<td>.05 (-.04 to .15)</td>
<td>.3817 (3,659 to 3,988)</td>
</tr>
<tr>
<td>California</td>
<td>877,887 (833,450 to 921,783)</td>
<td>-.16 (-.25 to -.06)</td>
<td>0 (-1 to .12)</td>
<td>.2944 (2,840 to 3,147)</td>
</tr>
<tr>
<td>Colorado</td>
<td>83,199 (79,402 to 86,706)</td>
<td>.03 (-.06 to .13)</td>
<td>.11 (.02 to .22)</td>
<td>.2607 (2,480 to 2,715)</td>
</tr>
<tr>
<td>Connecticut</td>
<td>118,689 (112,874 to 124,225)</td>
<td>-.39 (-.45 to -.31)</td>
<td>-.07 (-.17 to .03)</td>
<td>.2920 (2,772 to 3,057)</td>
</tr>
<tr>
<td>Delaware</td>
<td>26,392 (25,300 to 27,630)</td>
<td>-.07 (-.15 to .01)</td>
<td>.03 (-.05 to .11)</td>
<td>3,559 (3,410 to 3,725)</td>
</tr>
<tr>
<td>District of Columbia</td>
<td>25,769 (23,416 to 29,471)</td>
<td>-.39 (-.46 to -.32)</td>
<td>-.18 (-.27 to .08)</td>
<td>3,771 (3,423 to 4,326)</td>
</tr>
</tbody>
</table>

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| State       | Value 1   | Value 2   | Value 3   | Value 4   | Value 5   | Value 6   | Value 7   | Value 8   | Value 9   | Value 10  | Value 11  | Value 12  | Value 13  | Value 14  | Value 15  | Value 16  | Value 17  | Value 18  | Value 19  | Value 20  | Value 21  | Value 22  | Value 23  | Value 24  | Value 25  | Value 26  | Value 27  | Value 28  | Value 29  | Value 30  |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Florida    | 587,490   | 524,421   | 546,526   | -0.07     | -0.04     | 3,049     | 1,899     | 1,565     | -0.49     | -0.18     | -1.58     | -1.48     | -1.31     | -1.44     | -0.48     | -0.14     | -0.24     | -0.36     | -0.49     | -0.55     | -0.61     | -0.69     | -0.77     | -0.85     | -0.93     | -1.01     | -1.09     |
| Georgia    | 235,844   | 222,498   | 249,265   | -0.06     | -0.12     | 3,754     | 2,259     | 1,912     | -0.49     | -1.15     | -1.10     | -1.34     | -1.38     | -0.44     | -0.48     | -0.19     | -0.24     | -0.31     | -0.36     | -0.36     | -0.37     | -0.38     | -0.39     | -0.40     | -0.41     | -0.42     | -0.43     |
| Hawaii     | 26,920    | 26,199    | 28,310    | -0.05     | -0.08     | 2,342     | 1,488     | 1,318     | -0.44     | -0.11     | -0.15     | -0.18     | -0.19     | -0.17     | -0.15     | -0.14     | -0.12     | -0.10     | -0.08     | -0.06     | -0.04     | -0.02     | -0.00     | -0.00     | -0.00     | -0.00     |
| Idaho      | 29,662    | 28,703    | 32,677    | -0.1      | -0.14     | 2,697     | 1,639     | 1,412     | -0.48     | -0.14     | -0.19     | -0.12     | -0.11     | -0.10     | -0.09     | -0.07     | -0.04     | -0.02     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     |
| Illinois   | 475,688   | 329,657   | 309,473   | -0.35     | -0.06     | 3,631     | 2,108     | 1,708     | -0.53     | -0.19     | -0.25     | -0.12     | -0.11     | -0.10     | -0.09     | -0.07     | -0.04     | -0.02     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     |
| Indiana    | 228,397   | 182,839   | 189,237   | -0.17     | 0.04      | 3,570     | 2,305     | 2,043     | -0.43     | -0.11     | -0.21     | -0.09     | -0.07     | -0.06     | -0.05     | -0.04     | -0.03     | -0.02     | -0.01     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     |
| Iowa       | 117,393   | 80,939    | 80,516    | -0.31     | 0.00      | 3,095     | 1,886     | 1,680     | -0.46     | -0.19     | -0.23     | -0.12     | -0.11     | -0.10     | -0.09     | -0.07     | -0.05     | -0.03     | -0.01     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     |
| Kansas     | 92,426    | 69,343    | 69,326    | -0.25     | 0.00      | 3,011     | 1,912     | 1,680     | -0.44     | -0.12     | -0.23     | -0.12     | -0.11     | -0.10     | -0.09     | -0.07     | -0.05     | -0.03     | -0.01     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     | -0.00     |
| Kentucky   | 168,778   | 144,253   | 150,671   | -0.11     | 0.04      | 3,977     | 2,688     | 2,404     | -0.4      | -0.11     | -0.18     | -0.12     | -0.11     | -0.10     | -0.09     | -0.08     | -0.07     | -0.06     | -0.05     | -0.04     | -0.03     | -0.02     | -0.01     | -0.00     | -0.00     | -0.00     |
| Louisiana  | 177,792   | 140,938   | 150,091   | -0.16     | 0.07      | 4,102     | 2,701     | 2,401     | -0.41     | -0.18     | -0.22     | -0.17     | -0.16     | -0.15     | -0.14     | -0.13     | -0.12     | -0.11     | -0.10     | -0.09     | -0.08     | -0.07     | -0.06     | -0.05     | -0.04     | -0.03     |
| Maine      | 48,837    | 32,743    | 32,416    | -0.34     | -0.01     | 3,265     | 1,671     | 1,398     | -0.57     | -0.23     | -0.39     | -0.27     | -0.26     | -0.25     | -0.24     | -0.23     | -0.22     | -0.21     | -0.20     | -0.19     | -0.18     | -0.17     | -0.16     | -0.15     | -0.14     |
| Maryland   | 160,880   | 139,370   | 137,841   | -0.14     | -0.01     | 3,260     | 2,031     | 1,625     | -0.5      | -0.26     | -0.39     | -0.30     | -0.29     | -0.28     | -0.27     | -0.26     | -0.25     | -0.24     | -0.23     | -0.22     | -0.21     | -0.20     | -0.19     | -0.18     | -0.17     |
| Massachusetts | 227,062  | 144,097   | 137,774   | -0.39     | -0.04     | 3,102     | 1,637     | 1,337     | -0.57     | -0.25     | -0.45     | -0.34     | -0.33     | -0.32     | -0.31     | -0.30     | -0.29     | -0.28     | -0.27     | -0.26     | -0.25     | -0.24     | -0.23     | -0.22     | -0.21     | -0.20     | -0.19     |

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<table>
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<tr>
<th>State</th>
<th>Total Deaths</th>
<th>95% UI of Deaths</th>
<th>95% UI of Prevalence</th>
<th>Prevalence</th>
<th>Prevalence</th>
<th>Prevalence</th>
<th>Prevalence</th>
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</thead>
<tbody>
<tr>
<td>Michigan</td>
<td>384,426</td>
<td>(370,127 to 399,443)</td>
<td>-0.19 (-0.25 to -0.13)</td>
<td>0.03 (-0.04 to 0.11)</td>
<td>3.753 (3.613 to 3.900)</td>
<td>2.317 (2.223 to 2.416)</td>
<td>2.071 (1.924 to 2.225)</td>
</tr>
<tr>
<td>Minnesota</td>
<td>135,828</td>
<td>(129,705 to 141,666)</td>
<td>-0.35 (-0.42 to -0.28)</td>
<td>0.03 (-0.06 to 0.14)</td>
<td>2.692 (2.567 to 2.810)</td>
<td>1.285 (1.211 to 1.349)</td>
<td>1.089 (0.970 to 1.206)</td>
</tr>
<tr>
<td>Mississippi</td>
<td>127,162</td>
<td>(121,007 to 134,133)</td>
<td>-0.13 (-0.23 to -0.02)</td>
<td>0.01 (-1.1 to 1.13)</td>
<td>4.450 (4.227 to 4.701)</td>
<td>3.107 (2.946 to 3.308)</td>
<td>2.725 (2.421 to 3.046)</td>
</tr>
<tr>
<td>Missouri</td>
<td>225,935</td>
<td>(217,679 to 234,896)</td>
<td>-0.16 (-0.22 to -0.09)</td>
<td>0.04 (-0.05 to 0.13)</td>
<td>3.524 (3.390 to 3.669)</td>
<td>2.373 (2.275 to 2.469)</td>
<td>2.137 (1.978 to 2.286)</td>
</tr>
<tr>
<td>Montana</td>
<td>25,749</td>
<td>(24,388 to 27,040)</td>
<td>-0.09 (-0.2 to -0.03)</td>
<td>0.04 (-0.08 to 0.17)</td>
<td>2.677 (2.535 to 2.814)</td>
<td>1.683 (1.586 to 1.783)</td>
<td>1.424 (1.255 to 1.599)</td>
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<td>Nebraska</td>
<td>60,287</td>
<td>(57,839 to 62,835)</td>
<td>-0.38 (-0.42 to -0.33)</td>
<td>-0.01 (-0.09 to 0.07)</td>
<td>2.994 (2.868 to 3.123)</td>
<td>1.596 (1.514 to 1.670)</td>
<td>1.372 (1.255 to 1.485)</td>
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<td>Nevada</td>
<td>41,564</td>
<td>(39,098 to 45,002)</td>
<td>0.72 (0.56 to 0.89)</td>
<td>0.15 (0.04 to 0.26)</td>
<td>3.413 (3.214 to 3.677)</td>
<td>2.161 (2.036 to 2.329)</td>
<td>1.771 (1.603 to 1.964)</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>37,536</td>
<td>(36,032 to 39,060)</td>
<td>-0.23 (-0.3 to -0.17)</td>
<td>0.02 (-0.07 to 0.11)</td>
<td>3.175 (3.043 to 3.305)</td>
<td>1.628 (1.547 to 1.712)</td>
<td>1.322 (1.199 to 1.445)</td>
</tr>
<tr>
<td>New Jersey</td>
<td>321,171</td>
<td>(309,084 to 334,159)</td>
<td>-0.35 (-0.41 to -0.29)</td>
<td>-0.04 (-0.12 to 0.04)</td>
<td>3.417 (3.287 to 3.559)</td>
<td>1.877 (1.792 to 1.960)</td>
<td>1.550 (1.426 to 1.684)</td>
</tr>
<tr>
<td>New Mexico</td>
<td>40,589</td>
<td>(38,670 to 42,729)</td>
<td>0.14 (0.0 to 0.28)</td>
<td>0.09 (-0.03 to 0.23)</td>
<td>2.662 (2.534 to 2.804)</td>
<td>1.724 (1.644 to 1.812)</td>
<td>1.520 (1.342 to 1.701)</td>
</tr>
<tr>
<td>New York</td>
<td>845,708</td>
<td>(808,689 to 881,626)</td>
<td>-0.38 (-0.44 to -0.31)</td>
<td>-0.07 (-0.17 to 0.03)</td>
<td>3.916 (3.743 to 4.084)</td>
<td>2.219 (2.117 to 2.327)</td>
<td>1.783 (1.597 to 1.986)</td>
</tr>
<tr>
<td>North Carolina</td>
<td>269,864</td>
<td>(258,737 to 282,086)</td>
<td>-0.08 (-0.15 to 0)</td>
<td>0.08 (0.0 to 0.17)</td>
<td>3.647 (3.494 to 3.813)</td>
<td>2.090 (1.995 to 2.186)</td>
<td>1.745 (1.623 to 1.881)</td>
</tr>
<tr>
<td>North Dakota</td>
<td>23,683</td>
<td>(22,452 to 24,830)</td>
<td>-0.33 (-0.4 to -0.24)</td>
<td>0 (-0.11 to 0.11)</td>
<td>2.934 (2.769 to 3.088)</td>
<td>1.717 (1.618 to 1.804)</td>
<td>1.524 (1.354 to 1.708)</td>
</tr>
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</table>

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<table>
<thead>
<tr>
<th>State</th>
<th>Mean (95% CI)</th>
<th>Number of Deaths</th>
<th>Mean (95% CI)</th>
<th>Number of Deaths</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>
<td>-0.28 (-0.34 to -0.23)</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>149,288 (144,208 to 154,813)</td>
<td>135,785 (129,840 to 141,399)</td>
<td>141,349 (131,851 to 151,291)</td>
<td>-0.05 (-0.12 to -0.02)</td>
</tr>
<tr>
<td>Oregon</td>
<td>101,173 (97,027 to 105,183)</td>
<td>75,072 (71,204 to 78,429)</td>
<td>75,215 (69,441 to 80,684)</td>
<td>-0.26 (-0.32 to -0.19)</td>
</tr>
<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>
<td>-0.37 (-0.42 to -0.32)</td>
</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>-0.39 (-0.46 to -0.32)</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 (-0.11 to 0.12)</td>
</tr>
<tr>
<td>South Dakota</td>
<td>27,883 (26,448 to 29,245)</td>
<td>20,275 (19,101 to 21,392)</td>
<td>20,846 (18,734 to 23,058)</td>
<td>-0.25 (-0.33 to -0.17)</td>
</tr>
<tr>
<td>Tennessee</td>
<td>223,098 (214,471 to 232,238)</td>
<td>204,634 (196,152 to 214,869)</td>
<td>224,821 (207,122 to 240,756)</td>
<td>-0.01 (-0.07 to 0.09)</td>
</tr>
<tr>
<td>Texas</td>
<td>556,778 (533,401 to 584,304)</td>
<td>530,870 (508,128 to 555,611)</td>
<td>601,120 (550,131 to 645,417)</td>
<td>-0.08 (-0.02 to 0.18)</td>
</tr>
<tr>
<td>Utah</td>
<td>35,458 (34,027 to 37,165)</td>
<td>34,305 (32,714 to 36,084)</td>
<td>40,333 (37,404 to 43,549)</td>
<td>-0.14 (-0.05 to 0.24)</td>
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<tr>
<td>Vermont</td>
<td>18,928 (18,135 to 19,776)</td>
<td>13,211 (12,579 to 13,843)</td>
<td>13,601 (12,507 to 14,759)</td>
<td>0.28 (-0.34 to -0.22)</td>
</tr>
<tr>
<td>Virginia</td>
<td>212,763 (205,179 to 221,519)</td>
<td>177,391 (170,168 to 184,515)</td>
<td>182,416 (169,337 to 196,993)</td>
<td>-0.14 (-0.21 to -0.07)</td>
</tr>
<tr>
<td>Washington</td>
<td>145,587 (140,049 to 151,748)</td>
<td>121,015 (115,770 to 125,984)</td>
<td>126,659 (117,008 to 136,558)</td>
<td>-0.13 (-0.2 to -0.05)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Ischemic stroke</th>
<th>Alabama</th>
<th>Alaska</th>
<th>Arizona</th>
<th>Arkansas</th>
<th>California</th>
<th>Colorado</th>
<th>Connecticut</th>
<th>Delaware</th>
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<tbody>
<tr>
<td></td>
<td>30,848</td>
<td>1,304</td>
<td>18,595</td>
<td>21,520</td>
<td>152,209</td>
<td>13,882</td>
<td>16,904</td>
<td>3,442</td>
<td>4,079</td>
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<tr>
<td></td>
<td>(27,801 to 34,170)</td>
<td>(1,154 to 1,452)</td>
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<td>(19,284 to 23,723)</td>
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**Other cardiomyopathy**

| Alabama | 8,193 (6,217 to 9,255) | 8,531 (7,625 to 10,243) | 8,799 (7,464 to 11,697) | .09 (-.14 to .63) | .03 (-.11 to .23) | 185 (140 to 208) | 159 (143 to 190) | 148 (125 to 194) | -.19 (-.36 to .2) | -.07 (-.2 to .09) |
| Alaska | 565 (504 to 660) | 693 (585 to 955) | 822 (651 to 1,222) | .45 (.14 to .99) | .18 (.01 to .39) | 138 (123 to 160) | 108 (92 to 146) | 106 (84 to 155) | -.24 (-.4 to .05) | -.03 (-.17 to .15) |
| Arizona | 6,188 (4,667 to 6,935) | 7,714 (6,810 to 9,753) | 8,746 (7,374 to 11,721) | .44 (.1 to 1.18) | .13 (.01 to .3) | 157 (118 to 176) | 114 (101 to 143) | 104 (88 to 137) | -.32 (-.48 to .01) | -.09 (-.2 to .04) |
| Arkansas | 3,891 (3,453 to 4,379) | 4,525 (4,019 to 5,862) | 4,733 (3,923 to 6,925) | .22 (-.01 to .72) | .04 (-.09 to .25) | 144 (128 to 162) | 137 (121 to 177) | 130 (108 to 190) | -.1 (-.27 to .26) | -.06 (-.18 to .13) |
| California | 59,360 (37,616 to 69,634) | 53,219 (43,401 to 58,715) | 54,330 (46,662 to 63,391) | -.05 (-.27 to .4) | .02 (-.12 to .19) | 198 (125 to 233) | 135 (111 to 149) | 117 (99 to 136) | -.39 (-.53 to -.11) | -.13 (-.25 to 0) |
| Colorado | 3,617 (3,253 to 4,343) | 4,536 (3,862 to 6,468) | 5,339 (4,302 to 8,220) | .47 (.19 to 1.02) | .17 (.03 to .35) | 112 (101 to 133) | 88 (75 to 126) | 81 (65 to 125) | -.28 (-.42 to 0) | -.09 (-.19 to .05) |
| Connecticut | 6,013 (4,334 to 6,781) | 5,009 (4,377 to 5,757) | 4,980 (4,281 to 6,162) | -.16 (-.33 to .17) | -.01 (-.14 to .16) | 160 (115 to 181) | 115 (102 to 133) | 105 (90 to 129) | -.33 (-.47 to -.09) | -.09 (-.21 to .05) |
| Delaware | 1,355 (980 to 1,540) | 1,602 (1,325 to 1,773) | 1,767 (1,553 to 1,996) | .32 (.11 to .71) | .11 (-.03 to .26) | 189 (137 to 214) | 155 (129 to 172) | 142 (126 to 161) | -.24 (-.36 to -.01) | -.08 (-.19 to .04) |
| District of Columbia | 2,400 (1,325 to 3,083) | 1,260 (1,054 to 1,576) | 1,158 (974 to 1,482) | -.49 (-.64 to -.13) | -.08 (-.22 to .09) | 358 (196 to 460) | 196 (164 to 245) | 155 (131 to 197) | -.54 (-.67 to -.22) | -.21 (-.33 to -.06) |

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<tr>
<th>State</th>
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<th>Female Death Rate Change (FDRC)</th>
<th>Male Mortality Rate (MMR)</th>
<th>Female Mortality Rate (FMR)</th>
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<th>Male Risk Factor Rate (MRF)</th>
<th>Female Risk Factor Rate (FFR)</th>
<th>Male Risk Factor Rate Change (MRFRC)</th>
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<td>Michigan</td>
<td>25,535 (22,802 to 29,048)</td>
<td>27,589 (24,482 to 31,180)</td>
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<td>.14 (.07 to .22)</td>
<td>253 (225 to 289)</td>
<td>225 (199 to 254)</td>
<td>.09 (-.17 to -.01)</td>
<td>.02 (-.05 to .09)</td>
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<tr>
<td>Minnesota</td>
<td>11,808 (10,443 to 13,511)</td>
<td>12,368 (10,908 to 14,121)</td>
<td>.22 (.11 to .34)</td>
<td>.17 (.08 to .26)</td>
<td>239 (211 to 274)</td>
<td>193 (170 to 222)</td>
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<td>Mississippi</td>
<td>8,798 (7,989 to 9,827)</td>
<td>9,957 (8,942 to 11,162)</td>
<td>11,002 (9,606 to 12,495)</td>
<td>.25 (.1 to .4)</td>
<td>313 (284 to 349)</td>
<td>298 (267 to 332)</td>
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<td>Missouri</td>
<td>16,736 (14,826 to 19,016)</td>
<td>18,391 (16,409 to 20,754)</td>
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<td>.14 (.06 to .22)</td>
<td>272 (241 to 309)</td>
<td>252 (226 to 285)</td>
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<td>0 (-.07 to .08)</td>
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<td>Montana</td>
<td>2,558 (2,240 to 2,912)</td>
<td>2,920 (2,577 to 3,305)</td>
<td>3,408 (2,939 to 3,931)</td>
<td>.33 (.2 to .47)</td>
<td>277 (242 to 316)</td>
<td>233 (206 to 264)</td>
<td>.18 (-.26 to -.1)</td>
<td>.03 (-.11 to .07)</td>
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<td>Nebraska</td>
<td>5,411 (4,773 to 6,191)</td>
<td>5,273 (4,645 to 5,989)</td>
<td>5,966 (5,199 to 6,876)</td>
<td>.1 (.01 to .2)</td>
<td>286 (251 to 328)</td>
<td>236 (207 to 268)</td>
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<td>Nevada</td>
<td>3,441 (3,065 to 3,870)</td>
<td>6,593 (5,914 to 7,366)</td>
<td>8,138 (7,168 to 9,287)</td>
<td>1.37 (1.16 to 1.6)</td>
<td>279 (249 to 313)</td>
<td>234 (210 to 261)</td>
<td>.23 (-.3 to -.15)</td>
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<td>New Hampshire</td>
<td>3,278 (2,890 to 3,798)</td>
<td>3,493 (3,080 to 3,973)</td>
<td>4,021 (3,540 to 4,632)</td>
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<td>.04 (-.11 to .04)</td>
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<td>New Jersey</td>
<td>28,051 (24,849 to 32,000)</td>
<td>27,711 (24,332 to 31,698)</td>
<td>28,927 (25,030 to 33,274)</td>
<td>.03 (-.05 to .12)</td>
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<tr>
<td>New Mexico</td>
<td>3,597 (3,164 to 4,154)</td>
<td>4,775 (4,191 to 5,458)</td>
<td>5,586 (4,816 to 6,463)</td>
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<td>205 (180 to 235)</td>
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<td>New York</td>
<td>53,446 (47,453 to 60,911)</td>
<td>47,925 (41,405 to 55,655)</td>
<td>52,280 (44,753 to 61,336)</td>
<td>-.02 (-.12 to .08)</td>
<td>258 (228 to 295)</td>
<td>202 (175 to 236)</td>
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<td>.02 (-.1 to .06)</td>
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<td>North Carolina</td>
<td>21,530 (19,361 to 24,217)</td>
<td>25,928 (23,282 to 28,954)</td>
<td>31,121 (27,769 to 34,838)</td>
<td>.45 (.33 to .57)</td>
<td>294 (264 to 330)</td>
<td>244 (219 to 272)</td>
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<td>.04 (-.11 to .03)</td>
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<tr>
<td>North Dakota</td>
<td>1,824 (1,586 to 2,127)</td>
<td>1,662 (1,461 to 1,898)</td>
<td>1,867 (1,601 to 2,163)</td>
<td>.02 (-.06 to .13)</td>
<td>238 (207 to 278)</td>
<td>192 (168 to 221)</td>
<td>-.2 (-.27 to -.12)</td>
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<th>State</th>
<th>Total Deaths (95% CI)</th>
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<td>33,952 (30,256 to 38,328)</td>
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<td>Oklahoma</td>
<td>9,461 (8,408 to 10,712)</td>
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<td>-12 (-15 to -.01)</td>
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<td>Oregon</td>
<td>9,267 (8,113 to 10,710)</td>
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<td>3,079 (2,690 to 3,567)</td>
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<td>South Carolina</td>
<td>11,856 (10,596 to 13,345)</td>
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<td>South Dakota</td>
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<td>14,672 (12,987 to 16,424)</td>
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<td>4,037 (3,487 to 4,694)</td>
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<td>Vermont</td>
<td>1,851 (1,635 to 2,116)</td>
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<td>19,206 (17,159 to 21,837)</td>
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<td>Washington</td>
<td>14,062 (12,290 to 16,266)</td>
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<thead>
<tr>
<th>State</th>
<th>Total Cases (95% CI)</th>
<th>Cardiovascular Disease Cases (95% CI)</th>
<th>Peripheral artery disease cases (95% CI)</th>
<th>Change in cases (95% CI)</th>
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<tbody>
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<td>West Virginia</td>
<td>6,595 (5,884 to 7,452)</td>
<td>6,640 (5,907 to 7,541)</td>
<td>7,289 (6,469 to 8,275)</td>
<td>.11 (.02 to .21)</td>
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<tr>
<td>Wisconsin</td>
<td>14,899 (13,122 to 16,873)</td>
<td>15,468 (13,826 to 17,312)</td>
<td>17,604 (15,690 to 19,694)</td>
<td>.14 (.06 to .22)</td>
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<tr>
<td>Wyoming</td>
<td>1,380 (1,215 to 1,582)</td>
<td>1,700 (1,502 to 1,919)</td>
<td>1,986 (1,720 to 2,293)</td>
<td>.44 (.31 to .59)</td>
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<tr>
<td>Peripheral artery disease</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>.84 (.42 to 1.2)</td>
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<tr>
<td>Alabama</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>1.78 (1.3 to 2.3)</td>
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<td>Alaska</td>
<td>971 (683 to 1,305)</td>
<td>1,392 (988 to 2,053)</td>
<td>1,698 (1,223 to 2,080)</td>
<td>0.76 (.38 to 1.2)</td>
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<tr>
<td>Arizona</td>
<td>8,060 (5,940 to 11,181)</td>
<td>11,571 (8,784 to 17,178)</td>
<td>14,824 (10,693 to 23,537)</td>
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<td>Arkansas</td>
<td>815 (601 to 1,151)</td>
<td>1,341 (1,030 to 1,957)</td>
<td>1,916 (1,415 to 2,977)</td>
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<td>California</td>
<td>272 (188 to 368)</td>
<td>429 (316 to 596)</td>
<td>575 (431 to 831)</td>
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<td>Connecticut</td>
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<td>District of Columbia</td>
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<table>
<thead>
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<th>State</th>
<th>Maximum Cases</th>
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<td>Florida</td>
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<td>Georgia</td>
<td>2,191 (1,419 to 2,881)</td>
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<td>Hawaii</td>
<td>278 (206 to 397)</td>
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<tr>
<td>Idaho</td>
<td>299 (211 to 401)</td>
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<tr>
<td>Illinois</td>
<td>4,276 (3,025 to 5,777)</td>
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<tr>
<td>Indiana</td>
<td>2,146 (1,511 to 2,897)</td>
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<tr>
<td>Iowa</td>
<td>1,118 (832 to 1,532)</td>
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<tr>
<td>Kansas</td>
<td>900 (669 to 1,228)</td>
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<tr>
<td>Kentucky</td>
<td>1,412 (982 to 1,888)</td>
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<tr>
<td>Louisiana</td>
<td>1,541 (1,005 to 2,025)</td>
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<tr>
<td>Maine</td>
<td>493 (332 to 649)</td>
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<td>Maryland</td>
<td>1,811 (1,259 to 2,487)</td>
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<tr>
<td>Massachusetts</td>
<td>2,277 (1,501 to 3,021)</td>
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<td>Minimum Cases</td>
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<td>9,551 (7,252 to 13,135)</td>
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<td>Georgia</td>
<td>3,614 (2,587 to 5,082)</td>
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<tr>
<td>Hawaii</td>
<td>438 (324 to 681)</td>
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<td>Idaho</td>
<td>484 (365 to 703)</td>
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<tr>
<td>Illinois</td>
<td>5,413 (4,021 to 7,820)</td>
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<tr>
<td>Indiana</td>
<td>2,994 (2,201 to 4,319)</td>
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<tr>
<td>Iowa</td>
<td>1,339 (992 to 2,006)</td>
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<tr>
<td>Kansas</td>
<td>1,138 (867 to 1,701)</td>
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<td>Kentucky</td>
<td>2,163 (1,519 to 3,167)</td>
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<tr>
<td>Louisiana</td>
<td>2,102 (1,464 to 3,060)</td>
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<td>Maine</td>
<td>673 (495 to 903)</td>
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<td>Maryland</td>
<td>2,509 (1,893 to 3,565)</td>
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<tr>
<td>Massachusetts</td>
<td>2,749 (2,043 to 3,761)</td>
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<table>
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<th>2015 (95% CI)</th>
<th>2014 (95% CI)</th>
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<tr>
<td>Michigan</td>
<td>3,244 (2,417 to 4,457)</td>
<td>4,683 (3,492 to 7,227)</td>
<td>5,602 (4,158 to 8,896)</td>
<td>.73 (.41 to 1.55)</td>
<td>.19 (.06 to .31)</td>
<td>.81 (23 to 43)</td>
<td>.36 (26 to 56)</td>
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<tr>
<td>Minnesota</td>
<td>1,504 (1,041 to 1,974)</td>
<td>1,864 (1,376 to 2,615)</td>
<td>2,341 (1,749 to 3,507)</td>
<td>.57 (.26 to 1.28)</td>
<td>.25 (.08 to .42)</td>
<td>.28 (20 to 37)</td>
<td>.27 (20 to 38)</td>
</tr>
<tr>
<td>Mississippi</td>
<td>901 (673 to 1,234)</td>
<td>1,244 (874 to 2,469)</td>
<td>1,568 (1,068 to 3,162)</td>
<td>.73 (.3 to 2.02)</td>
<td>.26 (.1 to .44)</td>
<td>.30 (22 to 41)</td>
<td>.35 (24 to 68)</td>
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<tr>
<td>Missouri</td>
<td>2,087 (1,474 to 2,800)</td>
<td>2,847 (2,089 to 4,157)</td>
<td>3,466 (2,560 to 5,311)</td>
<td>.67 (.36 to 1.58)</td>
<td>.22 (.08 to .35)</td>
<td>.31 (22 to 41)</td>
<td>.36 (26 to 52)</td>
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<tr>
<td>Montana</td>
<td>290 (197 to 379)</td>
<td>421 (319 to 567)</td>
<td>544 (404 to 767)</td>
<td>.9 (.51 to 1.81)</td>
<td>.29 (.12 to .48)</td>
<td>.29 (20 to 38)</td>
<td>.30 (23 to 41)</td>
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<tr>
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<td>584 (430 to 798)</td>
<td>718 (540 to 1,081)</td>
<td>868 (650 to 1,360)</td>
<td>.49 (.21 to 1.24)</td>
<td>.2 (.06 to .34)</td>
<td>.27 (20 to 37)</td>
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<td>390 (289 to 530)</td>
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<td>1,426 (1,069 to 2,106)</td>
<td>.26 (2.03 to 3.97)</td>
<td>.41 (.23 to .6)</td>
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<td>557 (427 to 789)</td>
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<td>.29 (.13 to .44)</td>
<td>.31 (22 to 42)</td>
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<td>3,922 (2,980 to 5,517)</td>
<td>4,553 (3,388 to 6,743)</td>
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<td>.16 (.02 to .3)</td>
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<td>730 (558 to 1,034)</td>
<td>975 (735 to 1,442)</td>
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<td>.27 (19 to 36)</td>
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<td>7,210 (5,143 to 11,425)</td>
<td>8,382 (5,743 to 14,081)</td>
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<td>.16 (.03 to .31)</td>
<td>.29 (21 to 41)</td>
<td>.28 (20 to 44)</td>
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<tr>
<td>North Carolina</td>
<td>2,424 (1,617 to 3,215)</td>
<td>3,923 (2,750 to 5,506)</td>
<td>5,198 (3,834 to 7,606)</td>
<td>1.17 (.74 to 2.35)</td>
<td>.33 (.16 to .49)</td>
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<td>.35 (25 to 49)</td>
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<td>North Dakota</td>
<td>232 (168 to 311)</td>
<td>274 (202 to 410)</td>
<td>325 (236 to 513)</td>
<td>.41 (.11 to 1.17)</td>
<td>.18 (.02 to .34)</td>
<td>.27 (19 to 36)</td>
<td>.28 (20 to 42)</td>
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<thead>
<tr>
<th>State</th>
<th>Ohio Death Rate (95% CI)</th>
<th>Dakota Death Rate (95% CI)</th>
<th>Texas Death Rate (95% CI)</th>
<th>Utah Death Rate (95% CI)</th>
<th>Virginia Death Rate (95% CI)</th>
<th>Washington Death Rate (95% CI)</th>
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<td>Ohio</td>
<td>4,374 (3,029 to 5,823)</td>
<td>6,150 (4,290 to 8,621)</td>
<td>7,045 (5,136 to 10,302)</td>
<td>.63 (.33 to 1.45)</td>
<td>.14 (0 to .28)</td>
<td>33 (23 to 44)</td>
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<td>1,667 (1,216 to 2,758)</td>
<td>2,027 (1,414 to 3,626)</td>
<td>.8 (.43 to 2.14)</td>
<td>.2 (.05 to .4)</td>
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<td>1,551 (1,169 to 2,191)</td>
<td>2,003 (1,500 to 2,904)</td>
<td>.87 (.53 to 1.7)</td>
<td>.29 (.15 to .43)</td>
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<td>5,670 (3,958 to 7,486)</td>
<td>6,884 (5,066 to 9,841)</td>
<td>7,988 (5,946 to 11,557)</td>
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<td>.16 (.04 to .27)</td>
<td>34 (24 to 45)</td>
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<td>426 (303 to 587)</td>
<td>507 (387 to 719)</td>
<td>578 (422 to 892)</td>
<td>.37 (.09 to 1.01)</td>
<td>.14 (-.02 to .3)</td>
<td>31 (22 to 42)</td>
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<td>South Carolina</td>
<td>1,347 (837 to 1,773)</td>
<td>2,239 (1,490 to 3,010)</td>
<td>3,091 (2,143 to 4,423)</td>
<td>1.34 (.86 to 2.77)</td>
<td>.38 (.19 to .58)</td>
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<td>267 (184 to 350)</td>
<td>340 (246 to 481)</td>
<td>427 (314 to 642)</td>
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<td>.25 (.1 to .42)</td>
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<td>Tennessee</td>
<td>1,893 (1,236 to 2,493)</td>
<td>3,014 (2,100 to 4,302)</td>
<td>3,967 (2,822 to 5,913)</td>
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<td>.32 (.15 to .47)</td>
<td>32 (21 to 42)</td>
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<td>Texas</td>
<td>4,981 (3,472 to 6,650)</td>
<td>8,660 (6,009 to 11,914)</td>
<td>11,910 (8,672 to 17,452)</td>
<td>1.41 (.97 to 2.71)</td>
<td>.37 (.2 to .56)</td>
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<td>Utah</td>
<td>351 (253 to 480)</td>
<td>587 (446 to 859)</td>
<td>819 (604 to 1,257)</td>
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<td>.39 (.22 to .58)</td>
<td>25 (18 to 34)</td>
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<td>Vermont</td>
<td>205 (134 to 271)</td>
<td>275 (209 to 374)</td>
<td>342 (265 to 488)</td>
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<td>.25 (.08 to .4)</td>
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<td>Virginia</td>
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<td>3,845 (2,926 to 5,928)</td>
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<td>.27 (.12 to .44)</td>
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<td>1,512 (1,105 to 2,068)</td>
<td>2,332 (1,794 to 3,436)</td>
<td>3,064 (2,310 to 4,725)</td>
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<td>West Virginia</td>
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<td>Alabama</td>
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<td>2,463 (2,280 to 2,640)</td>
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<td>2,100 (1,975 to 2,234)</td>
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<td>Colorado</td>
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<td>2,636 (2,260 to 2,881)</td>
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<td>Delaware</td>
<td>538 (494 to 580)</td>
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<td>District of Columbia</td>
<td>642 (550 to 786)</td>
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<td>10,075 (9,322 to 10,926)</td>
<td>7,968 (7,423 to 8,554)</td>
<td>9,112 (8,233 to 10,044)</td>
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<td>0.14 (.01 to 0.28)</td>
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<td>5,152 (4,776 to 5,623)</td>
<td>6,325 (5,627 to 7,103)</td>
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<td>702 (660 to 751)</td>
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<td>911 (846 to 975)</td>
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<td>0.26 (0.1 to 0.43)</td>
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<td>Louisiana</td>
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<tr>
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<td>846 (760 to 932)</td>
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<td>.16 (.03 to .31)</td>
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<td>-.48 (-.54 to -.41)</td>
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<td>.18 (.06 to .31)</td>
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<td>38 (35 to 40)</td>
<td>36 (32 to 41)</td>
<td>-.43 (-.5 to -.36)</td>
<td>-.03 (-.13 to .08)</td>
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<td>New Jersey</td>
<td>7,250 (6,734 to 7,800)</td>
<td>4,373 (4,103 to 4,647)</td>
<td>4,420 (3,983 to 4,887)</td>
<td>-.39 (-.46 to -.31)</td>
<td>.01 (-.09 to .13)</td>
<td>79 (73 to 85)</td>
<td>40 (37 to 42)</td>
<td>35 (32 to 39)</td>
<td>-.55 (-.61 to -.49)</td>
<td>-.11 (-.2 to -.01)</td>
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<td>1,312 (1,217 to 1,418)</td>
<td>1,233 (1,158 to 1,319)</td>
<td>1,409 (1,249 to 1,592)</td>
<td>.08 (-.07 to .24)</td>
<td>.14 (0 to .31)</td>
<td>86 (79 to 93)</td>
<td>53 (49 to 56)</td>
<td>51 (45 to 57)</td>
<td>-.41 (-.49 to -.32)</td>
<td>-.04 (-.16 to .1)</td>
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<td>14,535 (13,475 to 15,641)</td>
<td>7,787 (7,326 to 8,295)</td>
<td>7,908 (7,038 to 8,856)</td>
<td>-.46 (-.53 to -.37)</td>
<td>.02 (-.1 to .14)</td>
<td>70 (65 to 75)</td>
<td>32 (30 to 34)</td>
<td>29 (26 to 33)</td>
<td>-.58 (-.64 to -.52)</td>
<td>-.1 (-.2 to .02)</td>
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<td>4,817 (4,460 to 5,181)</td>
<td>4,530 (4,267 to 4,799)</td>
<td>5,352 (4,918 to 5,815)</td>
<td>.11 (-.01 to .24)</td>
<td>.18 (.08 to .3)</td>
<td>66 (61 to 71)</td>
<td>42 (40 to 45)</td>
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<td>-.41 (-.47 to -.34)</td>
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<tr>
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<td>452 (421 to 486)</td>
<td>344 (321 to 367)</td>
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<td>.11 (-.02 to .24)</td>
<td>59 (55 to 64)</td>
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<td>-.35 (-.43 to -.26)</td>
<td>-.02 (-.14 to .1)</td>
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<tr>
<th>State</th>
<th>≥18 (%)</th>
<th>≥50 (%)</th>
<th>≥70 (%)</th>
<th>≥85 (%)</th>
<th>≥90 (%)</th>
<th>≥95 (%)</th>
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<td>Ohio</td>
<td>9,130 (8,498 to 9,729)</td>
<td>6,289 (5,926 to 6,705)</td>
<td>6,725 (6,185 to 7,300)</td>
<td>-0.26 (-0.34 to -0.18)</td>
<td>0.07 (-0.03 to 0.18)</td>
<td>73 (68 to 78)</td>
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<td>Oklahoma</td>
<td>2,403 (2,262 to 2,558)</td>
<td>2,367 (2,226 to 2,518)</td>
<td>2,631 (2,415 to 2,857)</td>
<td>0.1 (-0.01 to 0.21)</td>
<td>0.11 (0.02 to 0.22)</td>
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<td>2,403 (2,250 to 2,569)</td>
<td>2,148 (2,015 to 2,289)</td>
<td>2,421 (2,184 to 2,652)</td>
<td>0.01 (-1.1 to 0.13)</td>
<td>0.13 (0.02 to 0.24)</td>
<td>71 (66 to 76)</td>
</tr>
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<td>Pennsylvania</td>
<td>12,911 (12,093 to 13,750)</td>
<td>7,930 (7,488 to 8,377)</td>
<td>8,036 (7,405 to 8,736)</td>
<td>-0.38 (-0.44 to -0.31)</td>
<td>0.01 (-0.07 to 0.1)</td>
<td>85 (80 to 91)</td>
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<tr>
<td>Rhode Island</td>
<td>693 (641 to 746)</td>
<td>487 (449 to 525)</td>
<td>486 (424 to 556)</td>
<td>-0.3 (-0.39 to -0.19)</td>
<td>0 (-0.12 to 0.14)</td>
<td>56 (52 to 60)</td>
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<td>South Carolina</td>
<td>2,739 (2,524 to 2,970)</td>
<td>2,788 (2,605 to 2,988)</td>
<td>3,359 (3,031 to 3,755)</td>
<td>0.23 (0.06 to 0.42)</td>
<td>0.21 (0.06 to 0.37)</td>
<td>75 (69 to 81)</td>
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<td>South Dakota</td>
<td>524 (487 to 561)</td>
<td>419 (389 to 449)</td>
<td>484 (426 to 545)</td>
<td>-0.08 (-0.2 to 0.06)</td>
<td>0.16 (0.02 to 0.3)</td>
<td>62 (58 to 67)</td>
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<td>Tennessee</td>
<td>3,420 (3,190 to 3,655)</td>
<td>3,048 (2,844 to 3,241)</td>
<td>3,615 (3,286 to 3,898)</td>
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<td>0.19 (0.07 to 0.3)</td>
<td>62 (58 to 66)</td>
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<td>10,445 (9,741 to 11,205)</td>
<td>10,119 (9,521 to 10,773)</td>
<td>12,481 (11,455 to 13,649)</td>
<td>0.2 (0.07 to 0.34)</td>
<td>0.23 (0.11 to 0.36)</td>
<td>63 (59 to 68)</td>
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<td>Utah</td>
<td>1,720 (1,603 to 1,846)</td>
<td>1,699 (1,597 to 1,815)</td>
<td>2,109 (1,927 to 2,314)</td>
<td>0.23 (0.1 to 0.36)</td>
<td>0.24 (0.12 to 0.37)</td>
<td>118 (110 to 126)</td>
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<td>Vermont</td>
<td>418 (387 to 447)</td>
<td>324 (302 to 346)</td>
<td>359 (324 to 394)</td>
<td>-0.14 (-0.24 to -0.04)</td>
<td>0.11 (-0.01 to 0.23)</td>
<td>68 (63 to 73)</td>
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<tr>
<td>Virginia</td>
<td>4,117 (3,873 to 4,411)</td>
<td>3,734 (3,525 to 3,944)</td>
<td>4,161 (3,776 to 4,570)</td>
<td>0.01 (-0.14 to 0.14)</td>
<td>0.12 (0.01 to 0.23)</td>
<td>65 (61 to 69)</td>
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<td>Washington</td>
<td>3,504 (3,269 to 3,748)</td>
<td>2,812 (2,652 to 2,987)</td>
<td>3,252 (2,966 to 3,565)</td>
<td>-0.07 (-0.17 to 0.05)</td>
<td>0.16 (0.04 to 0.28)</td>
<td>67 (62 to 71)</td>
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<th>Cases 3</th>
<th>Cases 4</th>
<th>Cases 5</th>
<th>Cases 6</th>
<th>Cases 7</th>
<th>Cases 8</th>
<th>Cases 9</th>
<th>Cases 10</th>
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<tbody>
<tr>
<td>West Virginia</td>
<td>1,763 (1,648 to 1,886)</td>
<td>1,402 (1,311 to 1,498)</td>
<td>1,521 (1,376 to 1,670)</td>
<td>-.14 (-.24 to -.03)</td>
<td>.09 (-.02 to .2)</td>
<td>78 (73 to 84)</td>
<td>56 (52 to 60)</td>
<td>57 (51 to 62)</td>
<td>-.28 (-.36 to -.19)</td>
<td>.01 (-.08 to .12)</td>
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<tr>
<td>Wisconsin</td>
<td>3,502 (3,285 to 3,722)</td>
<td>2,915 (2,747 to 3,085)</td>
<td>3,208 (2,935 to 3,487)</td>
<td>-.08 (-.17 to .02)</td>
<td>.1 (.01 to .21)</td>
<td>61 (58 to 65)</td>
<td>40 (38 to 43)</td>
<td>38 (35 to 42)</td>
<td>-.37 (-.43 to -.3)</td>
<td>-.04 (-.13 to .05)</td>
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<tr>
<td>Wyoming</td>
<td>418 (387 to 449)</td>
<td>421 (393 to 451)</td>
<td>463 (406 to 527)</td>
<td>.11 (-.04 to .28)</td>
<td>.1 (-.04 to .26)</td>
<td>93 (86 to 100)</td>
<td>66 (62 to 71)</td>
<td>60 (53 to 69)</td>
<td>-.35 (-.44 to -.25)</td>
<td>-.09 (-.21 to .04)</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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<td>1001 (947 to 1060)</td>
<td>1226 (1163 to 1288)</td>
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<td>Alaska</td>
<td>688 (608 to 783)</td>
<td>894 (792 to 1006)</td>
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<tr>
<td>Arizona</td>
<td>802 (757 to 854)</td>
<td>994 (947 to 1045)</td>
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<td>Arkansas</td>
<td>951 (873 to 1031)</td>
<td>1152 (1090 to 1215)</td>
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<td>California</td>
<td>826 (795 to 852)</td>
<td>1063 (1027 to 1097)</td>
</tr>
<tr>
<td>Colorado</td>
<td>896 (843 to 950)</td>
<td>1052 (997 to 1106)</td>
</tr>
<tr>
<td>Connecticut</td>
<td>896 (854 to 940)</td>
<td>1180 (1136 to 1224)</td>
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<tr>
<td>Delaware</td>
<td>854 (803 to 912)</td>
<td>1074 (1014 to 1140)</td>
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<tr>
<td>District of Columbia</td>
<td>868 (768 to 984)</td>
<td>1001 (881 to 1124)</td>
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<tr>
<td>Florida</td>
<td>921 (892 to 972)</td>
<td>1156 (1128 to 1190)</td>
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<tr>
<td>Georgia</td>
<td>914 (882 to 944)</td>
<td>1107 (1063 to 1160)</td>
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<td>Hawaii</td>
<td>769 (697 to 853)</td>
<td>1164 (1071 to 1262)</td>
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<td>Idaho</td>
<td>848 (792 to 907)</td>
<td>1013 (949 to 1082)</td>
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<tr>
<td>Illinois</td>
<td>887 (845 to 928)</td>
<td>1101 (1052 to 1156)</td>
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<td>Indiana</td>
<td>1183 (1129 to 1230)</td>
<td>1458 (1402 to 1504)</td>
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<td>Iowa</td>
<td>695 (642 to 778)</td>
<td>907 (837 to 1003)</td>
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<td>849 (795 to 910)</td>
<td>980 (905 to 1061)</td>
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<td>1183 (1121 to 1237)</td>
<td>1384 (1318 to 1451)</td>
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<td>Louisiana</td>
<td>998 (930 to 1066)</td>
<td>1203 (1134 to 1268)</td>
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<td>Maine</td>
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<td>1005 (954 to 1055)</td>
<td>1242 (1179 to 1309)</td>
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<td>1182 (1130 to 1221)</td>
<td>1398 (1359 to 1427)</td>
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<td>Minnesota</td>
<td>672 (615 to 741)</td>
<td>854 (785 to 922)</td>
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<tr>
<td>Mississippi</td>
<td>963 (898 to 1033)</td>
<td>1188 (1111 to 1269)</td>
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<td>Missouri</td>
<td>1021 (979 to 1059)</td>
<td>1290 (1233 to 1338)</td>
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<td>Montana</td>
<td>881 (826 to 942)</td>
<td>1099 (1026 to 1173)</td>
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<td>State</td>
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<td>Female (95% CI)</td>
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<td>1107 (1043 to 1178)</td>
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<td>729 (676 to 807)</td>
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<td>987 (947 to 1028)</td>
<td>1310 (1259 to 1357)</td>
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<td>1102 (1035 to 1195)</td>
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<td>1151 (1106 to 1190)</td>
<td>1515 (1469 to 1545)</td>
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<td>802 (760 to 849)</td>
<td>969 (920 to 1031)</td>
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<td>1367 (1319 to 1406)</td>
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<td>1159 (1102 to 1209)</td>
<td>1428 (1365 to 1477)</td>
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<td>773 (720 to 831)</td>
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<td>Pennsylvania</td>
<td>923 (877 to 968)</td>
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<td>858 (786 to 938)</td>
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<td>South Carolina</td>
<td>957 (907 to 1009)</td>
<td>1156 (1080 to 1241)</td>
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<td>946 (856 to 1057)</td>
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<td>Washington</td>
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<td>911 (851 to 975)</td>
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<tr>
<td>Wyoming</td>
<td>833 (755 to 925)</td>
<td>1042 (953 to 1148)</td>
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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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**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>
<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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<tbody>
<tr>
<td>1 Dietary risks</td>
<td>1 Dietary risks</td>
<td>-23.8%</td>
<td>-23.8%</td>
<td>-23.8%</td>
<td>1 Dietary risks</td>
<td>7.3%</td>
<td>0.4%</td>
<td>-11.9%</td>
</tr>
<tr>
<td>2 High blood pressure</td>
<td>2 High blood pressure</td>
<td>-83.2%</td>
<td>-83.2%</td>
<td>-83.2%</td>
<td>2 High blood pressure</td>
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<td>-1.4%</td>
<td>-13.9%</td>
</tr>
<tr>
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<td>3 High total cholesterol</td>
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<td>-23.4%</td>
<td>-23.4%</td>
<td>3 High body-mass index</td>
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<td>-7.1%</td>
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<td>4 High body-mass index</td>
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<td>-83.2%</td>
<td>-83.2%</td>
<td>3 High body-mass index</td>
<td>12.1%</td>
<td>4.9%</td>
<td>-7.1%</td>
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<td>5 Tobacco</td>
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<td>-83.2%</td>
<td>3 High body-mass index</td>
<td>12.1%</td>
<td>4.9%</td>
<td>-7.1%</td>
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<td>6 High fasting plasma glucose</td>
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<td>-23.4%</td>
<td>3 High fasting plasma glucose</td>
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<td>-83.2%</td>
<td>-83.2%</td>
<td>3 Low physical activity</td>
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<td>8 Impaired kidney function</td>
<td>8 Impaired kidney function</td>
<td>-83.2%</td>
<td>-83.2%</td>
<td>-83.2%</td>
<td>3 Impaired kidney function</td>
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<td>-83.2%</td>
<td>-83.2%</td>
<td>3 Other environmental</td>
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<td>-14.7%</td>
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</table>

Legend:
- Environmental
- Renal
- Metabolic
B. Mississippi

![Leading level 2 cardiovascular risk factors of Mississippi, both sexes](image)

<table>
<thead>
<tr>
<th>Leading risks 1980</th>
<th>Leading risks 2006</th>
<th>Mean % change number of DALYs 1980-2006</th>
<th>Mean % change all-age DALY rate 1980-2006</th>
<th>Mean % change age-standardised DALY rate 1980-2006</th>
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<td>-20.6%</td>
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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