Supplementary Online Content


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This supplementary material has been provided by the authors to give readers additional information about their work.

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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\textsuperscript{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\textsuperscript{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\textsuperscript{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\(^2\). 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 elsewhere1. 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 elsewhere4.
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><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>
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</table>
2) GBD 2016 Disease and Injury Incidence and  

|  | Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant. | Interactive, online data source tool that provides metadata for data sources by component, geography, cause, risk, or impairment has been developed. | Online data tools: http://ghdx.healthdata.org/gbd-2016/data-input-sources
|  | 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.
For data inputs that contribute to the analysis but were not synthesized as part of the study:

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<tr>
<td><strong>7</strong></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>
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For all data inputs:

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<td><strong>8</strong></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>
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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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<th>Page</th>
<th>Statement</th>
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<td>State how analytic or statistical source code used to generate estimates can be accessed.</td>
<td>Access statement provided. <a href="http://ghdx.healthdata.org/global-burden-disease-study-2016">http://ghdx.healthdata.org/global-burden-disease-study-2016</a></td>
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<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). <a href="http://www.healthdata.org/results/data-visualizations">Online data tools</a>; <a href="http://ghdx.healthdata.org">http://ghdx.healthdata.org</a>; <a href="http://ghdx.healthdata.org/gbd-data-tool">http://ghdx.healthdata.org/gbd-data-tool</a></td>
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<td>Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).</td>
<td>Uncertainty intervals are provided with all results. Main text; <a href="http://www.healthdata.org/results/data-visualizations">Online data tools</a>; <a href="http://ghdx.healthdata.org">http://ghdx.healthdata.org</a>; <a href="http://ghdx.healthdata.org/gbd-data-tool">http://ghdx.healthdata.org/gbd-data-tool</a></td>
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<td>Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.</td>
<td>Discussion of limitations provided in the narrative of the main paper as well as in the methodological write-ups of previously published appendices 1) Main text, Limitations 2) 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</td>
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Appendix Table 3a. GBD 2016 CODem model covariates by CVD Cause

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### Appendix Table 5. GBD 2016 Citations Sorted by CVD Cause

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<td>Furberg CD, Psaty BM, Manolio TA, Gardin JM, Smith VE, Rautaharju PM. Prevalence of atrial fibrillation in elderly subjects (the Cardiovascular Health Study). Am J Cardiol. 1994; 74(3): 236-41</td>
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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>Alcohol cardiomyopathy</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>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 3,287)</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>
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<td>Delaware</td>
<td>330 (185 to 401)</td>
<td>433 (295 to 510)</td>
<td>496 (366 to 598)</td>
<td>.54 (.2 to 1.24)</td>
</tr>
<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>
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<tr>
<td>State</td>
<td>Mean</td>
<td>Lower CI</td>
<td>Upper CI</td>
<td>Mean</td>
</tr>
<tr>
<td>-------------</td>
<td>--------</td>
<td>----------</td>
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<tr>
<td>Florida</td>
<td>6.955</td>
<td>(3.459 to 8.650)</td>
<td>(6.314 to 11.596)</td>
<td>12.041</td>
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<tr>
<td>Georgia</td>
<td>2.331</td>
<td>(1.408 to 3.366)</td>
<td>(3.203 to 5.806)</td>
<td>6.067</td>
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<tr>
<td>Hawaii</td>
<td>615</td>
<td>(260 to 796)</td>
<td>(393 to 937)</td>
<td>885</td>
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<td>Idaho</td>
<td>279</td>
<td>(222 to 370)</td>
<td>(325 to 687)</td>
<td>553</td>
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<td>Illinois</td>
<td>4.672</td>
<td>(2.574 to 7.580)</td>
<td>(3.889 to 6.133)</td>
<td>5.653</td>
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<td>Indiana</td>
<td>2.329</td>
<td>(1.395 to 2.820)</td>
<td>(2.106 to 3.384)</td>
<td>2.985</td>
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<tr>
<td>Iowa</td>
<td>975</td>
<td>(730 to 1,161)</td>
<td>(848 to 1,676)</td>
<td>1,259</td>
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<tr>
<td>Kansas</td>
<td>902</td>
<td>(614 to 1,076)</td>
<td>(842 to 1,436)</td>
<td>1,225</td>
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<td>Kentucky</td>
<td>1,204</td>
<td>(963 to 1,570)</td>
<td>(1,374 to 2,576)</td>
<td>1,910</td>
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<tr>
<td>Louisiana</td>
<td>1,598</td>
<td>(1,053 to 1,980)</td>
<td>(1,423 to 3,741)</td>
<td>2,251</td>
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<tr>
<td>Maine</td>
<td>501</td>
<td>(327 to 590)</td>
<td>(448 to 728)</td>
<td>686</td>
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<td>Maryland</td>
<td>2,063</td>
<td>(1,093 to 2,600)</td>
<td>(2,169 to 3,321)</td>
<td>3,250</td>
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<td>Massachusetts</td>
<td>1,731</td>
<td>(1,394 to 2,501)</td>
<td>(1,689 to 3,434)</td>
<td>2,409</td>
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<tr>
<th>State</th>
<th>Mean Deaths</th>
<th>(95% CI)</th>
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<th>(95% CI)</th>
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<th>(95% CI)</th>
<th>Mean Deaths</th>
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<th>(95% CI)</th>
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<td>Michigan</td>
<td>3,556</td>
<td>(2,223 to 4,345)</td>
<td>5,287</td>
<td>(3,571 to 6,206)</td>
<td>5,589</td>
<td>(4,117 to 7,022)</td>
<td>.6</td>
<td>(-.23 to 1.37)</td>
<td>.06</td>
<td>(-.13 to .31)</td>
<td>37</td>
<td>(23 to 45)</td>
<td>43</td>
<td>(29 to 50)</td>
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<tr>
<td>Minnesota</td>
<td>1,184</td>
<td>(957 to 1,563)</td>
<td>1,684</td>
<td>(1,191 to 2,794)</td>
<td>2,144</td>
<td>(1,493 to 3,616)</td>
<td>.81</td>
<td>(.34 to 1.74)</td>
<td>.27</td>
<td>(.08 to .5)</td>
<td>26</td>
<td>(21 to 34)</td>
<td>28</td>
<td>(19 to 45)</td>
</tr>
<tr>
<td>Mississippi</td>
<td>1,124</td>
<td>(694 to 1,366)</td>
<td>1,502</td>
<td>(1,245 to 2,056)</td>
<td>1,699</td>
<td>(1,342 to 2,415)</td>
<td>.55</td>
<td>(.14 to 1.45)</td>
<td>.13</td>
<td>(-.07 to .36)</td>
<td>42</td>
<td>(26 to 51)</td>
<td>44</td>
<td>(36 to 61)</td>
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<tr>
<td>Missouri</td>
<td>2,002</td>
<td>(1,346 to 2,394)</td>
<td>2,266</td>
<td>(1,910 to 3,191)</td>
<td>2,272</td>
<td>(1,783 to 3,780)</td>
<td>.16</td>
<td>(-.17 to 1.03)</td>
<td>0</td>
<td>(-.19 to .26)</td>
<td>36</td>
<td>(24 to 43)</td>
<td>32</td>
<td>(27 to 45)</td>
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<td>258</td>
<td>(201 to 319)</td>
<td>313</td>
<td>(251 to 511)</td>
<td>379</td>
<td>(285 to 677)</td>
<td>.47</td>
<td>(.09 to 1.38)</td>
<td>.21</td>
<td>(-.02 to .46)</td>
<td>29</td>
<td>(23 to 36)</td>
<td>25</td>
<td>(20 to 41)</td>
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<td>483</td>
<td>(397 to 629)</td>
<td>538</td>
<td>(435 to 903)</td>
<td>623</td>
<td>(482 to 1,071)</td>
<td>.29</td>
<td>(-.01 to 1.01)</td>
<td>.15</td>
<td>(-.02 to .34)</td>
<td>28</td>
<td>(23 to 36)</td>
<td>25</td>
<td>(21 to 43)</td>
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<td>Nevada</td>
<td>518</td>
<td>(333 to 666)</td>
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<td>(910 to 1,436)</td>
<td>1,779</td>
<td>(1,263 to 2,166)</td>
<td>2.5</td>
<td>(1.41 to 4.21)</td>
<td>.52</td>
<td>(.19 to .86)</td>
<td>40</td>
<td>(26 to 51)</td>
<td>40</td>
<td>(31 to 48)</td>
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<td>379</td>
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<td>463</td>
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<td>570</td>
<td>(455 to 891)</td>
<td>.51</td>
<td>(.16 to 1.25)</td>
<td>.23</td>
<td>(.05 to .43)</td>
<td>33</td>
<td>(25 to 41)</td>
<td>28</td>
<td>(23 to 42)</td>
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<td>New Jersey</td>
<td>4,058</td>
<td>(2,216 to 4,979)</td>
<td>4,786</td>
<td>(2,840 to 5,654)</td>
<td>4,450</td>
<td>(3,087 to 5,571)</td>
<td>.13</td>
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<td>-.06</td>
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<td>47</td>
<td>(25 to 57)</td>
<td>45</td>
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<td>New Mexico</td>
<td>526</td>
<td>(370 to 628)</td>
<td>792</td>
<td>(652 to 1,161)</td>
<td>877</td>
<td>(683 to 1,411)</td>
<td>.69</td>
<td>(.24 to 1.75)</td>
<td>.11</td>
<td>(-.1 to .37)</td>
<td>35</td>
<td>(25 to 42)</td>
<td>34</td>
<td>(28 to 48)</td>
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<tr>
<td>New York</td>
<td>6,511</td>
<td>(4,907 to 8,600)</td>
<td>6,689</td>
<td>(5,408 to 10,422)</td>
<td>7,080</td>
<td>(5,325 to 12,409)</td>
<td>1</td>
<td>(-.22 to 1.06)</td>
<td>.05</td>
<td>(-.14 to .28)</td>
<td>33</td>
<td>(25 to 43)</td>
<td>29</td>
<td>(23 to 45)</td>
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<tr>
<td>North Carolina</td>
<td>3,256</td>
<td>(1,636 to 4,031)</td>
<td>4,743</td>
<td>(2,925 to 5,572)</td>
<td>5,895</td>
<td>(3,893 to 7,178)</td>
<td>.87</td>
<td>(.44 to 2.22)</td>
<td>.25</td>
<td>(.05 to .58)</td>
<td>46</td>
<td>(23 to 57)</td>
<td>44</td>
<td>(27 to 51)</td>
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<tr>
<td>North Dakota</td>
<td>195</td>
<td>(154 to 266)</td>
<td>190</td>
<td>(152 to 328)</td>
<td>242</td>
<td>(182 to 421)</td>
<td>.24</td>
<td>(-.08 to .83)</td>
<td>.27</td>
<td>(.03 to .53)</td>
<td>28</td>
<td>(22 to 38)</td>
<td>24</td>
<td>(19 to 41)</td>
</tr>
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</table>

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<table>
<thead>
<tr>
<th>State</th>
<th>Cases (95% CI)</th>
<th>Percent Increase (95% CI)</th>
<th>Deaths (95% CI)</th>
<th>Death Rate Ratio (95% CI)</th>
<th>Odds Ratio (95% CI)</th>
<th>95% Confidence Interval</th>
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<tbody>
<tr>
<td>Ohio</td>
<td>2,958 (2,181 to 4,457)</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>
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<tr>
<td>Oklahoma</td>
<td>1,033 (843 to 1,359)</td>
<td>.65 (.25 to 1.69)</td>
<td>.34 (.13 to .6)</td>
<td>30 (24 to 40)</td>
<td>29 (24 to 50)</td>
<td>35 (26 to 61)</td>
</tr>
<tr>
<td>Oregon</td>
<td>1,028 (785 to 1,229)</td>
<td>1 (.48 to 2.02)</td>
<td>.38 (.15 to .62)</td>
<td>32 (25 to 38)</td>
<td>32 (24 to 47)</td>
<td>35 (24 to 55)</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>3,840 (2,567 to 5,435)</td>
<td>.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>
</tr>
<tr>
<td>Rhode Island</td>
<td>350 (278 to 468)</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>
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<tr>
<td>South Carolina</td>
<td>1,472 (871 to 1,793)</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>
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<tr>
<td>South Dakota</td>
<td>193 (157 to 287)</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>
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<tr>
<td>Tennessee</td>
<td>2,157 (1,370 to 2,558)</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>
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<tr>
<td>Texas</td>
<td>4,453 (3,305 to 5,968)</td>
<td>2.237 (1.57 to 6,388)</td>
<td>.14 (-.09 to .45)</td>
<td>27 (20 to 43)</td>
<td>26 (21 to 40)</td>
<td>22 (17 to 42)</td>
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<tr>
<td>Utah</td>
<td>356 (285 to 466)</td>
<td>.97 (.5 to 1.79)</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>
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<tr>
<td>Vermont</td>
<td>205 (141 to 245)</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>
</tr>
<tr>
<td>Virginia</td>
<td>2,334 (1,506 to 2,813)</td>
<td>.88 (.36 to 1.89)</td>
<td>.25 (.1 to .62)</td>
<td>37 (23 to 44)</td>
<td>34 (27 to 42)</td>
<td>38 (26 to 54)</td>
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<tr>
<td>Washington</td>
<td>1,882 (1,227 to 2,248)</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>
</tr>
<tr>
<td>West Virginia</td>
<td>827  (569 to 979)</td>
<td>996  (803 to 1,315)</td>
<td>1,106 (895 to 1,532)</td>
<td>.36 (.04 to 1.09)</td>
<td>.11 (-.07 to .3)</td>
<td>39 (27 to 46)</td>
</tr>
<tr>
<td>----------------</td>
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<tr>
<td>Wisconsin</td>
<td>1,713 (1,191 to 2,019)</td>
<td>2,679 (1,658 to 3,346)</td>
<td>2,990 (1,936 to 4,194)</td>
<td>.76 (.32 to 1.74)</td>
<td>.12 (-.06 to .34)</td>
<td>33 (23 to 38)</td>
</tr>
<tr>
<td>Wyoming</td>
<td>118 (97 to 169)</td>
<td>153 (115 to 272)</td>
<td>190 (135 to 356)</td>
<td>.59 (.18 to 1.37)</td>
<td>.24 (.03 to .49)</td>
<td>26 (22 to 38)</td>
</tr>
</tbody>
</table>

<p>| Aortic aneurysm |||||
|----------------|-------------------|-------------------|-------------------|------------------|------------------|---------------|---------------|---------------|------------------|------------------|
| Alabama        | 4,799 (4,416 to 5,212) | 4,011 (3,721 to 4,344) | 4,045 (3,502 to 4,598) | -.16 (-.28 to .02) | .01 (-.13 to .16) | 100 (92 to 109) | 69 (64 to 75) | 60 (52 to 68) | -.4 (-.49 to -.31) | -.13 (-.25 to 0) |
| Alaska         | 297 (272 to 325) | 368 (336 to 402) | 427 (365 to 494) | .44 (.21 to .71) | .16 (.02 to .36) | 102 (93 to 112) | 62 (57 to 68) | 54 (47 to 62) | -.47 (-.55 to -.37) | -.13 (-.26 to .02) |
| Arizona        | 3,676 (3,382 to 3,963) | 3,922 (3,637 to 4,234) | 4,192 (3,712 to 4,732) | .14 (0 to .31) | .07 (-.06 to .21) | 86 (79 to 92) | 53 (50 to 58) | 43 (38 to 49) | -.49 (-.56 to -.42) | -.19 (-.29 to -.08) |
| Arkansas       | 2,978 (2,742 to 3,237) | 2,637 (2,440 to 2,848) | 2,622 (2,331 to 2,948) | -.12 (-.23 to -.01) | 0 (-.12 to .13) | 98 (85 to 106) | 73 (67 to 78) | 63 (56 to 71) | -.35 (-.43 to -.25) | -.13 (-.23 to -.01) |
| California     | 27,291 (25,331 to 29,624) | 21,726 (20,201 to 23,448) | 21,530 (19,000 to 24,416) | -.21 (-.32 to -.09) | -.01 (-.13 to .13) | 92 (85 to 99) | 54 (50 to 58) | 43 (38 to 49) | -.53 (-.6 to -.46) | -.21 (-.31 to -.1) |
| Colorado       | 3,271 (3,022 to 3,533) | 3,254 (3,023 to 3,474) | 3,693 (3,291 to 4,132) | .13 (.01 to .28) | .14 (0 to .28) | 101 (94 to 110) | 63 (59 to 67) | 52 (47 to 59) | -.48 (-.55 to -.41) | -.17 (-.27 to -.06) |
| Connecticut    | 3,623 (3,344 to 3,905) | 2,500 (2,308 to 2,699) | 2,223 (1,969 to 2,539) | -.39 (-.47 to -.28) | -.11 (-.23 to .02) | 88 (82 to 95) | 53 (49 to 57) | 42 (37 to 48) | -.52 (-.59 to -.44) | -.2 (-.31 to -.07) |
| Delaware       | 836 (770 to 907) | 727 (674 to 782) | 761 (683 to 844) | -.09 (-.2 to .04) | .05 (-.07 to .17) | 111 (102 to 120) | 65 (61 to 70) | 54 (48 to 59) | -.51 (-.57 to -.45) | -.18 (-.27 to -.09) |
| District of Columbia | 741 (648 to 878) | 421 (372 to 495) | 355 (300 to 426) | -.52 (-.59 to -.44) | -.16 (-.28 to -.04) | 107 (94 to 127) | 64 (56 to 75) | 47 (39 to 56) | -.56 (-.63 to -.49) | -.27 (-.37 to -.17) |</p>
<table>
<thead>
<tr>
<th>State</th>
<th>Total Cases (Lower 95% CI to Upper 95% CI)</th>
<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
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<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
<th>Yearly Change (Lower 95% CI to Upper 95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida</td>
<td>18,486 (17,030 to 19,982)</td>
<td>-0.15 (-0.26 to -0.03)</td>
<td>-0.01 (-0.13 to -0.12)</td>
<td>0.94 (86 to 102)</td>
<td>0.60 (56 to 64)</td>
<td>0.48 (42 to 55)</td>
<td>-0.49 (-0.55 to -0.41)</td>
<td>-0.19 (-0.3 to -0.09)</td>
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<tr>
<td>Georgia</td>
<td>6,012 (5,532 to 6,565)</td>
<td>0.07 (-0.08 to 0.25)</td>
<td>0.06 (-0.08 to 0.23)</td>
<td>0.94 (87 to 103)</td>
<td>0.62 (58 to 68)</td>
<td>0.50 (44 to 58)</td>
<td>-0.47 (-0.54 to -0.38)</td>
<td>-0.19 (-0.3 to -0.07)</td>
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<tr>
<td>Hawaii</td>
<td>1,124 (1,038 to 1,216)</td>
<td>0</td>
<td>0.05 (-0.06 to 0.17)</td>
<td>0.95 (88 to 103)</td>
<td>0.62 (58 to 67)</td>
<td>0.54 (49 to 60)</td>
<td>-0.43 (-0.5 to -0.36)</td>
<td>-0.14 (-0.23 to -0.03)</td>
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<tr>
<td>Idaho</td>
<td>1,163 (1,069 to 1,263)</td>
<td>0.06 (-1.11 to 0.23)</td>
<td>0.05 (-0.06 to 0.17)</td>
<td>1.04 (95 to 113)</td>
<td>0.65 (59 to 70)</td>
<td>0.55 (48 to 63)</td>
<td>-0.47 (-0.55 to -0.38)</td>
<td>-0.16 (-0.28 to -0.02)</td>
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<td>Illinois</td>
<td>12,406 (11,506 to 13,353)</td>
<td>-3 (-0.38 to -0.21)</td>
<td>-0.05 (-0.15 to 0.07)</td>
<td>0.94 (87 to 101)</td>
<td>0.60 (56 to 65)</td>
<td>0.50 (45 to 56)</td>
<td>-0.47 (-0.53 to -0.4)</td>
<td>-0.17 (-0.26 to -0.07)</td>
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<tr>
<td>Indiana</td>
<td>6,732 (6,377 to 7,288)</td>
<td>-0.17 (-0.3 to -0.05)</td>
<td>0.01 (-0.14 to 0.16)</td>
<td>1.04 (97 to 113)</td>
<td>0.71 (66 to 77)</td>
<td>0.62 (54 to 71)</td>
<td>-0.41 (-0.49 to -0.31)</td>
<td>-0.13 (-0.26 to 0)</td>
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<td>Iowa</td>
<td>3,536 (3,266 to 3,811)</td>
<td>-0.31 (-0.4 to -0.21)</td>
<td>-0.03 (-0.14 to 0.09)</td>
<td>0.93 (86 to 101)</td>
<td>0.61 (56 to 66)</td>
<td>0.53 (47 to 60)</td>
<td>-0.43 (-0.5 to -0.35)</td>
<td>-0.13 (-0.23 to -0.01)</td>
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<td>Kansas</td>
<td>2,910 (2,676 to 3,152)</td>
<td>-0.26 (-0.37 to -0.13)</td>
<td>-0.03 (-0.16 to -0.12)</td>
<td>0.94 (87 to 102)</td>
<td>0.64 (59 to 69)</td>
<td>0.55 (47 to 62)</td>
<td>-0.42 (-0.51 to -0.32)</td>
<td>-0.14 (-0.27 to 0)</td>
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<td>Kentucky</td>
<td>4,515 (4,170 to 4,840)</td>
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<td>0.02 (-0.1 to 0.15)</td>
<td>1.05 (97 to 112)</td>
<td>0.71 (66 to 77)</td>
<td>0.62 (55 to 69)</td>
<td>-0.41 (-0.48 to -0.33)</td>
<td>-0.13 (-0.23 to -0.02)</td>
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<tr>
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<td>0.02 (-0.09 to 0.14)</td>
<td>0.96 (88 to 105)</td>
<td>0.65 (60 to 71)</td>
<td>0.55 (50 to 63)</td>
<td>-0.42 (-0.49 to -0.35)</td>
<td>-0.15 (-0.24 to -0.05)</td>
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<td>-0.03 (-0.14 to 0.1)</td>
<td>1.16 (108 to 126)</td>
<td>0.68 (63 to 74)</td>
<td>0.57 (51 to 63)</td>
<td>-0.51 (-0.57 to -0.45)</td>
<td>-0.16 (-0.26 to -0.06)</td>
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<tr>
<td>Maryland</td>
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<td>-0.03 (-0.13 to 0.08)</td>
<td>0.95 (88 to 104)</td>
<td>0.54 (50 to 60)</td>
<td>0.44 (39 to 49)</td>
<td>-0.54 (-0.6 to -0.49)</td>
<td>-0.2 (-0.28 to -0.1)</td>
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<tr>
<td>Massachusetts</td>
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<td>-0.09 (-0.18 to 0.02)</td>
<td>0.92 (85 to 99)</td>
<td>0.52 (48 to 56)</td>
<td>0.41 (37 to 46)</td>
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<td>-0.2 (-0.29 to -0.11)</td>
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<tr>
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<td>5-9 Years</td>
<td>10-14 Years</td>
<td>15-19 Years</td>
<td>20-24 Years</td>
<td>25-29 Years</td>
<td>30-34 Years</td>
<td>35-39 Years</td>
<td>40-44 Years</td>
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</tr>
<tr>
<td>Michigan</td>
<td>10,544 (9,776 to 11,356)</td>
<td>8,731 (8,187 to 9,364)</td>
<td>8,266 (7,511 to 9,143)</td>
<td>-0.22 (-0.3 to -0.12)</td>
<td>-0.05 (-0.15 to -0.05)</td>
<td>102 (94 to 109)</td>
<td>69 (65 to 74)</td>
<td>58 (53 to 64)</td>
<td>-0.43 (-0.49 to -0.36)</td>
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<tr>
<td>Minnesota</td>
<td>5,224 (4,805 to 5,673)</td>
<td>4,017 (3,688 to 4,347)</td>
<td>4,058 (3,610 to 4,515)</td>
<td>-0.22 (-0.32 to -0.11)</td>
<td>0.01 (-0.11 to -0.14)</td>
<td>103 (95 to 112)</td>
<td>63 (58 to 68)</td>
<td>52 (46 to 58)</td>
<td>-0.49 (-0.56 to -0.42)</td>
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<tr>
<td>Mississippi</td>
<td>2,641 (2,437 to 2,873)</td>
<td>2,414 (2,217 to 2,635)</td>
<td>2,431 (2,121 to 2,808)</td>
<td>-0.08 (-0.22 to -0.07)</td>
<td>0.01 (-0.14 to -0.16)</td>
<td>91 (84 to 99)</td>
<td>70 (64 to 76)</td>
<td>61 (53 to 71)</td>
<td>-0.33 (-0.43 to -0.22)</td>
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<tr>
<td>Missouri</td>
<td>6,313 (5,841 to 6,775)</td>
<td>4,711 (4,418 to 5,040)</td>
<td>4,661 (4,248 to 5,134)</td>
<td>-0.26 (-0.34 to -0.18)</td>
<td>-0.01 (-0.11 to -0.1)</td>
<td>98 (91 to 105)</td>
<td>63 (59 to 68)</td>
<td>54 (50 to 60)</td>
<td>-0.44 (-0.5 to -0.38)</td>
</tr>
<tr>
<td>Montana</td>
<td>976 (894 to 1,071)</td>
<td>831 (767 to 901)</td>
<td>854 (740 to 974)</td>
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<td>0.03 (-0.11 to -0.19)</td>
<td>100 (92 to 109)</td>
<td>64 (59 to 70)</td>
<td>54 (47 to 62)</td>
<td>-0.46 (-0.54 to -0.37)</td>
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<tr>
<td>Nebraska</td>
<td>1,858 (1,708 to 2,017)</td>
<td>1,340 (1,239 to 1,443)</td>
<td>1,341 (1,205 to 1,478)</td>
<td>-0.28 (-0.36 to -0.18)</td>
<td>0 (-0.11 to -0.12)</td>
<td>93 (86 to 101)</td>
<td>59 (55 to 64)</td>
<td>52 (46 to 57)</td>
<td>-0.44 (-0.51 to -0.37)</td>
</tr>
<tr>
<td>Nevada</td>
<td>1,339 (1,221 to 1,492)</td>
<td>1,903 (1,750 to 2,109)</td>
<td>2,129 (1,869 to 2,426)</td>
<td>0.59 (-0.39 to 0.8)</td>
<td>0.12 (-0.01 to -0.26)</td>
<td>106 (97 to 117)</td>
<td>66 (61 to 73)</td>
<td>54 (47 to 61)</td>
<td>-0.49 (-0.56 to -0.43)</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>1,224 (1,130 to 1,331)</td>
<td>952 (880 to 1,023)</td>
<td>974 (876 to 1,080)</td>
<td>-0.2 (-0.3 to -0.09)</td>
<td>0.02 (-0.09 to -0.15)</td>
<td>103 (95 to 112)</td>
<td>57 (53 to 61)</td>
<td>47 (42 to 53)</td>
<td>-0.54 (-0.59 to -0.48)</td>
</tr>
<tr>
<td>New Jersey</td>
<td>8,894 (8,218 to 9,582)</td>
<td>5,930 (5,531 to 6,381)</td>
<td>5,309 (4,768 to 5,921)</td>
<td>-0.4 (-0.48 to -0.32)</td>
<td>-1 (-0.2 to -0.1)</td>
<td>93 (86 to 100)</td>
<td>53 (50 to 57)</td>
<td>42 (38 to 47)</td>
<td>-0.55 (-0.61 to -0.49)</td>
</tr>
<tr>
<td>New Mexico</td>
<td>1,323 (1,213 to 1,452)</td>
<td>1,334 (1,233 to 1,441)</td>
<td>1,419 (1,225 to 1,614)</td>
<td>0.07 (-0.09 to -0.25)</td>
<td>0.06 (-0.08 to -0.23)</td>
<td>85 (78 to 93)</td>
<td>56 (52 to 60)</td>
<td>49 (43 to 56)</td>
<td>-0.42 (-0.51 to -0.32)</td>
</tr>
<tr>
<td>New York</td>
<td>19,121 (17,790 to 20,489)</td>
<td>12,640 (11,807 to 13,600)</td>
<td>11,313 (9,995 to 12,858)</td>
<td>-0.41 (-0.49 to -0.32)</td>
<td>-1 (-0.22 to -0.03)</td>
<td>89 (82 to 95)</td>
<td>52 (49 to 56)</td>
<td>41 (36 to 47)</td>
<td>-0.54 (-0.6 to -0.46)</td>
</tr>
<tr>
<td>North Carolina</td>
<td>7,266 (6,763 to 7,836)</td>
<td>6,644 (6,208 to 7,131)</td>
<td>6,911 (6,278 to 7,639)</td>
<td>-0.05 (-0.15 to -0.07)</td>
<td>0.04 (-0.07 to -0.16)</td>
<td>96 (90 to 104)</td>
<td>61 (57 to 66)</td>
<td>50 (45 to 55)</td>
<td>-0.48 (-0.54 to -0.42)</td>
</tr>
<tr>
<td>North Dakota</td>
<td>727 (666 to 792)</td>
<td>518 (473 to 563)</td>
<td>510 (445 to 577)</td>
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<td>59 (54 to 64)</td>
<td>51 (45 to 59)</td>
<td>-0.43 (-0.51 to -0.34)</td>
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<thead>
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<th>State</th>
<th>Incidence Rate (95% CI)</th>
<th>Age Standardized Rate (95% CI)</th>
<th>Yearly Trend (95% CI)</th>
<th>Mortality Rate (95% CI)</th>
<th>Disability-Adjusted Life Years Lost (95% CI)</th>
<th>Unmet Need (95% CI)</th>
<th>Unmet Need/Yearly Trend (95% CI)</th>
<th>Unmet Need/Mortality Rate (95% CI)</th>
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<td>13,687 (12,719 to 14,669)</td>
<td>10,188 (9,529 to 10,869)</td>
<td>-0.29 (-0.37 to -0.19)</td>
<td>-0.04 (-0.14 to -0.07)</td>
<td>105 (98 to 113)</td>
<td>68 (64 to 73)</td>
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<td>0.03 (-0.08 to -0.15)</td>
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<td>62 (57 to 66)</td>
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<td>3,990 (3,672 to 4,326)</td>
<td>3,795 (3,508 to 4,099)</td>
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<td>South Dakota</td>
<td>908 (830 to 987)</td>
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<td>102 (93 to 111)</td>
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<td>116 (107 to 126)</td>
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<td>6,076 (5,654 to 6,538)</td>
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<tr>
<th>State</th>
<th>Population (95% CI)</th>
<th>Disability-Adjusted Life Years</th>
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<th>95% Confidence Interval</th>
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<td>1,359 (1,021 to 1,778)</td>
<td>2,280 (1,755 to 2,886)</td>
<td>2,960 (2,290 to 3,727)</td>
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<td>1,400 (1,048 to 1,815)</td>
<td>2,472 (1,909 to 3,113)</td>
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<th>State</th>
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<td>7,251 (5,643 to 9,074)</td>
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<td>.27 (.21 to .33)</td>
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<td>Pennsylvania</td>
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<td>Tennessee</td>
<td>20,236 (15,254 to 26,172)</td>
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<td>12,852 (9,957 to 16,115)</td>
<td>16,281 (12,644 to 20,348)</td>
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<td>6,724 (5,048 to 8,655)</td>
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<td>14,763 (11,411 to 18,563)</td>
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<td>.32 (.27 to .38)</td>
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<td>1,569 (1,225 to 2,092)</td>
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<td>9,200 (6,944 to 11,827)</td>
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<td>3,899 (2,801 to 4,774)</td>
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<td>.29 (.12 to .48)</td>
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<td>630 (426 to 742)</td>
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<td>.31 (.14 to .49)</td>
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<td>.17 (.03 to .31)</td>
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<td>959 (752 to 1,512)</td>
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<th>Annual Change</th>
<th>Adult Male Prevalence</th>
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<th>Change</th>
<th>Confidence Interval</th>
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<tr>
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<td>9,176 (6,837 to 12,136)</td>
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<td>.28 (.14 to .45)</td>
<td>179 (129 to 229)</td>
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<td>172 (124 to 220)</td>
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<td>992 (756 to 1,680)</td>
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<td>.25 (.09 to .42)</td>
<td>92 (66 to 168)</td>
<td>93 (70 to 159)</td>
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<td>2,813 (2,493 to 3,292)</td>
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<th>73,508 (68,510 to 79,060)</th>
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<th>.15 (.04 to .27)</th>
<th>342 (319 to 370)</th>
<th>299 (279 to 322)</th>
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<td>54,258 (47,916 to 61,249)</td>
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**Ischemic heart disease**

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<td>40,589 (38,670 to 42,729)</td>
<td>-0.14 (0 to 0.28)</td>
<td>42,285 (40,299 to 44,425)</td>
<td>2,662 (2,554 to 2,804)</td>
<td>1,724 (1,644 to 1,812)</td>
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<tr>
<td>New York</td>
<td>845,708 (808,680 to 881,262)</td>
<td>-0.38 (-0.44 to -0.31)</td>
<td>564,976 (540,049 to 591,719)</td>
<td>3,916 (3,743 to 4,084)</td>
<td>2,219 (2,117 to 2,327)</td>
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<tr>
<td>North Carolina</td>
<td>269,864 (258,737 to 282,086)</td>
<td>-0.08 (-0.15 to 0)</td>
<td>231,158 (220,791 to 241,844)</td>
<td>3,647 (3,494 to 3,813)</td>
<td>2,090 (1,995 to 2,186)</td>
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<tr>
<td>North Dakota</td>
<td>23,683 (22,452 to 24,830)</td>
<td>-0.33 (-0.4 to -0.24)</td>
<td>15,976 (14,277 to 17,725)</td>
<td>2,934 (2,769 to 3,088)</td>
<td>1,717 (1,618 to 1,804)</td>
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<thead>
<tr>
<th>State</th>
<th>2007 Deaths</th>
<th>2006 Deaths</th>
<th>% Change</th>
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<td>472,793</td>
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<td>-.28</td>
<td>(-.34 to -.23)</td>
<td>(-.39 to -.20)</td>
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<td>149,288</td>
<td>135,785</td>
<td>-.05</td>
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<td>(-.13 to -.03)</td>
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<td>75,072</td>
<td>-.26</td>
<td>(-.32 to -.19)</td>
<td>(-.36 to -.13)</td>
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<td>385,413</td>
<td>-.37</td>
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<td>(-.47 to -.29)</td>
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<tr>
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<td>44,503</td>
<td>30,926</td>
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<td>(-.52 to -.29)</td>
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<td>143,998</td>
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<td>0</td>
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<td>(-.13 to .15)</td>
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<td>27,883</td>
<td>20,275</td>
<td>-.25</td>
<td>(-.33 to -.17)</td>
<td>(-.37 to -.11)</td>
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<td>223,098</td>
<td>204,634</td>
<td>.01</td>
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<td>34,305</td>
<td>.14</td>
<td>(.05 to .24)</td>
<td>(.10 to .18)</td>
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<td>13,211</td>
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<td>-.14</td>
<td>(-.21 to -.07)</td>
<td>(-.25 to -.10)</td>
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<td>Washington</td>
<td>145,587</td>
<td>121,015</td>
<td>-.13</td>
<td>(-.2 to -.05)</td>
<td>(-.25 to -.08)</td>
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<table>
<thead>
<tr>
<th>State</th>
<th>2013 Count (95% CI)</th>
<th>2014 Count (95% CI)</th>
<th>2015 Count (95% CI)</th>
<th>Mean Difference (95% CI)</th>
<th>Variance</th>
<th>Variance Change (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Virginia</td>
<td>98,907 (94,895 to 102,945)</td>
<td>71,439 (68,048 to 74,767)</td>
<td>69,955 (64,497 to 75,515)</td>
<td>-.29 (-.35 to -.23)</td>
<td>-.02 (-.1 to -.06)</td>
<td>-.01 (95% CI)</td>
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<tr>
<td>Wisconsin</td>
<td>182,701 (176,082 to 189,395)</td>
<td>127,594 (122,502 to 132,757)</td>
<td>131,371 (122,115 to 140,317)</td>
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<td>.03 (-.05 to .11)</td>
<td>-.05 (95% CI)</td>
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<tr>
<td>Wyoming</td>
<td>12,581 (11,963 to 13,248)</td>
<td>12,252 (11,582 to 12,911)</td>
<td>12,679 (11,275 to 14,189)</td>
<td>.01 (-.11 to .14)</td>
<td>.04 (-.08 to .17)</td>
<td>.06 (95% CI)</td>
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</tbody>
</table>

**Ischemic stroke**

<table>
<thead>
<tr>
<th>State</th>
<th>2013 Count (95% CI)</th>
<th>2014 Count (95% CI)</th>
<th>2015 Count (95% CI)</th>
<th>Mean Difference (95% CI)</th>
<th>Variance</th>
<th>Variance Change (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>30,848 (27,801 to 34,170)</td>
<td>36,632 (32,794 to 40,346)</td>
<td>40,364 (35,622 to 45,412)</td>
<td>.31 (.18 to .45)</td>
<td>.1 (0 to .21)</td>
<td>.2 (95% CI)</td>
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<tr>
<td>Alaska</td>
<td>1,304 (1,154 to 1,452)</td>
<td>2,403 (2,085 to 2,691)</td>
<td>3,011 (2,607 to 3,410)</td>
<td>1.31 (1.09 to 1.55)</td>
<td>.25 (.13 to .38)</td>
<td>.04 (95% CI)</td>
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<tr>
<td>Arizona</td>
<td>18,595 (16,406 to 20,816)</td>
<td>30,431 (26,738 to 34,034)</td>
<td>36,255 (31,017 to 41,301)</td>
<td>.95 (.79 to 1.11)</td>
<td>.19 (.1 to .29)</td>
<td>.04 (95% CI)</td>
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<tr>
<td>Arkansas</td>
<td>21,520 (19,284 to 23,723)</td>
<td>22,430 (19,986 to 24,910)</td>
<td>24,823 (21,983 to 27,873)</td>
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<td>.04 (95% CI)</td>
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<tr>
<td>California</td>
<td>152,209 (135,607 to 168,527)</td>
<td>164,208 (143,021 to 184,023)</td>
<td>184,248 (160,092 to 212,519)</td>
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<td>.12 (.04 to .22)</td>
<td>.03 (95% CI)</td>
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<tr>
<td>Colorado</td>
<td>13,882 (12,265 to 15,490)</td>
<td>20,456 (18,145 to 22,695)</td>
<td>24,458 (21,371 to 27,451)</td>
<td>.76 (.62 to .91)</td>
<td>.2 (.12 to .28)</td>
<td>.06 (95% CI)</td>
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<tr>
<td>Connecticut</td>
<td>16,904 (14,747 to 19,065)</td>
<td>17,818 (15,321 to 20,119)</td>
<td>18,157 (15,683 to 20,872)</td>
<td>.07 (-.03 to .18)</td>
<td>.02 (-.06 to .11)</td>
<td>.01 (95% CI)</td>
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<tr>
<td>Delaware</td>
<td>3,442 (3,039 to 3,854)</td>
<td>4,678 (4,085 to 5,248)</td>
<td>5,477 (4,752 to 6,181)</td>
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<td>.17 (.09 to .27)</td>
<td>.09 (95% CI)</td>
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<tr>
<td>District of Columbia</td>
<td>4,079 (3,619 to 4,682)</td>
<td>2,532 (2,181 to 2,893)</td>
<td>2,329 (1,956 to 2,698)</td>
<td>-.43 (-.49 to -.37)</td>
<td>-.08 (-.16 to 0)</td>
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<td>Estimated Population (95% CI)</td>
<td>Prevalence Rate (95% CI)</td>
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<td>Florida</td>
<td>88,804 (78,144 to 99,954)</td>
<td>109,177 (94,538 to 123,084)</td>
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<td>42,004 (37,880 to 46,566)</td>
<td>52,335 (46,380 to 57,731)</td>
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<tr>
<td>Hawaii</td>
<td>5,101 (4,499 to 5,706)</td>
<td>7,023 (6,102 to 7,886)</td>
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<tr>
<td>Idaho</td>
<td>5,649 (4,996 to 6,340)</td>
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<td>70,038 (63,343 to 76,930)</td>
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<td>35,997 (32,157 to 40,117)</td>
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<tr>
<td>Iowa</td>
<td>19,237 (17,114 to 21,350)</td>
<td>19,894 (15,573 to 24,219)</td>
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<td>Kansas</td>
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<td>Kentucky</td>
<td>24,330 (21,760 to 26,938)</td>
<td>26,415 (23,304 to 29,511)</td>
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<tr>
<td>Louisiana</td>
<td>32,762 (28,867 to 36,407)</td>
<td>33,603 (29,147 to 37,816)</td>
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<tr>
<td>Maine</td>
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<tr>
<td>Massachusetts</td>
<td>32,762 (28,867 to 36,407)</td>
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<tr>
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<td>56,228 (49,046 to 62,602)</td>
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<td>.09 (.01 to .16)</td>
<td>.09 (.01 to .16)</td>
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<tr>
<td>Minnesota</td>
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<td>26,843 (23,487 to 30,124)</td>
<td>30,336 (26,087 to 34,200)</td>
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<td>.13 (.05 to .22)</td>
<td>.13 (.05 to .22)</td>
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<tr>
<td>Mississippi</td>
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<td>20,499 (18,309 to 22,695)</td>
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<td>Missouri</td>
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<td>36,312 (31,790 to 40,504)</td>
<td>39,665 (34,897 to 44,343)</td>
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<td>.09 (.01 to .18)</td>
<td>.09 (.01 to .18)</td>
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<tr>
<td>Montana</td>
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<td>5,702 (5,041 to 6,412)</td>
<td>6,437 (5,582 to 7,268)</td>
<td>.35 (.22 to .48)</td>
<td>.13 (.03 to .23)</td>
<td>.13 (.03 to .23)</td>
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<tr>
<td>Nebraska</td>
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<td>10,841 (9,569 to 12,132)</td>
<td>11,502 (10,116 to 12,820)</td>
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<td>12,711 (11,162 to 14,444)</td>
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<tr>
<td>New Hampshire</td>
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<td>New Jersey</td>
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<td>.21 (.1 to .33)</td>
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<tr>
<td>New York</td>
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<td>66,434 (56,759 to 76,417)</td>
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<tr>
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<tr>
<td>Ohio</td>
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<td>(.3 to .58)</td>
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<td>(-.1 to .09)</td>
<td>- .</td>
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<td>(34,511 to 42,349)</td>
<td>.31</td>
<td>(.2 to .41)</td>
<td>.15</td>
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</tr>
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<td>Texas</td>
<td>36,925</td>
<td>(32,643 to 41,032)</td>
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<td>.531</td>
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<td>(24,924 to 30,965)</td>
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<td>(.77 to 1.1)</td>
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<tr>
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<td>36,459</td>
<td>(32,643 to 40,032)</td>
<td>.33</td>
<td>(.23 to .44)</td>
<td>.13</td>
<td>.572</td>
</tr>
<tr>
<td>Virginia</td>
<td>36,925</td>
<td>(32,643 to 41,032)</td>
<td>.44</td>
<td>(.33 to .56)</td>
<td>.1</td>
<td>.510</td>
</tr>
</tbody>
</table>

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<p>| State         | Myocarditis (Incidence, 95% CI) | West Virginia | | Wisconsin | | Wyoming | | California | | Colorado | | Connecticut | | Delaware | | District of Columbia |
|--------------|--------------------------------|--------------|---|------------|---|----------|---|------------|---|----------|---|----------|
|              |                                | 12,359       | 13,280 | 14,147 | .15 (.05 to .23) | .07 (-.01 to .15) | 497 (445 to 552) | 467 (410 to 520) | 447 (394 to 499) | -1 (-.17 to -.03) | -25 (-.74 to -.13) | -29 (-.47 to -.03) |
|              |                                | (11,638 to 13,722) | (11,654 to 14,768) | (12,513 to 15,759) | (.05 to .23) | (-.01 to .15) | (445 to 552) | (410 to 520) | (394 to 499) | (-.17 to -.03) | (-.74 to -.13) | (-.47 to -.03) |
|              |                                | 30,224       | 33,285 | 35,088 | .16 (.07 to .25) | .06 (-.03 to .14) | 475 (424 to 528) | 418 (364 to 470) | 376 (326 to 422) | -21 (-.27 to -.15) | -2 (-.3 to -.15) | -13 (-.2 to -.05) |
|              |                                | (26,998 to 33,482) | (29,159 to 37,320) | (30,598 to 39,446) | (.07 to .25) | (-.03 to .14) | (424 to 528) | (364 to 470) | (326 to 422) | (-.27 to -.15) | (-.3 to -.15) | (-.2 to -.05) |
|              |                                | 2,071        | 2,703 | 2,944 | .42 (.28 to .56) | .09 (0 to .19) | 453 (402 to 507) | 406 (354 to 453) | 353 (303 to 399) | -2.2 (-.3 to -.15) | -1.3 (-.2 to -.05) |                |
|              |                                | (1,836 to 2,316) | (2,363 to 3,025) | (2,528 to 3,323) | (.28 to .56) | (0 to .19) | (402 to 507) | (354 to 453) | (303 to 399) | (-.3 to -.15) | (-.2 to -.05) |                |
|              |                                | 12,359       | 13,280 | 14,147 | .15 (.05 to .23) | .07 (-.01 to .15) | 497 (445 to 552) | 467 (410 to 520) | 447 (394 to 499) | -1 (-.17 to -.03) | -25 (-.74 to -.13) | -29 (-.47 to -.03) |
|              |                                | (11,638 to 13,722) | (11,654 to 14,768) | (12,513 to 15,759) | (.05 to .23) | (-.01 to .15) | (445 to 552) | (410 to 520) | (394 to 499) | (-.17 to -.03) | (-.74 to -.13) | (-.47 to -.03) |
|              |                                | 30,224       | 33,285 | 35,088 | .16 (.07 to .25) | .06 (-.03 to .14) | 475 (424 to 528) | 418 (364 to 470) | 376 (326 to 422) | -21 (-.27 to -.15) | -2 (-.3 to -.15) | -13 (-.2 to -.05) |
|              |                                | (26,998 to 33,482) | (29,159 to 37,320) | (30,598 to 39,446) | (.07 to .25) | (-.03 to .14) | (424 to 528) | (364 to 470) | (326 to 422) | (-.27 to -.15) | (-.3 to -.15) | (-.2 to -.05) |
|              |                                | 2,071        | 2,703 | 2,944 | .42 (.28 to .56) | .09 (0 to .19) | 453 (402 to 507) | 406 (354 to 453) | 353 (303 to 399) | -2.2 (-.3 to -.15) | -1.3 (-.2 to -.05) |                |
|              |                                | (1,836 to 2,316) | (2,363 to 3,025) | (2,528 to 3,323) | (.28 to .56) | (0 to .19) | (402 to 507) | (354 to 453) | (303 to 399) | (-.3 to -.15) | (-.2 to -.05) |                |
|              |                                | 12,359       | 13,280 | 14,147 | .15 (.05 to .23) | .07 (-.01 to .15) | 497 (445 to 552) | 467 (410 to 520) | 447 (394 to 499) | -1 (-.17 to -.03) | -25 (-.74 to -.13) | -29 (-.47 to -.03) |
|              |                                | (11,638 to 13,722) | (11,654 to 14,768) | (12,513 to 15,759) | (.05 to .23) | (-.01 to .15) | (445 to 552) | (410 to 520) | (394 to 499) | (-.17 to -.03) | (-.74 to -.13) | (-.47 to -.03) |</p>
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<th>Death Rate Change (95% CI)</th>
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<td>21 (13 to 25)</td>
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<td>-.04 (-.18 to .14)</td>
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<td>10 (7 to 13)</td>
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<td>11 (9 to 16)</td>
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<td>18 (14 to 21)</td>
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<td>179 (126 to 219)</td>
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<td>10 (8 to 14)</td>
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<td>15 (11 to 20)</td>
<td>22 (12 to 29)</td>
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<td>15 (8 to 18)</td>
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<td>.31 (-.22 to .74)</td>
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<th>State</th>
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<th>Mortality (95% CI)</th>
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<th>Prevalence (95% CI)</th>
<th>Hypertension (95% CI)</th>
<th>Diabetes (95% CI)</th>
<th>Obesity (95% CI)</th>
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<td>3,617 (3,253 to 4,343)</td>
<td>4,536 (3,862 to 6,468)</td>
<td>5,339 (4,302 to 8,220)</td>
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<td>.17 (.03 to .35)</td>
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<td>14,274 (9,114 to 16,863)</td>
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<td>(885 to 1,526)</td>
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### West Virginia

<table>
<thead>
<tr>
<th>Cardiovascular and Circulatory Disease</th>
<th>Estimated Prevalence (95% UI)</th>
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<tbody>
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<td></td>
<td>2018</td>
</tr>
<tr>
<td>Other cardiovascular and circulatory</td>
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</tr>
<tr>
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<tr>
<td>Alabama</td>
<td>14,793 (13,217 to 16,669)</td>
</tr>
<tr>
<td>Alaska</td>
<td>1,022 (903 to 1,168)</td>
</tr>
<tr>
<td>Arizona</td>
<td>8,502 (7,571 to 9,588)</td>
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<tr>
<td>Arkansas</td>
<td>8,502 (7,571 to 9,588)</td>
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<tr>
<td>California</td>
<td>63,905 (56,903 to 72,305)</td>
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<tr>
<td>Colorado</td>
<td>9,206 (8,068 to 10,631)</td>
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<tr>
<td>Connecticut</td>
<td>10,601 (9,284 to 12,137)</td>
</tr>
<tr>
<td>Delaware</td>
<td>2,297 (2,044 to 2,604)</td>
</tr>
<tr>
<td>District of Columbia</td>
<td>3,227 (2,817 to 3,827)</td>
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### Wisconsin

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<th>Estimated Prevalence (95% UI)</th>
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<td>Other cardiovascular and circulatory</td>
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### Wyoming

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<td>Other cardiovascular and circulatory</td>
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<td>11,540 (10,313 to 13,116)</td>
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<td>3,982 (3,503 to 4,562)</td>
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<td>18,527 (16,307 to 21,214)</td>
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<td>3,701 (2,693 to 5,668)</td>
<td>1,563 (1,156 to 2,436)</td>
<td>1,356 (986 to 2,172)</td>
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<td>Alabama 4,060 (3,782 to 4,347) 4,006 (3,761 to 4,269) 4,471 (3,946 to 5,015) .1 (-.04 to .26) .12 (-.02 to .26) 89 (83 to 95) 70 (66 to 75) 68 (60 to 76) -24 (-.34 to -.12) -93 (-.15 to .09)</td>
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<td>Alaska 348 (320 to 377) 386 (356 to 418) 466 (401 to 531) .34 (.12 to .58) .21 (.03 to .4) 102 (94 to 111) 63 (58 to 68) 60 (52 to 68) -41 (-.51 to -.31) -95 (-.19 to .09)</td>
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<td>Arizona 2,463 (2,309 to 2,640) 2,560 (2,403 to 2,725) 3,003 (2,728 to 3,322) .22 (.08 to .38) .17 (.05 to .31) 60 (57 to 65) 36 (34 to 38) 32 (29 to 35) -47 (-.53 to -.4) -.1 (-.2 to .01)</td>
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<td>Arkansas 2,100 (1,975 to 2,234) 1,924 (1,804 to 2,045) 2,182 (1,967 to 2,400) .04 (-.07 to .17) .13 (.02 to .26) 73 (69 to 78) 55 (51 to 58) 54 (49 to 60) -26 (-.34 to -.17) 0 (-.1 to .11)</td>
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<td>Colorado 2,691 (2,525 to 2,879) 2,520 (2,353 to 2,690) 3,014 (2,700 to 3,327) .12 (-.01 to .27) .2 (.07 to .33) 83 (78 to 89) 49 (46 to 52) 44 (39 to 48) -48 (-.53 to -.4) -.11 (-.2 to 0)</td>
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<td>Connecticut 2,636 (2,454 to 2,841) 1,770 (1,651 to 1,886) 1,761 (1,562 to 1,983) -.33 (-.42 to -.23) 0 (-.11 to .12) 67 (62 to 72) 37 (35 to 40) 33 (29 to 38) -5 (-.57 to -.4) -.11 (-.21 to .01)</td>
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© 2018 Global Burden of Cardiovascular Diseases Collaboration. JAMA Cardiology.
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© 2018 Global Burden of Cardiovascular Diseases Collaboration. *JAMA Cardiology.*
**eTable 2. Age-standardized heart failure prevalence per 100 000 persons for 2016**

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© 2018 Global Burden of Cardiovascular Diseases Collaboration. JAMA Cardiology.
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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
B. Mississippi

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

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

For the time period 1990 to 2016 and for 2006 to 2016, three measures of change are shown: percent change in the number of DALYs, percent change in the all-age DALY rate and percent change in the age-standardized DALY rate. Statistically significant increases or decreases are shown in bold (p < 0.05). DALYs=disability-adjusted life-years.

<table>
<thead>
<tr>
<th>Leading risks 1990</th>
<th>Leading risks 2006</th>
<th>Leading risks 2016</th>
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<tbody>
<tr>
<td>1 Dietary risks</td>
<td>1 Dietary risks</td>
<td>1 Dietary risks</td>
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<tr>
<td>2 High blood pressure</td>
<td>2 High blood pressure</td>
<td>2 High blood pressure</td>
</tr>
<tr>
<td>3 High total cholesterol</td>
<td>3 High total cholesterol</td>
<td>3 High total cholesterol</td>
</tr>
<tr>
<td>4 High body-mass index</td>
<td>4 High body-mass index</td>
<td>4 High body-mass index</td>
</tr>
<tr>
<td>5 Tobacco</td>
<td>5 Tobacco</td>
<td>5 Tobacco</td>
</tr>
<tr>
<td>6 High fasting plasma glucose</td>
<td>6 High fasting plasma glucose</td>
<td>6 High fasting plasma glucose</td>
</tr>
<tr>
<td>7 Air pollution</td>
<td>7 Air pollution</td>
<td>7 Air pollution</td>
</tr>
<tr>
<td>8 Low physical activity</td>
<td>8 Low physical activity</td>
<td>8 Low physical activity</td>
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<tr>
<td>9 Impaired kidney function</td>
<td>9 Impaired kidney function</td>
<td>9 Impaired kidney function</td>
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<tr>
<td>10 Occupational risks</td>
<td>10 Occupational risks</td>
<td>10 Occupational risks</td>
</tr>
<tr>
<td>11 Alcohol &amp; drug use</td>
<td>11 Alcohol &amp; drug use</td>
<td>11 Alcohol &amp; drug use</td>
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</table>

<table>
<thead>
<tr>
<th>Mean % change number of DALYs 1990-2006</th>
<th>Mean % change all-age DALY rate 1990-2006</th>
<th>Mean % change age-standardized DALY rate 1990-2006</th>
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</thead>
<tbody>
<tr>
<td>-11.9%</td>
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<td>18.9%</td>
<td>-20.9%</td>
<td>-18.6%</td>
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<tr>
<td>-12.9%</td>
<td>-22.3%</td>
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<tr>
<td>20.4%</td>
<td>20.3%</td>
<td>22.2%</td>
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<td>14.5%</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

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