

Forouzanfar MH, Liu P, Roth GA, et al. Global burden of hypertension and systolic blood pressure of at least 110 to 115 mm Hg, 1990-2015. *JAMA*. doi:10.1001/jama.2016.19043

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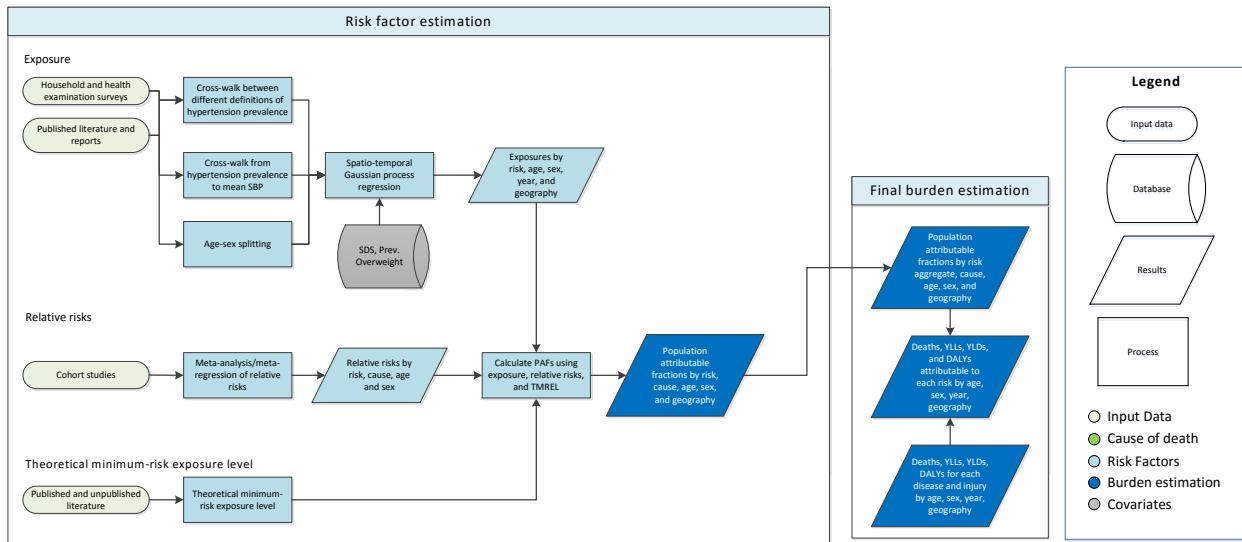
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This supplementary material has been provided by the authors to give readers additional information about their work.

Overview and methods

Flowchart



Overview of the comparative risk assessment

Conceptually, the comparative risk assessment approach evaluates how much of the burden of disease observed in a given year can be related to past exposure to a risk. The related burden is estimated by comparing observed health outcomes to those that would have been observed if an alternative or counterfactual level exposure had occurred in the past. Given that elevated SBP leads to different health outcomes, assessments are undertaken separately for outcomes such as ischemic heart disease. To the extent possible, each step of this process is standardized to enhance the comparability of results across risks, outcomes, populations and time.

We estimated the total attributable burden for risk factor j in age group a , sex s , country c and year t where $Burden_{oasct}$ is the number of burden (deaths or DALYs) for cause o (of w relevant outcomes of the risk factor), PAF_{oasct} is the population attributable fraction (PAF) for cause o related to the risk factor in age group a , sex s , country c and year t using equation 1:

$$Total\ related\ burden_{asct} = \sum_{o=1}^w Burden_{oasct} \times PAF_{oasct} \quad equ. 1$$

The PAF of every outcome related to a risk was calculated as in equation 2:

$$PAF_{asct} = \frac{\int_{x=l}^u RR_{as}(x)P_{asct}(x)dx - RR_{as}(TMREL)}{\int_{x=l}^u RR_{as}(x)P_{asct}(x)dx} \quad equ. 2$$

To estimate burden in a country, age, sex, year, outcome by level of SBP, we preserved the curve of PAF (in the equation above) by the level of SBP between 50 and 300 mm Hg so that the sum of the area

under the whole range of bins would be equal to the PAF. The contribution of different levels of SBP in the overall SBP PAF, for example above 140 mmHg, can be calculated simply by finding the area under the curve above 140 mmHg.

The equations highlight the four key components by cause, age, sex, country and year that go into estimating the burden related to a risk factor: the number of deaths, YLLs, YLDs or DALYs; exposure to levels of SBP; relative risk of a given outcome related to SBP; and the counterfactual level of SBP exposure. In the comparative risk assessment approach, the counterfactual level of risk exposure is selected to be the risk exposure that minimizes overall risk and is theoretically possible (Theoretical Minimum Risk Exposure Level [TMREL]) (Murray and Lopez 1999). The intention is to quantify how much the disease burden could be lower by SBP to the level that would lead to the greatest improvement in a person's health, which can then be summed over the population to calculate the overall deviation of the population from a TMREL. The GBD 2015 provides the rates of mortality, YLLs, YLDs and DALYs by cause (GBD 2015 Mortality and Causes of Death Collaborators; GBD 2015 Disease and Injury Incidence and Prevalence Collaborators; GBD 2015 DALYs and HALE Collaborators). Here we focus on the data and methods used to estimate the level of exposure, relative risks (RRs), and TMREL for SBP > 110-115 mm Hg.

For the current assessment focused on the risk of SBP > 110-115 mm Hg, outcomes based on four criteria were included. The criteria for inclusion of risk-outcome pairs take into account the evidence from epidemiological studies supporting a causal relationship between SBP and the outcome and available data to estimate effect sizes per unit of exposure increase; and evidence that these effects can be generalized to a general population. Following the GBD 2010, we have adopted the World Cancer Research Fund grading of evidence supporting the causal relationship between risk factor exposure and an outcome. We assessed the evidence of causal association for all risks including elevated SBP and reported these the table below. Please see Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015 for more details.

Epidemiological evidence supporting causality for risk-outcome pairs included in the Global Burden of Disease Study 2015

If multiple reports existed from one study, we counted them as one study. We only assessed the dose-response relationship for continuous risks. To evaluate the magnitude of the effect size for continuous risks,

we evaluated the RR comparing the 75th percentile with the 25th percentile of the exposure distribution at the global level.

RCT=randomized controlled trial. RR=relative risk. *Prospective cohort studies or non-randomised interventions. †Whether there is any biologic or mechanistic pathway that could potentially explain the relationship of the risk-outcome pair. ‡Whether the risk is associated with another outcome from the same category and there is evidence that it can cause the current outcome through the same pathway.

Risk	Outcome	RCTs (n)	RCTs with significant effect in the opposite direction (%)	RCTs with null findings (%)	Prospective observational studies (n)*	Prospective observational studies with significant association in the opposite direction (%)	Lower limit of RR > 1.5	Dose-response relationship	Biologic plausibility†	Analogy‡
High systolic blood pressure ¹	Rheumatic heart disease	0	..	..	62	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Ischemic heart disease	56	0	..	88	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Ischemic stroke	54	0	..	150	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Hemorrhagic stroke	54	0	..	150	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Cardiomyopathy and myocarditis	0	..	..	62	..	Yes	Yes	Yes	Yes
High systolic blood pressure ²	Atrial fibrillation and flutter	20	5	60	88	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Aortic aneurysm	0	..	..	62	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Peripheral vascular disease	0	..	..	88	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Endocarditis	0	..	..	62	..	Yes	Yes	Yes	Yes
High systolic blood pressure	Other cardiovascular and circulatory diseases	0	..	..	88	..	No	Yes	Yes	Yes
High systolic blood pressure ³	Chronic kidney disease	8	..	..	88	..	Yes	Yes	Yes	No

Footnotes

- 1 Evidence on the relationship of high systolic blood pressure with rheumatic heart disease, cardiomyopathy and myocarditis, aortic aneurysm, endocarditis, and other cardiovascular diseases came from a pooled cohort analysis (PSC)
- 2 Evidence on the relationship of high systolic blood pressure with atrial fibrillation and peripheral vascular disease was from two pooled cohort analysis (APCSC and PSC)
- 3 Chronic kidney disease included chronic kidney disease due to diabetes mellitus, hypertension, glomerulonephritis, or other causes

Citations for table above:

Outcome(s)	Citation
Rheumatic heart disease	Singh GM, Danaei G, Farzadfar F, et al. The age-specific quantitative effects of metabolic risk factors on cardiovascular diseases and diabetes: a pooled analysis. PLoS ONE 2013; 8: e65174.
Ischemic heart disease	
Ischemic stroke	
Hemorrhagic stroke	
Hypertensive heart disease	
Cardiomyopathy and myocarditis	
Atrial fibrillation and flutter	
Aortic aneurysm	
Peripheral vascular disease	
Endocarditis	
Other cardiovascular and circulatory diseases	
Ischemic heart disease	Thomopoulos C, Parati G, Zanchetti A. Effects of blood pressure lowering on outcome incidence in hypertension. 1. Overview, meta-analyses, and meta-regression analyses of randomized trials. J Hypertens 2014; 32: 2285–95.
Ischemic stroke	
Hemorrhagic stroke	
Hypertensive heart disease	
Atrial fibrillation and flutter	Emdin CA, Callender T, Cao J, Rahimi K. Effect of antihypertensive agents on risk of atrial fibrillation: a meta-analysis of large-scale randomized trials. Eur Eur Pacing Arrhythm Card Electrophysiol J Work Groups Card Pacing Arrhythm Card Cell Electrophysiol Eur Soc Cardiol 2015; 17: 701–10.
Chronic kidney disease due to diabetes mellitus	The Renal Risk Collaboration, Foote C, Lin J, et al. The effect of Blood Pressure on Kidney Failure: a systematic review and meta-analysis in 2.7 million participants (unpublished).
Chronic kidney disease due to hypertension	
Chronic kidney disease due to glomerulonephritis	
Chronic kidney disease due to other causes	
Chronic kidney disease due to diabetes mellitus	Xie X, Atkins E, Lv J, et al. Effects of intensive blood pressure lowering on cardiovascular and renal outcomes: updated systematic review and meta-analysis. Lancet Lond Engl 2016; 387: 435–43.
Chronic kidney disease due to hypertension	
Chronic kidney disease due to glomerulonephritis	
Chronic kidney disease due to other causes	
Atrial fibrillation and flutter, peripheral vascular disease	Evidence on the relationship of high systolic blood pressure with atrial fibrillation and peripheral vascular disease was from two pooled cohort analysis (APCSC and PSC)
Rheumatic heart disease, cardiomyopathy and myocarditis, aortic aneurysm, endocarditis, and other cardiovascular diseases	Evidence on the relationship of high systolic blood pressure with rheumatic heart disease, cardiomyopathy and myocarditis, aortic aneurysm, endocarditis, and other cardiovascular diseases came from a pooled cohort analysis (PSC)

Modeling strategy for systolic blood pressure level in the population

Consistent with GBD 2013, we utilized data on mean systolic blood pressure from literature and from household survey microdata and reports (e.g. STEPS, NHANES). Details and citation information for the data sources used are provided in searchable form through a new web-tool (<http://ghdx.healthdata.org/>). In GBD 2013, a systematic review of the literature was completed to capture population survey data on mean systolic blood pressure. For GBD 2015, we updated the systematic review using the same strategy, drawing from the GHDx and Medline via PubMed. In total, we have utilized 844 sources corresponding to 36,727 unique data points.

Global Health Data Exchange Database

We systematically searched the Global Health Data Exchange (GHDx) for multi-country survey programs, national surveys, and longitudinal studies which provide measured individual level data on systolic blood pressure. The search was completed for systolic blood pressure, fasting plasma glucose, and blood cholesterol simultaneously, as many sources studying the other metabolic risks will often report mean blood pressure or hypertension prevalence.

Search Terms (Keywords): Blood pressure OR Blood glucose OR Glucose tests OR Cholesterol OR Cholesterol tests OR Hypercholesterolemia

Data Type: Survey OR Report

Search date: 2/6/2016

Literature Review

We systematically searched PubMed for articles published between 15 July 2009 and 31 December 2015 which provided national or subnational estimates of mean systolic blood pressure. As above, the literature review was completed for systolic blood pressure, fasting plasma glucose, and blood cholesterol simultaneously for the reasons previously stated.

Search terms:

(("hypertension"[Mesh:NoExp] OR "blood pressure"[Mesh:NoExp] OR "Hyperlipidemias"[Mesh:NoExp] OR "Hypercholesterolemia"[Mesh] OR "Cholesterol"[Mesh] OR "diabetes mellitus"[Mesh:NoExp] OR "diabetes mellitus, type 2"[Mesh] OR "glucose"[Mesh] OR "hyperglycemia"[Mesh] OR "prediabetic state"[Mesh]) AND "Geographic Locations"[Mesh] NOT "United States"[Mesh]) AND ("humans"[Mesh] AND "adult"[MeSH]) AND ("Data Collection"[Mesh] OR "Health Services Research"[Mesh] OR "Population Surveillance"[Mesh] OR "Vital statistics"[Mesh] OR "Population"[Mesh] OR "Epidemiology"[Mesh] OR "surve*"[TiAb]) NOT Comment[ptyp] NOT Case Reports[ptyp] AND ("2009/07/15"[PDAT] : "2015/12/31"[PDAT]) NOT "hospital"[TiAb]

Search date: 1/26/2016

We explained the inclusion and exclusion process in the paper. Briefly, we only included studies in which the study design and sampling provided a representative and unbiased estimate of the whole population (of the geography). We excluded the study if it was done on specific populations or had a sampling method such as health care visitors, healthy (excluding current patients) people, and specific professions. We assumed the data is representative of the country if the geography was not related to

the diseases (a mining area) and if it is not an outlier compared to other data in the country or region. We down-weighted these non-representative data (those which are not outliers) in spatio-temporal Gaussian process regression (ST-GPR) across time and locations to 10% of country population-based studies. We included the data at the first place unless an assessment of the study method showed that the data is biased due to selection of information bias. Evaluating for possible outliers, a data point was considered to be an outlier candidate if the level is not consistent with other (sources) country data, or - if there are no other data points - not consistent with other country in the region. A candidate outlier source was scrutinized and validated and the data point was excluded if the quality of study did not warrant a valid estimate because of selection (specific populations), different definitions, other biases, or if the study did not provide methodological details for evaluation.

As explained in the text, epidemiological studies show a stronger association between systolic BP and outcomes rather than diastolic BP and to avoid double counting of the burden, only SBP burden was estimated and reported in GBD and this paper. Isolated high diastolic BP is associated with health outcomes, and we might have underestimated this part of burden based on the amount of isolated burden.

Estimating exposure to high SBP

We used ST-GPR to model the exposure to SBP > 110-115 mm Hg. This technique was applied to data for each country-age-sex-group to derive a complete time series. ST-GPR has been used for risk factors where the data density is sufficient to estimate a very flexible time trend. The approach is a stochastic modeling technique that is designed to detect signals amidst noisy data. It also serves as a powerful tool for interpolating non-linear trends (Rasmussen 2006; Vasudevan et al. 2009). Unlike classical linear models that assume that the trend underlying data follows a definitive functional form, GPR assumes that the specific trend of interest follows a Gaussian Process, which is defined by a mean function $m(\cdot)$ and a covariance function $Cov(\cdot)$. Specifically, let $p_{c,a,s,t}$ be the mean of SBP observed in country c , for age group a , and sex s at time t , equation 3:

$$\log(p_{c,a,s,t}) = g_{c,a,s}(t) + \epsilon_{c,a,s,t} \quad \text{equ. 3}$$

where

$$\begin{aligned} \epsilon_{c,a,s,t} &\sim Normal(0, \sigma_p^2), \\ g_{c,a,s}(t) &\sim GP\left(m_{c,a,s}(t), Cov\left(g_{c,a,s}(t)\right)\right). \end{aligned}$$

σ_p^2 represents the error variance in log space, which is the sum of the squared standard error of the observed data point and the prediction error from the cross-walk models (if applicable). The error variance was transformed into log-space using the delta method approximation as follows, equation 4:

$$\sigma_p^2 \cong \frac{\sigma_{p'}^2}{p_{c,a,s,t}^2} \quad \text{equ. 4}$$

where $\sigma_{p'}^2$ represents the error variance in normal space. The derivation of the mean and covariance functions, $m_{c,a,s}(t)$ and $Cov\left(g_{c,a,s}(t)\right)$, is described below.

Estimating SBP mean function

We estimated the mean function using a two-step approach. To be more specific, $m_{c,a,s}(t)$ can be expressed as, equation 5:

$$\log(p_{c,a,s}(t)) = X_{c,a,s}\beta + h(r_{c,a,s,t}) \quad \text{equ. 5}$$

where $X\beta$ is the summation of the components of a linear regression, including the intercept and the product of covariates with their corresponding fixed effect coefficients, and $h(r_{c,a,s,t})$ is a smoothing function for the residuals, $r_{c,a,s,t}$, derived from the linear model (Ng, Freeman, et al. 2014a). We used lag-distributed income, population density, prevalence of overweight, kilocalories per capita from vegetables, kilocalories per capita from fruits, mean daily sodium intake, and urbanicity as covariates in our linear model.

While the linear component captures the general trend in mean SBP over time, much of the data variability was still not adequately accounted for. To address this, we fit a locally weighted polynomial regression (LOESS) function $h(r_{c,a,s,t})$ to systematically estimate this residual variability by borrowing strength across time, age, and space patterns (the spatio-temporal component of ST-GPR). The time adjustment parameter, defined by λ , aims to borrow strength from neighboring time points (i.e. the exposure in this year is highly correlated with exposure in the previous year but less so further back in time). The age adjustment parameter, defined by ω , borrows strength from data in neighboring age groups. The space adjustment parameter, defined by ξ , aims to borrow strength across countries within the same region. For this analysis, $\lambda = 2.0$, $\omega = 0.2$, and $\xi = 0.9$.

Let $w_{c,a,s,t}$ be the final weight assigned to observation $r_{c,a,s,t}$ with reference to a focal observation r_{c_0,a_0,s_0,t_0} . We first generated a preliminary weight $w'_{c,a,s,t}$ for smoothing over time, which was based on the scaled distance along the time dimension of the two observations, equation 6:

$$w'_{c,a,s,t} = \left(1 - \left(\frac{|t - t_0|}{1 + \max|t - t_0|}\right)^{\lambda}\right)^3 \quad \text{equ. 6}$$

Next, we calculated the weight $w''_{c,a,s,t}$ to smooth over age, which is based on a distance along the age dimension of two observations. For a point between the age a of the observation $r_{c,a,s,t}$ and a focal observation r_{c_0,a_0,s_0,t_0} , the weight is defined as follows, equation 7:

$$w''_{c,a,s,t} = \frac{1}{e^{\omega|a-a_0|}} \quad \text{equ. 7}$$

These combined weights were multiplied and further adjusted to account for geographic patterns. Specifically, we defined a geospatial relationship by categorizing data into three groups: 1) observations from the same country, 2) observations from different counties but the same GBD region, and 3) observations from different regions (but the same super region). This particular weighting strategy has been applied in various studies estimating time series of global indicators.(Ng, Fleming, et al. 2014)(Ng, Freeman, et al. 2014b) Weights for each category were derived as follows, equation 8:

- 1) If the observation $r_{c,t}$ belongs to the same country c_0 of the focal observation r_{c_0,t_0} , equation 8:

$$\text{equ. 8}$$

$$w_{c,a,st} = \frac{\xi(w'_{c,a,s,t} w''_{c,a,s,t})}{\sum_{c=c_0} (w'_{c,a,s,t} w''_{c,a,s,t})} \quad \forall c = c_0$$

- 2) If the observation $r_{c,t}$ belongs to a different country than the focal observation r_{c_0,t_0} , but both belong to the same region R, equation 9:

$$w_{c,a,s,t} = \frac{(1 - \xi)(w'_{c,a,s,t} w''_{c,a,s,t})}{\sum_{c \neq c_0} (w'_{c,a,s,t} w''_{c,a,s,t})} \quad \forall c \neq c_0 \cap R[c] = R[c_0] \quad \text{equ. 9}$$

- 3) If the observation $r_{c,t}$ belongs to a both different country c_0 and region $R[c_0]$ than the focal observation r_{c_0,t_0} , equation 10:

$$w_{c,a,s,t} = 0 \quad \forall R[c] \neq R[c_0] \quad \text{equ. 10}$$

If observations were representative below the country level, their final weights were further adjusted by a factor of 0.1. The final weights were then normalized such that the sum of weights across age, time, and geographic hierarchy for a reference group was 1.

Estimating SBP covariance function

The final input into GPR is the covariance function, which defines the shape and distribution of the trends. Here, we have chosen the Matern-Euclidian covariance function, which offers the flexibility to model a wide spectrum of trends with varying degrees of smoothness. The function is defined as follows, equation 11:

$$M(t, t') = \sigma^2 \frac{2^{1-v}}{\Gamma(v)} \left(\frac{d(t, t') \sqrt{2v}}{l} \right)^v K_v \left(\frac{d(t, t') \sqrt{2v}}{l} \right) \quad \text{equ. 11}$$

where $d(\cdot)$ is a distance function; σ^2 , v , l , and K_v are hyperparameters of the covariance function—specifically σ^2 is the marginal variance, v is the smoothness parameter that defines the differentiability of the function, l is the length scale, which roughly defines the distance between which two points become uncorrelated, and K_v is the Bessel function. Based on previous applications of ST-GPR, we approximated σ^2 by $MADN(r'_{c,t})$, which is the normalized absolute deviation of the residuals from the smoothing step for each country. Here, we have used the parameter specifications $v = 2$ and $l = 20$.

Prediction using GPR

Based on the specifications stated above, we integrated over $g_{c,t}(t_*)$ to predict the full time series of mean SBP for country c , age a , sex s , and the prediction time t_* , equation 12:

$$\log(p_{c,a,s}(t_*)) \sim N(m_{c,a,s,t}(t_*), \sigma_p^2 I + Cov(g_{c,a,s,t}(t_*))) \quad \text{equ. 12}$$

Random draws of 1000 samples were obtained from the distributions above for every country for a given indicator. The final estimated mean for each country was the mean of the draws. In addition, 95% uncertainty intervals were calculated by taking the 2.5 and 97.5 percentile of the sample distribution. The entire modeling process was performed in log space and back-transformed to obtain final estimates

in the original scale. The linear modeling process was implemented using the lmer4 package in R, and the ST-GPR analysis was implemented through the PyMC2 package in Python.

Estimating and adjusting standard deviation for SBP

In order to be consistent with the relative risk values, we adjusted the variance of SBP for regression dilution bias. Two main sources of variation at the individual level include measurement error, which is estimated by multiple measurements in one visit, and temporal noise, which represents variation across time in the level of SBP, for example, between days, seasons, and years. It is assumed that measurement and other sources of noise (referred to here as temporal), attenuate the effect size of SBP on cardiovascular disease. This is corrected for by converting BP to the “usual” value, taking out the measurement error and temporal variation. We estimated the proportion of measurement error and temporal variation using a mixed-effects analysis on individual records with multiple measurement in five studies including National Health and Nutrition Examination Survey, China Longitudinal Healthy Longevity Survey, Indonesia Family Life Survey, Philippines Cebu Longitudinal Health and Nutrition Survey, Mexican Family Life Survey, and China Health and Retirement Longitudinal Survey (China Center for Economic Research and Peking University, n.d.; California Center for Population Research (CCPR) et al., n.d.; Carolina Population Center, University of North Carolina at Chapel Hill et al., n.d.; Macro International, Inc et al., n.d.; Zeng et al., n.d.; National Center for Health Statistics, Centers for Disease Control and Prevention, and Westat, Inc, n.d.). In order to control for an aging effect in follow-up time, we included fixed effects indicating sex and age at the time of SBP measurement, equation 13:

$$y_{i,a,r,t} = \beta_1 I_i^{sex} + \sum_{j=1}^{13} \beta_{j+1} I_{a,j}^{age} + u_i + \eta_{r(i)} + \varepsilon_{t(i)} \quad equ. 13$$

$y_{i,a,r,t}$: The r^{th} measurement of SBP for individual i , taken at the age of a during survey year t

I_i^{sex} : Dummy indicator representing the gender for individual i (with men = 1, and women = 0)

$I_{a,j}^{age}$: Dummy indicators representing the age group an individual belongs to

β_1 : Fixed effect coefficient for sex

β_j : Fixed effect coefficient for each of the age dummy indicators

u_i : Random effect of individuals

$\eta_{r(i)}$: Random effect across multiple measurements nested in each individual (intra-individual)

$\varepsilon_{t(i)}$: Random effect across time nested in each individual (temporal)

Measurement error, represented by the variance of η_r , significantly varies across studies. Fortunately, the measurement error has already been controlled for because the majority of surveys report the average of multiple measurements for SBP. The size of temporal source variance compared to the total variance minus measurement error was quite stable across studies and was used for estimating variance to get the variance of the “usual” SBP level. We corrected the standard deviation of the SBP exposure distribution by multiplying the square root of the proportion of temporal variance to total variance after taking out the measurement error for each site and used the average of age-specific values across

different studies as a universal correction multiplier to standard deviation of SBP distribution for very country, sex, and year.

$$\text{Correction factor} = \text{average} \left(\left(\frac{\text{var}(\varepsilon_{t(i)})}{\text{var}(\varepsilon_{t(i)}) + \text{var}(u_i)} \right)^{1/2} \right)$$

The final correction values are in eTable 3 which shows the RR used by age for each outcome.

Relative risks

RRs for chronic kidney disease are from the Renal Risk Collaboration meta-analysis of 2.7 million individuals in 106 cohorts. For other outcomes, we used data from two pooled epidemiological studies: the Asia Pacific Cohort Studies Collaboration (APCSC) and the Prospective Studies Collaboration (PSC). For cardiovascular disease, epidemiological studies have shown that the RR associated with SBP declines with age, with the log (RR) having an approximately linear relationship with age and reaching a value of 1 between the ages of 100 and 120. RRs were reported per 10 mm Hg increase in SBP above TMREL value (115 mm Hg). So, the RR for SBP x would be, equation 15:

$$RR_x = RR^{(x-TMREL)} \quad \text{equ. 15}$$

The meta-regression produces 1000 draws of RRs for the standard GBD age groups (5 year intervals) and draws of RRs for every level of SBP in the population were calculated for PAF calculation.

We used Dismod-MR 2.0, GBD's Bayesian meta-regression tool, to pool effect sizes from included studies and generate a dose-response curve for each of the outcomes associated with high SBP (Flaxman, Vos, and Murray 2015) (Global Burden of Disease Study 2013 Collaborators 2015a) (Bell 2016). The tool enabled us to incorporate random effects across studies and include data with different age ranges. Let $y_{i,j}$ be an individual data point, i , reported in study j , the formulation of the mixed-effects model is presented below:

$$\log(y_{i,j}) \sim N(\mu_{i,j}, \sigma^2_{i,j}) \quad \text{equ. 16}$$

where

$$\mu_{i,j} = \nu_j + \frac{1}{B_{i,j} - A_{i,j}} \int_{A_{i,j}}^{B_{i,j}} f(a) da$$

$A_{i,j}$ and $B_{i,j}$ are the lower and upper bounds of the age range for a data point i from study j ; ν_j is the study random effect, which is assumed to be $N(0, \sigma_\nu^2)$; and $f(a)$ denotes the function of age corresponding to the data point i, j . More specifically,

$$f(a) = \frac{a_{k+1} - a}{a_{k+1} - a_k} f_k + \left(\frac{a - a_k}{a_{k+1} - a_k} \right) f_{k+1}$$

where in this case, a linear spline function and the knots are chosen through optimization.

Variance of $\log(y_{i,j})$ contains two components, presented below,

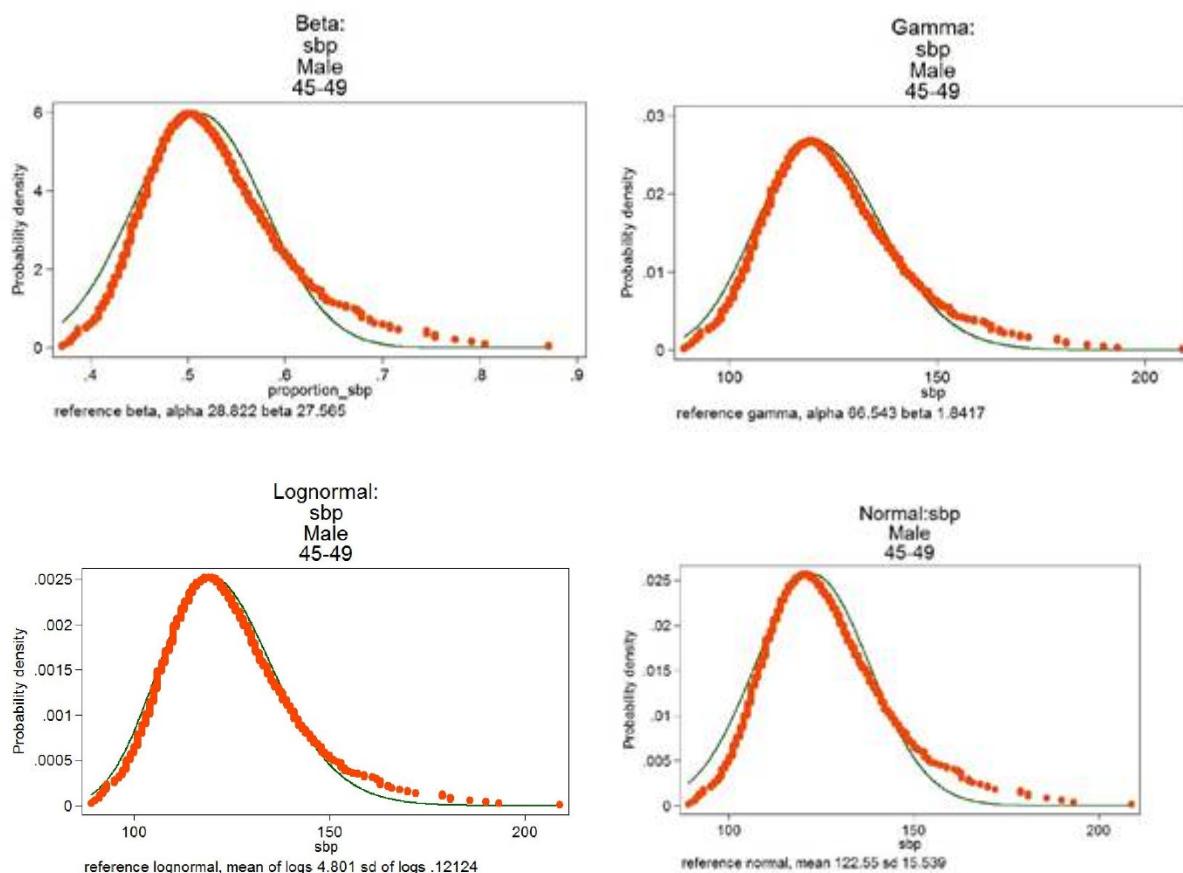
$$\sigma_{i,j}^2 = s_{i,j}^2 + \tau^2$$

where $s_{i,j}^2$ sampling uncertainty and τ^2 is the excess residual variance both in log space.

RRs were used universally for all countries and the meta-regression only helped to pool the three major sources and produce RRs with uncertainty and covariance across ages taking into account the uncertainty of the data points.

Distribution of SBP in the population

We evaluated the fit of SBP exposure data from NHANES to different distributions including gamma, normal, log-normal, and beta and found that log-normal fits the data best. We converted mean and standard deviation to log-normal parameters for use in PAF calculations. Below is an example of the data and fitted probably distribution for male, age 45-49.



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eTable 1. Relative risks used by age and by outcome for each 10 mmHg increase in systolic blood pressure. Numbers in parentheses are 95% uncertainty intervals.

	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
Rheumatic heart disease	1.631 (1.173 to 2.307)	1.474 (1.170 to 1.900)	1.317 (1.141 to 1.575)	1.229 (1.089 to 1.424)	1.211 (1.100 to 1.370)	1.193 (1.107 to 1.328)	1.175 (1.101 to 1.289)	1.157 (1.086 to 1.266)	1.139 (1.055 to 1.249)	1.127 (1.048 to 1.241)	1.120 (1.060 to 1.239)	1.104 (1.040 to 1.284)
Ischemic heart disease	1.972 (1.436 to 2.598)	1.818 (1.458 to 2.207)	1.665 (1.458 to 1.911)	1.568 (1.398 to 1.799)	1.527 (1.393 to 1.706)	1.487 (1.385 to 1.620)	1.446 (1.368 to 1.536)	1.405 (1.332 to 1.489)	1.364 (1.255 to 1.456)	1.330 (1.222 to 1.424)	1.303 (1.225 to 1.404)	1.266 (1.133 to 1.437)
Ischemic stroke	1.854 (1.394 to 2.590)	1.774 (1.426 to 2.253)	1.694 (1.404 to 2.036)	1.628 (1.353 to 1.950)	1.574 (1.359 to 1.825)	1.521 (1.360 to 1.700)	1.468 (1.344 to 1.598)	1.414 (1.301 to 1.524)	1.361 (1.214 to 1.490)	1.318 (1.168 to 1.452)	1.284 (1.177 to 1.390)	1.201 (1.108 to 1.370)
Hemorrhagic stroke	2.134 (1.554 to 2.919)	2.050 (1.593 to 2.661)	1.966 (1.588 to 2.465)	1.874 (1.491 to 2.303)	1.775 (1.481 to 2.117)	1.676 (1.446 to 1.934)	1.577 (1.399 to 1.755)	1.478 (1.330 to 1.619)	1.379 (1.207 to 1.540)	1.323 (1.162 to 1.495)	1.311 (1.192 to 1.450)	1.279 (1.126 to 1.519)
Cardiomyopathy and myocarditis	1.755 (1.265 to 2.424)	1.605 (1.290 to 2.012)	1.455 (1.277 to 1.642)	1.365 (1.229 to 1.511)	1.335 (1.222 to 1.449)	1.306 (1.218 to 1.394)	1.276 (1.211 to 1.342)	1.247 (1.182 to 1.304)	1.217 (1.131 to 1.285)	1.193 (1.116 to 1.264)	1.175 (1.119 to 1.238)	1.128 (1.071 to 1.237)
Atrial fibrillation and flutter	1.760 (1.336 to 2.430)	1.631 (1.377 to 2.027)	1.503 (1.396 to 1.644)	1.423 (1.340 to 1.505)	1.392 (1.328 to 1.458)	1.361 (1.313 to 1.411)	1.330 (1.293 to 1.369)	1.299 (1.266 to 1.333)	1.268 (1.233 to 1.309)	1.237 (1.201 to 1.277)	1.208 (1.176 to 1.238)	1.134 (1.092 to 1.185)
Aortic aneurysm	1.544 (1.258 to 2.169)	1.469 (1.290 to 1.818)	1.394 (1.299 to 1.538)	1.345 (1.226 to 1.452)	1.321 (1.232 to 1.405)	1.296 (1.229 to 1.362)	1.272 (1.218 to 1.327)	1.248 (1.191 to 1.299)	1.223 (1.160 to 1.286)	1.200 (1.137 to 1.262)	1.177 (1.126 to 1.230)	1.119 (1.071 to 1.185)
Peripheral vascular disease	1.728 (1.203 to 2.430)	1.491 (1.206 to 1.871)	1.254 (1.182 to 1.330)	1.138 (1.019 to 1.263)	1.142 (1.047 to 1.243)	1.146 (1.071 to 1.224)	1.150 (1.094 to 1.209)	1.154 (1.110 to 1.199)	1.159 (1.113 to 1.207)	1.152 (1.104 to 1.201)	1.136 (1.097 to 1.176)	1.095 (1.054 to 1.155)
Endocarditis	1.755 (1.265 to 2.424)	1.605 (1.290 to 2.012)	1.455 (1.277 to 1.642)	1.365 (1.229 to 1.511)	1.335 (1.222 to 1.449)	1.306 (1.218 to 1.394)	1.276 (1.211 to 1.342)	1.247 (1.182 to 1.304)	1.217 (1.131 to 1.285)	1.193 (1.116 to 1.264)	1.175 (1.119 to 1.238)	1.128 (1.071 to 1.237)
Other cardiovascular and circulatory diseases	1.744 (1.339 to 2.397)	1.624 (1.382 to 2.006)	1.504 (1.405 to 1.626)	1.427 (1.354 to 1.499)	1.395 (1.336 to 1.452)	1.363 (1.317 to 1.406)	1.330 (1.296 to 1.365)	1.298 (1.266 to 1.332)	1.265 (1.231 to 1.303)	1.235 (1.201 to 1.271)	1.207 (1.176 to 1.235)	1.137 (1.095 to 1.188)
Chronic kidney disease due to diabetes mellitus	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)	1.283 (1.186 to 1.397)
Chronic kidney disease due to glomerulonephritis	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)	1.281 (1.181 to 1.383)
Chronic kidney disease due to other causes	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)	1.282 (1.181 to 1.396)

Note: We assumed that all disease burden due to hypertensive heart disease and chronic kidney disease due to hypertension is related to high SBP because of the history of elevated blood pressure diagnosis, by definition, for these causes.

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals.

	Age	1990		2015	
		Male	Female	Male	Female
Global	25-29 years	116.0 (114.4 to 117.5)	111.6 (110.1 to 113.3)	119.6 (118.3 to 120.7)	114.3 (113.1 to 115.4)
Global	30-34 years	120.8 (119.6 to 122.2)	114.0 (112.8 to 115.2)	124.5 (123.4 to 125.7)	116.7 (115.6 to 117.8)
Global	35-39 years	121.5 (120.2 to 122.8)	115.8 (114.5 to 117.1)	125.3 (124.2 to 126.6)	118.5 (117.4 to 119.7)
Global	40-44 years	122.8 (121.6 to 124.1)	120.2 (118.9 to 121.5)	126.3 (125.0 to 127.7)	122.0 (120.6 to 123.2)
Global	45-49 years	125.6 (124.3 to 126.7)	123.9 (122.8 to 125.1)	128.8 (127.4 to 130.3)	125.7 (124.2 to 127.2)
Global	50-54 years	129.0 (127.8 to 130.3)	128.8 (127.5 to 129.9)	131.1 (129.8 to 132.4)	129.2 (127.9 to 130.5)
Global	55-59 years	132.2 (130.9 to 133.5)	132.3 (131.0 to 133.6)	133.9 (132.7 to 135.3)	132.7 (131.4 to 134.1)
Global	60-64 years	135.2 (133.9 to 136.5)	136.4 (135.2 to 137.7)	136.3 (135.0 to 137.9)	136.1 (134.7 to 137.5)
Global	65-69 years	137.9 (136.5 to 139.4)	140.6 (139.3 to 142.0)	138.4 (137.0 to 139.8)	139.4 (138.0 to 140.8)
Global	70-74 years	138.2 (136.7 to 139.8)	142.2 (140.7 to 143.7)	139.3 (137.9 to 140.5)	141.3 (140.0 to 142.7)
Global	75-79 years	140.8 (139.4 to 142.2)	144.9 (143.4 to 146.4)	140.7 (139.3 to 142.1)	142.3 (141.0 to 143.7)
Global	80+ years	141.6 (140.4 to 142.9)	147.1 (145.8 to 148.4)	140.8 (139.7 to 142.1)	143.5 (142.3 to 144.7)
Global	Age-standardized	126.8 (126.4 to 127.3)	125.1 (124.7 to 125.5)	129.4 (129.0 to 129.8)	126.2 (125.8 to 126.5)
China	25-29 years	109.7 (108.3 to 111.2)	105.9 (104.5 to 107.4)	122.9 (121.9 to 124.0)	115.5 (114.5 to 116.6)
China	30-34 years	112.2 (110.7 to 113.8)	106.2 (104.8 to 107.7)	126.5 (125.5 to 127.6)	117.5 (116.5 to 118.5)
China	35-39 years	113.3 (111.9 to 114.9)	107.6 (106.1 to 109.2)	127.8 (126.9 to 128.8)	119.7 (118.7 to 120.7)
China	40-44 years	114.5 (112.9 to 116.0)	112.6 (111.0 to 114.3)	129.2 (128.2 to 130.2)	122.9 (121.8 to 123.9)
China	45-49 years	116.7 (115.1 to 118.3)	114.5 (112.8 to 116.2)	130.7 (129.6 to 131.7)	126.7 (125.6 to 127.7)
China	50-54 years	121.0 (119.4 to 122.7)	120.8 (119.1 to 122.7)	132.5 (131.4 to 133.5)	130.5 (129.4 to 131.6)
China	55-59 years	125.3 (123.6 to 127.0)	123.8 (121.9 to 125.6)	135.6 (134.6 to 136.6)	133.9 (132.8 to 135.0)
China	60-64 years	128.7 (127.0 to 130.5)	127.3 (125.4 to 129.1)	137.6 (136.4 to 138.6)	137.3 (136.1 to 138.5)
China	65-69 years	131.6 (129.8 to 133.5)	132.8 (130.7 to 134.8)	140.3 (139.1 to 141.5)	141.9 (140.8 to 143.2)
China	70-74 years	134.4 (132.4 to 136.3)	134.5 (132.5 to 136.6)	141.2 (140.0 to 142.4)	143.7 (142.5 to 144.9)
China	75-79 years	135.6 (133.6 to 137.7)	136.1 (134.1 to 138.3)	142.3 (141.2 to 143.5)	142.9 (141.5 to 144.3)
China	80+ years	134.3 (132.4 to 136.1)	139.1 (136.9 to 141.3)	142.5 (141.3 to 143.9)	143.7 (142.4 to 145.1)
China	Age-standardized	119.5 (119.0 to 120.0)	117.1 (116.7 to 117.6)	131.5 (131.2 to 131.9)	127.3 (127.0 to 127.7)
North Korea	25-29 years	115.6 (108.4 to 123.7)	112.8 (105.1 to 120.8)	116.7 (110.6 to 122.6)	114.3 (107.8 to 120.8)
North Korea	30-34 years	119.7 (112.1 to 127.8)	114.1 (106.1 to 122.3)	122.0 (116.2 to 128.3)	116.6 (110.4 to 122.8)
North Korea	35-39 years	120.7 (113.1 to 128.2)	115.7 (107.3 to 123.9)	122.8 (116.4 to 129.3)	117.6 (110.9 to 124.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
North Korea	40-44 years	121.1 (113.4 to 129.2)	119.0 (111.3 to 127.7)	123.1 (116.9 to 129.5)	120.6 (113.8 to 127.4)
North Korea	45-49 years	124.1 (116.2 to 132.4)	121.2 (112.7 to 130.0)	125.2 (118.2 to 132.1)	122.3 (115.5 to 129.4)
North Korea	50-54 years	127.1 (118.8 to 135.0)	125.3 (115.9 to 134.0)	127.6 (120.9 to 134.8)	125.7 (118.8 to 132.8)
North Korea	55-59 years	134.3 (126.1 to 143.1)	131.6 (121.8 to 141.8)	135.5 (128.8 to 142.9)	132.9 (125.4 to 140.6)
North Korea	60-64 years	136.6 (127.9 to 145.6)	134.5 (125.4 to 144.4)	137.7 (130.4 to 145.3)	136.2 (128.2 to 144.4)
North Korea	65-69 years	138.0 (128.8 to 147.3)	138.0 (128.3 to 149.4)	138.4 (129.3 to 147.5)	138.9 (129.4 to 148.9)
North Korea	70-74 years	139.0 (130.0 to 148.2)	139.5 (129.7 to 150.5)	138.6 (129.4 to 148.3)	140.3 (130.1 to 151.1)
North Korea	75-79 years	140.4 (130.5 to 149.8)	141.3 (130.9 to 151.3)	140.4 (131.0 to 150.5)	141.7 (131.4 to 151.9)
North Korea	80+ years	139.7 (130.3 to 149.8)	142.6 (132.3 to 153.4)	140.8 (131.8 to 150.8)	142.5 (132.9 to 152.6)
North Korea	Age-standardized	126.3 (123.8 to 128.8)	123.8 (121.0 to 126.3)	127.6 (125.5 to 129.7)	125.1 (122.9 to 127.3)
Taiwan	25-29 years	115.8 (110.1 to 122.5)	107.7 (102.3 to 113.2)	109.2 (102.5 to 115.8)	104.4 (97.8 to 111.8)
Taiwan	30-34 years	119.9 (113.9 to 126.4)	110.1 (104.4 to 115.7)	114.5 (107.7 to 121.6)	106.7 (99.8 to 113.8)
Taiwan	35-39 years	121.4 (114.7 to 128.1)	112.4 (106.3 to 118.9)	115.3 (108.0 to 123.0)	108.7 (101.5 to 116.6)
Taiwan	40-44 years	121.8 (115.9 to 128.6)	115.4 (109.6 to 121.8)	120.5 (113.8 to 128.2)	115.8 (108.4 to 123.4)
Taiwan	45-49 years	125.1 (118.5 to 132.3)	121.8 (115.7 to 128.4)	123.2 (115.6 to 131.1)	119.6 (111.9 to 127.4)
Taiwan	50-54 years	128.5 (121.7 to 135.4)	126.0 (118.3 to 133.3)	125.4 (118.1 to 133.3)	122.6 (115.0 to 130.6)
Taiwan	55-59 years	131.0 (124.5 to 137.9)	129.3 (122.3 to 136.2)	127.9 (120.6 to 135.8)	126.0 (117.9 to 134.5)
Taiwan	60-64 years	133.2 (125.7 to 140.3)	132.9 (125.7 to 140.5)	129.9 (121.9 to 138.1)	128.9 (120.5 to 137.3)
Taiwan	65-69 years	136.6 (129.5 to 143.7)	139.0 (131.9 to 146.9)	132.5 (124.8 to 140.4)	132.1 (124.1 to 141.0)
Taiwan	70-74 years	136.0 (129.0 to 143.6)	138.6 (131.9 to 145.7)	132.3 (124.7 to 140.1)	133.0 (125.0 to 141.5)
Taiwan	75-79 years	136.7 (129.6 to 144.8)	140.4 (133.6 to 147.4)	134.8 (127.2 to 142.7)	134.6 (126.4 to 143.7)
Taiwan	80+ years	135.4 (128.4 to 143.0)	140.6 (133.9 to 147.7)	134.1 (125.7 to 142.3)	135.1 (126.9 to 143.7)
Taiwan	Age-standardized	125.7 (123.7 to 127.8)	121.5 (119.5 to 123.4)	121.8 (119.4 to 124.0)	118.2 (116.0 to 120.7)
Cambodia	25-29 years	113.9 (109.8 to 118.4)	107.7 (103.0 to 112.4)	114.7 (112.1 to 117.6)	105.9 (103.2 to 108.5)
Cambodia	30-34 years	119.3 (114.5 to 124.1)	110.1 (105.7 to 114.8)	120.1 (117.6 to 122.9)	108.3 (105.7 to 111.2)
Cambodia	35-39 years	119.9 (115.4 to 124.7)	111.8 (107.0 to 116.8)	120.8 (118.0 to 123.7)	109.9 (107.2 to 112.5)
Cambodia	40-44 years	120.3 (115.7 to 124.9)	114.5 (109.8 to 119.6)	121.2 (118.3 to 124.0)	112.7 (110.1 to 115.6)
Cambodia	45-49 years	122.8 (118.0 to 127.6)	118.0 (113.2 to 122.6)	123.7 (121.0 to 126.5)	115.9 (113.0 to 118.8)
Cambodia	50-54 years	125.0 (120.2 to 129.6)	121.2 (116.1 to 126.6)	125.9 (123.1 to 128.7)	118.8 (115.7 to 121.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Cambodia	55-59 years	127.5 (122.7 to 132.6)	124.4 (119.0 to 130.1)	128.3 (125.4 to 131.5)	121.7 (118.5 to 124.5)
Cambodia	60-64 years	129.6 (124.8 to 134.7)	127.3 (121.8 to 133.0)	130.1 (127.3 to 133.1)	124.4 (121.2 to 127.4)
Cambodia	65-69 years	131.4 (126.4 to 136.5)	130.0 (124.7 to 135.9)	133.2 (128.0 to 138.4)	129.4 (124.0 to 135.0)
Cambodia	70-74 years	132.0 (126.8 to 137.2)	131.1 (125.2 to 136.8)	133.4 (128.4 to 138.7)	130.6 (125.2 to 136.1)
Cambodia	75-79 years	133.7 (128.8 to 138.9)	133.1 (127.5 to 139.2)	135.3 (130.3 to 140.4)	132.6 (127.1 to 138.4)
Cambodia	80+ years	134.1 (129.1 to 139.4)	134.6 (128.7 to 140.7)	135.2 (130.2 to 140.5)	134.0 (127.7 to 139.7)
Cambodia	Age-standardized	123.3 (121.9 to 124.8)	118.4 (116.8 to 119.9)	124.3 (123.3 to 125.2)	116.6 (115.7 to 117.5)
Indonesia	25-29 years	117.2 (112.9 to 121.5)	113.8 (109.3 to 118.4)	119.6 (115.0 to 124.2)	114.8 (110.2 to 119.5)
Indonesia	30-34 years	122.6 (118.8 to 126.8)	118.2 (114.2 to 122.3)	125.0 (120.9 to 128.8)	118.5 (114.1 to 122.5)
Indonesia	35-39 years	123.3 (119.4 to 127.2)	122.0 (117.7 to 126.3)	126.4 (122.2 to 130.5)	122.4 (117.7 to 127.0)
Indonesia	40-44 years	125.9 (121.9 to 130.3)	125.6 (121.1 to 130.2)	128.0 (124.0 to 132.5)	127.6 (122.9 to 132.6)
Indonesia	45-49 years	129.0 (124.7 to 133.0)	131.1 (126.5 to 136.0)	131.0 (126.9 to 135.3)	131.9 (127.1 to 136.8)
Indonesia	50-54 years	131.9 (128.0 to 136.3)	135.6 (130.7 to 140.5)	135.2 (130.7 to 139.8)	135.8 (130.8 to 141.1)
Indonesia	55-59 years	136.1 (131.5 to 140.4)	139.7 (135.0 to 144.8)	138.3 (133.7 to 143.4)	140.0 (134.9 to 145.6)
Indonesia	60-64 years	140.4 (135.9 to 144.9)	146.6 (141.0 to 152.2)	141.0 (136.0 to 145.8)	144.6 (139.4 to 150.0)
Indonesia	65-69 years	142.1 (137.7 to 146.7)	150.7 (145.4 to 156.1)	144.6 (139.8 to 149.3)	150.6 (145.1 to 156.0)
Indonesia	70-74 years	142.6 (137.7 to 147.4)	153.8 (148.0 to 159.5)	147.0 (141.8 to 152.3)	153.3 (147.7 to 159.0)
Indonesia	75-79 years	147.5 (142.5 to 152.8)	157.6 (151.2 to 163.2)	150.0 (145.3 to 155.3)	155.9 (150.2 to 161.8)
Indonesia	80+ years	152.7 (147.5 to 157.9)	162.9 (157.3 to 168.9)	150.4 (145.2 to 155.6)	160.6 (154.7 to 166.7)
Indonesia	Age-standardized	130.1 (128.9 to 131.4)	132.0 (130.5 to 133.4)	132.4 (131.0 to 133.7)	132.2 (130.7 to 133.7)
Laos	25-29 years	118.2 (113.5 to 122.9)	115.1 (110.3 to 120.2)	120.1 (115.9 to 124.3)	114.6 (109.9 to 119.4)
Laos	30-34 years	123.3 (118.3 to 128.2)	117.9 (112.7 to 123.1)	125.6 (121.5 to 129.7)	117.3 (113.0 to 121.9)
Laos	35-39 years	123.6 (118.7 to 128.7)	119.9 (114.4 to 125.4)	125.9 (121.5 to 130.6)	119.4 (114.7 to 124.1)
Laos	40-44 years	124.0 (119.2 to 128.7)	123.0 (117.9 to 128.3)	126.2 (121.8 to 130.8)	122.4 (117.9 to 127.1)
Laos	45-49 years	126.6 (121.7 to 131.4)	126.4 (121.0 to 131.8)	129.0 (124.1 to 134.2)	125.9 (121.4 to 130.8)
Laos	50-54 years	129.4 (124.6 to 134.5)	130.1 (124.6 to 135.4)	131.6 (126.8 to 136.7)	129.3 (124.0 to 134.7)
Laos	55-59 years	134.2 (129.2 to 139.4)	134.3 (128.7 to 140.0)	136.2 (130.7 to 140.9)	133.3 (127.5 to 139.2)
Laos	60-64 years	136.6 (131.2 to 142.3)	137.6 (131.6 to 143.8)	138.5 (133.2 to 143.5)	136.4 (130.5 to 142.3)
Laos	65-69 years	138.4 (133.2 to 143.6)	140.4 (134.3 to 147.0)	140.2 (135.0 to 145.4)	139.6 (133.6 to 145.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Laos	70-74 years	139.1 (133.7 to 144.6)	142.1 (135.5 to 148.5)	140.5 (135.1 to 146.3)	140.9 (134.4 to 147.1)
Laos	75-79 years	140.9 (135.5 to 146.9)	144.1 (138.0 to 150.4)	141.9 (136.8 to 147.5)	142.6 (136.4 to 148.9)
Laos	80+ years	140.9 (135.6 to 146.6)	145.6 (139.2 to 151.6)	142.2 (136.8 to 147.5)	144.0 (138.0 to 150.7)
Laos	Age-standardized	128.3 (126.9 to 129.8)	127.3 (125.6 to 129.0)	130.3 (129.0 to 131.7)	126.5 (125.0 to 128.0)
Malaysia	25-29 years	117.7 (113.4 to 122.2)	114.4 (109.6 to 119.3)	125.4 (121.4 to 129.5)	120.8 (116.6 to 125.2)
Malaysia	30-34 years	124.7 (120.7 to 128.9)	118.1 (113.8 to 122.8)	131.3 (127.4 to 135.6)	123.5 (119.2 to 127.8)
Malaysia	35-39 years	125.4 (121.5 to 129.2)	119.8 (115.4 to 124.3)	132.1 (128.0 to 136.3)	125.1 (120.7 to 129.5)
Malaysia	40-44 years	125.7 (121.6 to 129.7)	123.0 (118.1 to 128.0)	132.3 (128.3 to 136.4)	128.2 (123.7 to 132.5)
Malaysia	45-49 years	128.4 (124.4 to 132.6)	126.5 (121.6 to 131.3)	135.1 (130.9 to 139.2)	132.0 (126.9 to 136.9)
Malaysia	50-54 years	131.4 (127.4 to 135.7)	130.8 (125.9 to 135.7)	137.5 (133.0 to 141.6)	135.3 (130.7 to 140.0)
Malaysia	55-59 years	135.8 (132.1 to 139.7)	137.3 (133.5 to 141.4)	139.9 (135.7 to 144.3)	138.7 (133.9 to 143.5)
Malaysia	60-64 years	137.8 (134.1 to 141.3)	140.4 (136.1 to 144.7)	141.9 (137.7 to 146.1)	141.7 (136.6 to 146.8)
Malaysia	65-69 years	140.0 (136.4 to 143.5)	143.7 (139.7 to 147.9)	144.1 (139.6 to 148.8)	144.5 (139.1 to 150.0)
Malaysia	70-74 years	139.8 (136.1 to 143.5)	144.3 (140.1 to 148.6)	143.7 (139.0 to 148.5)	145.2 (140.1 to 150.8)
Malaysia	75-79 years	140.9 (137.1 to 144.4)	145.5 (141.1 to 150.0)	144.8 (140.0 to 149.4)	146.1 (140.3 to 151.5)
Malaysia	80+ years	140.2 (136.7 to 143.9)	145.9 (141.7 to 150.2)	143.7 (138.7 to 149.0)	146.2 (140.7 to 151.6)
Malaysia	Age-standardized	129.4 (128.2 to 130.7)	128.1 (126.8 to 129.5)	135.3 (134.0 to 136.6)	132.1 (130.7 to 133.5)
Maldives	25-29 years	117.1 (112.8 to 121.6)	112.8 (108.0 to 117.9)	119.2 (115.3 to 123.2)	113.3 (109.1 to 117.5)
Maldives	30-34 years	122.4 (117.8 to 126.9)	115.6 (110.5 to 120.2)	124.5 (120.1 to 128.9)	116.2 (111.9 to 120.4)
Maldives	35-39 years	121.8 (117.4 to 126.5)	119.2 (114.0 to 124.7)	124.8 (120.5 to 129.3)	119.6 (114.9 to 124.3)
Maldives	40-44 years	122.6 (118.1 to 127.6)	122.8 (117.5 to 128.1)	125.1 (120.6 to 129.7)	123.2 (118.2 to 128.3)
Maldives	45-49 years	128.7 (123.7 to 133.7)	129.7 (124.0 to 135.3)	130.6 (125.8 to 135.5)	131.0 (125.9 to 136.4)
Maldives	50-54 years	131.9 (127.0 to 136.9)	134.1 (128.4 to 139.9)	133.4 (128.5 to 138.5)	134.8 (129.2 to 140.2)
Maldives	55-59 years	138.0 (133.0 to 143.2)	141.1 (135.1 to 148.3)	138.9 (133.8 to 144.4)	139.8 (134.3 to 145.3)
Maldives	60-64 years	140.5 (135.0 to 146.1)	145.1 (138.7 to 151.5)	141.4 (136.3 to 146.4)	143.1 (137.5 to 149.1)
Maldives	65-69 years	141.8 (136.4 to 147.3)	146.9 (140.3 to 153.6)	142.6 (137.0 to 148.3)	144.4 (138.1 to 150.9)
Maldives	70-74 years	142.4 (137.0 to 148.1)	148.9 (142.1 to 155.3)	142.7 (137.2 to 148.3)	145.9 (139.8 to 152.7)
Maldives	75-79 years	144.5 (139.2 to 150.2)	150.7 (143.7 to 157.8)	144.1 (138.4 to 150.2)	147.3 (140.4 to 153.7)
Maldives	80+ years	144.4 (138.8 to 150.0)	152.1 (145.6 to 159.2)	144.2 (138.4 to 149.6)	148.5 (142.4 to 155.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Maldives	Age-standardized	129.3 (127.7 to 130.8)	129.5 (127.8 to 131.3)	130.9 (129.5 to 132.4)	129.2 (127.7 to 130.7)
Mauritius	25-29 years	118.3 (115.7 to 120.7)	115.0 (112.0 to 117.8)	120.3 (115.5 to 124.9)	114.9 (109.9 to 120.0)
Mauritius	30-34 years	123.9 (121.4 to 126.3)	117.7 (115.0 to 120.6)	125.9 (121.2 to 130.5)	117.5 (112.5 to 122.6)
Mauritius	35-39 years	124.6 (122.1 to 127.2)	119.4 (116.7 to 122.6)	126.5 (121.4 to 131.4)	119.6 (114.4 to 124.7)
Mauritius	40-44 years	125.0 (122.4 to 127.6)	122.5 (119.5 to 125.5)	126.9 (122.0 to 131.7)	122.6 (117.0 to 128.0)
Mauritius	45-49 years	127.5 (125.0 to 130.1)	125.9 (122.8 to 129.2)	129.8 (124.9 to 134.7)	126.3 (121.0 to 132.5)
Mauritius	50-54 years	130.0 (127.4 to 132.6)	129.4 (126.2 to 132.6)	132.0 (127.4 to 137.2)	129.8 (124.5 to 135.3)
Mauritius	55-59 years	132.5 (129.8 to 135.2)	132.7 (129.4 to 136.0)	134.8 (129.8 to 140.1)	133.1 (127.4 to 139.4)
Mauritius	60-64 years	134.5 (132.0 to 137.2)	135.7 (132.3 to 139.2)	136.8 (131.7 to 142.0)	136.2 (130.5 to 142.1)
Mauritius	65-69 years	136.8 (134.0 to 139.7)	138.9 (135.5 to 142.5)	139.2 (134.2 to 144.3)	139.4 (133.6 to 145.4)
Mauritius	70-74 years	137.5 (134.5 to 140.4)	141.1 (137.3 to 145.2)	140.0 (135.0 to 145.3)	142.2 (135.8 to 148.8)
Mauritius	75-79 years	138.2 (134.4 to 141.8)	142.4 (138.0 to 146.9)	141.7 (136.1 to 147.4)	143.6 (137.2 to 150.2)
Mauritius	80+ years	137.7 (133.9 to 141.3)	142.9 (138.4 to 147.6)	141.2 (136.1 to 146.8)	144.7 (138.2 to 151.5)
Mauritius	Age-standardized	128.1 (127.3 to 128.9)	126.5 (125.6 to 127.5)	130.3 (128.7 to 131.8)	126.8 (125.3 to 128.4)
Myanmar	25-29 years	116.7 (112.5 to 121.4)	113.9 (109.4 to 118.6)	119.6 (116.4 to 122.7)	114.3 (111.2 to 117.5)
Myanmar	30-34 years	122.0 (117.7 to 126.5)	116.5 (111.7 to 121.7)	125.3 (121.8 to 128.8)	116.9 (113.8 to 120.1)
Myanmar	35-39 years	122.4 (117.8 to 126.9)	117.8 (113.1 to 123.2)	126.2 (122.8 to 129.5)	121.5 (118.2 to 124.7)
Myanmar	40-44 years	123.0 (118.5 to 127.7)	121.0 (116.2 to 126.5)	126.4 (123.0 to 130.1)	124.7 (121.3 to 128.2)
Myanmar	45-49 years	126.7 (122.1 to 131.4)	126.9 (121.5 to 132.5)	129.2 (125.8 to 132.8)	128.2 (124.3 to 131.8)
Myanmar	50-54 years	129.1 (124.3 to 134.1)	130.5 (125.3 to 135.8)	131.6 (127.7 to 135.7)	131.6 (128.2 to 135.4)
Myanmar	55-59 years	133.7 (128.8 to 138.9)	135.1 (130.0 to 140.7)	135.5 (131.7 to 139.2)	135.4 (131.7 to 139.1)
Myanmar	60-64 years	136.1 (130.9 to 141.5)	138.3 (131.7 to 144.2)	137.4 (133.6 to 141.2)	138.4 (134.7 to 142.3)
Myanmar	65-69 years	140.1 (134.6 to 145.4)	141.6 (136.0 to 147.9)	141.0 (136.0 to 146.5)	140.6 (135.1 to 146.4)
Myanmar	70-74 years	140.9 (135.7 to 146.6)	143.1 (136.9 to 149.4)	141.7 (137.0 to 147.7)	141.6 (135.6 to 147.3)
Myanmar	75-79 years	142.3 (136.7 to 148.0)	145.1 (139.1 to 151.4)	142.8 (137.0 to 147.8)	143.3 (137.2 to 149.4)
Myanmar	80+ years	142.1 (136.7 to 147.6)	146.8 (140.4 to 153.5)	142.7 (137.2 to 148.7)	144.8 (138.5 to 151.2)
Myanmar	Age-standardized	127.9 (126.5 to 129.3)	126.9 (125.3 to 128.5)	130.3 (129.2 to 131.5)	127.8 (126.7 to 129.1)
Philippines	25-29 years	116.9 (112.7 to 120.8)	113.6 (109.0 to 118.1)	116.2 (113.1 to 119.4)	111.6 (107.9 to 115.4)
Philippines	30-34 years	122.6 (118.4 to 126.7)	116.2 (111.7 to 121.1)	121.9 (118.9 to 125.1)	114.1 (110.9 to 117.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Philippines	35-39 years	125.3 (121.3 to 129.1)	117.9 (113.1 to 123.0)	122.5 (119.3 to 125.8)	116.0 (112.5 to 119.5)
Philippines	40-44 years	125.4 (121.5 to 129.6)	120.9 (116.2 to 125.6)	122.8 (119.6 to 126.1)	118.7 (115.0 to 122.4)
Philippines	45-49 years	128.0 (123.6 to 132.3)	124.7 (119.6 to 129.6)	125.4 (122.1 to 128.6)	122.2 (118.4 to 125.9)
Philippines	50-54 years	130.4 (126.1 to 134.8)	127.9 (122.9 to 133.0)	127.6 (124.5 to 131.1)	125.5 (121.5 to 129.4)
Philippines	55-59 years	132.7 (128.2 to 136.7)	131.3 (126.1 to 137.0)	130.1 (126.6 to 133.6)	128.2 (123.9 to 132.3)
Philippines	60-64 years	134.6 (130.2 to 139.2)	134.3 (129.3 to 139.8)	132.0 (128.6 to 135.4)	131.2 (127.2 to 135.5)
Philippines	65-69 years	136.5 (131.8 to 141.2)	137.1 (131.6 to 142.4)	134.0 (130.6 to 137.4)	134.2 (130.4 to 138.7)
Philippines	70-74 years	134.3 (129.3 to 139.3)	137.5 (131.9 to 143.4)	133.7 (130.3 to 137.2)	135.0 (130.6 to 138.9)
Philippines	75-79 years	134.7 (130.0 to 139.8)	138.6 (133.0 to 144.3)	134.7 (131.1 to 138.2)	136.1 (132.0 to 140.6)
Philippines	80+ years	134.1 (129.3 to 138.6)	139.1 (133.1 to 144.9)	134.0 (130.8 to 137.4)	136.6 (132.4 to 141.0)
Philippines	Age-standardized	127.6 (126.3 to 129.0)	124.8 (123.1 to 126.4)	125.7 (124.8 to 126.7)	122.4 (121.3 to 123.5)
Sri Lanka	25-29 years	119.1 (114.5 to 123.3)	115.5 (111.1 to 120.5)	120.6 (116.7 to 124.6)	115.5 (111.3 to 119.9)
Sri Lanka	30-34 years	124.7 (120.3 to 129.2)	118.2 (113.3 to 123.1)	126.3 (122.0 to 130.8)	118.3 (114.0 to 122.6)
Sri Lanka	35-39 years	124.8 (120.1 to 129.1)	120.5 (115.3 to 126.1)	127.7 (123.5 to 131.7)	121.3 (116.8 to 125.9)
Sri Lanka	40-44 years	125.4 (120.9 to 130.1)	123.8 (119.1 to 129.1)	127.9 (123.9 to 132.0)	124.4 (120.2 to 128.9)
Sri Lanka	45-49 years	127.9 (123.3 to 132.5)	127.1 (122.0 to 132.7)	130.6 (126.3 to 134.9)	127.9 (123.2 to 132.6)
Sri Lanka	50-54 years	130.2 (125.2 to 135.2)	130.2 (124.9 to 135.4)	133.0 (128.7 to 137.3)	131.2 (126.5 to 135.9)
Sri Lanka	55-59 years	132.0 (127.0 to 137.0)	132.3 (126.8 to 138.0)	135.5 (131.3 to 139.6)	134.4 (129.6 to 139.4)
Sri Lanka	60-64 years	134.2 (129.6 to 139.6)	135.3 (129.7 to 141.2)	137.7 (133.5 to 142.3)	137.2 (132.3 to 142.5)
Sri Lanka	65-69 years	136.8 (131.7 to 142.0)	137.9 (132.4 to 143.7)	139.9 (135.3 to 144.7)	140.1 (135.2 to 145.5)
Sri Lanka	70-74 years	137.3 (132.4 to 142.6)	138.8 (133.1 to 144.9)	139.9 (135.2 to 144.7)	141.0 (135.8 to 146.7)
Sri Lanka	75-79 years	140.9 (135.5 to 146.2)	142.7 (136.8 to 149.3)	141.2 (136.6 to 145.8)	142.1 (136.6 to 147.3)
Sri Lanka	80+ years	140.4 (135.5 to 145.6)	143.2 (137.3 to 149.6)	140.6 (136.1 to 145.3)	142.5 (137.3 to 148.2)
Sri Lanka	Age-standardized	128.5 (127.0 to 130.0)	126.9 (125.3 to 128.4)	130.9 (129.6 to 132.3)	127.7 (126.3 to 129.1)
Seychelles	25-29 years	118.8 (115.9 to 121.7)	114.9 (111.7 to 118.3)	121.8 (117.4 to 126.2)	113.0 (108.5 to 117.3)
Seychelles	30-34 years	124.5 (121.4 to 127.7)	117.7 (114.4 to 120.9)	127.6 (123.4 to 132.2)	115.7 (111.4 to 120.3)
Seychelles	35-39 years	129.6 (126.2 to 132.8)	123.6 (120.4 to 127.1)	128.2 (123.6 to 132.5)	119.6 (115.1 to 124.5)
Seychelles	40-44 years	130.1 (127.0 to 133.4)	127.0 (123.6 to 130.4)	128.7 (124.2 to 133.4)	123.0 (118.0 to 128.0)
Seychelles	45-49 years	135.7 (132.1 to 138.9)	133.4 (129.7 to 137.3)	134.3 (129.4 to 139.2)	130.0 (124.9 to 135.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Seychelles	50-54 years	138.3 (134.6 to 142.0)	137.0 (133.2 to 140.8)	137.2 (132.4 to 142.4)	133.7 (128.0 to 139.0)
Seychelles	55-59 years	142.3 (138.7 to 146.0)	141.7 (137.7 to 145.8)	141.3 (136.8 to 146.3)	137.0 (131.6 to 142.6)
Seychelles	60-64 years	144.6 (140.9 to 148.4)	144.9 (141.0 to 148.9)	143.4 (138.4 to 148.6)	140.3 (135.1 to 145.2)
Seychelles	65-69 years	145.0 (139.3 to 151.1)	146.2 (139.9 to 152.5)	145.0 (139.4 to 150.7)	142.7 (136.5 to 149.2)
Seychelles	70-74 years	145.5 (139.9 to 151.3)	147.5 (141.3 to 154.3)	145.1 (139.1 to 150.6)	144.2 (138.0 to 150.5)
Seychelles	75-79 years	147.6 (141.4 to 153.1)	149.4 (142.9 to 156.3)	147.0 (141.3 to 152.3)	146.1 (139.4 to 152.4)
Seychelles	80+ years	147.4 (142.1 to 153.6)	150.9 (144.4 to 158.2)	146.7 (140.9 to 152.5)	147.4 (141.4 to 154.0)
Seychelles	Age-standardized	134.0 (132.8 to 135.0)	131.5 (130.3 to 132.7)	134.0 (132.4 to 135.4)	128.2 (126.6 to 129.7)
Thailand	25-29 years	114.9 (110.7 to 119.0)	110.5 (105.8 to 115.1)	116.5 (113.5 to 120.0)	108.2 (104.7 to 111.7)
Thailand	30-34 years	119.1 (114.4 to 123.6)	113.6 (109.0 to 118.9)	121.2 (117.8 to 124.4)	113.7 (110.0 to 117.3)
Thailand	35-39 years	118.8 (115.1 to 122.4)	115.0 (110.1 to 119.8)	122.0 (118.6 to 125.4)	115.2 (111.7 to 118.9)
Thailand	40-44 years	118.9 (115.3 to 122.6)	118.4 (113.4 to 123.5)	122.2 (118.9 to 125.9)	118.2 (114.4 to 122.0)
Thailand	45-49 years	121.6 (117.5 to 125.7)	122.9 (117.9 to 127.7)	125.0 (121.3 to 128.4)	122.7 (118.5 to 126.6)
Thailand	50-54 years	124.0 (120.1 to 128.0)	126.3 (121.2 to 131.9)	127.3 (123.9 to 131.0)	125.9 (122.0 to 129.8)
Thailand	55-59 years	126.4 (122.4 to 130.6)	129.1 (123.9 to 134.5)	129.7 (126.4 to 133.2)	129.0 (124.7 to 133.2)
Thailand	60-64 years	128.1 (123.2 to 132.7)	131.8 (126.4 to 137.6)	131.4 (127.6 to 135.3)	130.0 (125.7 to 134.1)
Thailand	65-69 years	130.3 (125.7 to 135.1)	134.5 (129.2 to 140.3)	133.1 (129.3 to 136.9)	133.1 (128.8 to 137.7)
Thailand	70-74 years	130.5 (125.3 to 135.2)	135.9 (130.4 to 141.6)	134.2 (130.2 to 138.4)	135.2 (130.7 to 139.7)
Thailand	75-79 years	131.9 (127.0 to 137.3)	137.3 (131.7 to 143.5)	135.3 (131.4 to 139.1)	136.5 (132.0 to 141.2)
Thailand	80+ years	131.7 (126.8 to 136.9)	139.1 (133.1 to 145.2)	136.5 (132.0 to 141.0)	140.2 (135.3 to 145.4)
Thailand	Age-standardized	122.5 (121.2 to 123.8)	122.5 (120.9 to 124.0)	125.4 (124.4 to 126.5)	121.9 (120.7 to 123.1)
Timor-Leste	25-29 years	124.4 (119.6 to 129.3)	116.7 (111.8 to 121.8)	126.2 (124.2 to 128.4)	115.8 (114.1 to 117.5)
Timor-Leste	30-34 years	130.3 (125.0 to 135.1)	119.2 (113.8 to 124.6)	132.2 (129.8 to 134.6)	118.6 (116.6 to 120.6)
Timor-Leste	35-39 years	131.1 (125.9 to 136.0)	121.0 (115.7 to 126.5)	132.9 (130.1 to 135.7)	120.2 (118.0 to 122.4)
Timor-Leste	40-44 years	131.4 (126.2 to 136.4)	124.0 (119.0 to 129.6)	133.2 (130.6 to 135.7)	123.3 (121.1 to 125.5)
Timor-Leste	45-49 years	134.4 (129.5 to 139.7)	127.8 (122.3 to 133.2)	135.9 (133.1 to 138.8)	126.7 (124.2 to 129.0)
Timor-Leste	50-54 years	136.7 (131.5 to 141.5)	131.5 (125.5 to 137.1)	138.3 (135.1 to 141.6)	130.0 (127.4 to 132.8)
Timor-Leste	55-59 years	139.6 (134.0 to 145.1)	134.6 (128.5 to 140.7)	140.8 (137.5 to 144.2)	133.1 (130.0 to 136.4)
Timor-Leste	60-64 years	141.6 (136.2 to 147.0)	137.8 (132.1 to 143.7)	142.9 (139.2 to 146.8)	136.1 (132.7 to 139.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Timor-Leste	65-69 years	143.9 (138.2 to 149.6)	140.7 (134.9 to 147.4)	145.3 (142.1 to 148.7)	139.2 (136.1 to 142.2)
Timor-Leste	70-74 years	144.1 (138.7 to 149.8)	141.9 (136.2 to 148.3)	144.4 (138.5 to 150.1)	140.8 (135.1 to 146.9)
Timor-Leste	75-79 years	146.0 (140.4 to 151.6)	143.7 (137.5 to 149.9)	146.1 (140.3 to 151.7)	142.6 (136.6 to 149.2)
Timor-Leste	80+ years	146.3 (140.6 to 152.1)	145.6 (139.2 to 152.0)	146.4 (140.7 to 151.7)	144.1 (137.6 to 150.5)
Timor-Leste	Age-standardized	134.8 (133.2 to 136.4)	128.2 (126.5 to 129.9)	136.3 (135.3 to 137.2)	127.1 (126.3 to 128.0)
Vietnam	25-29 years	116.7 (112.7 to 121.0)	112.2 (107.5 to 116.8)	120.3 (116.6 to 124.2)	111.7 (107.6 to 116.0)
Vietnam	30-34 years	122.2 (117.9 to 126.6)	114.5 (110.1 to 118.9)	127.4 (123.6 to 131.5)	116.8 (113.0 to 121.1)
Vietnam	35-39 years	122.8 (118.8 to 127.0)	116.2 (111.7 to 121.0)	127.9 (123.9 to 131.8)	118.6 (114.5 to 122.8)
Vietnam	40-44 years	123.3 (118.9 to 127.9)	119.2 (114.6 to 124.2)	128.2 (124.3 to 132.3)	121.8 (117.7 to 125.9)
Vietnam	45-49 years	126.1 (121.5 to 130.6)	123.0 (118.3 to 127.8)	131.2 (127.2 to 135.1)	125.9 (121.1 to 130.4)
Vietnam	50-54 years	128.5 (124.0 to 133.1)	126.5 (121.6 to 131.7)	133.7 (129.6 to 138.0)	129.2 (124.6 to 133.8)
Vietnam	55-59 years	131.1 (126.6 to 135.7)	129.5 (124.4 to 134.6)	136.6 (132.5 to 140.8)	132.3 (127.5 to 136.8)
Vietnam	60-64 years	133.1 (127.9 to 137.9)	132.5 (127.3 to 137.7)	138.7 (134.6 to 143.1)	135.5 (131.1 to 140.1)
Vietnam	65-69 years	136.0 (131.2 to 140.8)	136.9 (131.7 to 142.2)	141.8 (137.7 to 146.0)	139.8 (135.0 to 144.6)
Vietnam	70-74 years	136.3 (131.7 to 141.7)	138.1 (132.8 to 143.9)	142.3 (137.6 to 146.9)	140.9 (135.9 to 146.3)
Vietnam	75-79 years	138.9 (134.1 to 143.9)	141.5 (136.0 to 147.5)	144.5 (139.6 to 149.6)	144.8 (138.8 to 150.8)
Vietnam	80+ years	138.4 (133.7 to 143.4)	142.1 (136.9 to 148.4)	144.2 (139.1 to 149.9)	145.6 (139.6 to 151.3)
Vietnam	Age-standardized	126.7 (125.4 to 128.1)	123.6 (122.1 to 125.1)	131.8 (130.5 to 133.1)	125.9 (124.6 to 127.2)
American Samoa	25-29 years	126.7 (121.6 to 132.1)	116.9 (111.7 to 122.6)	127.1 (121.8 to 132.5)	116.7 (111.8 to 122.1)
American Samoa	30-34 years	132.4 (126.5 to 138.4)	119.3 (114.0 to 125.1)	133.1 (127.7 to 138.5)	119.6 (114.3 to 125.0)
American Samoa	35-39 years	131.5 (125.8 to 137.2)	121.5 (115.8 to 127.2)	132.2 (126.8 to 137.7)	121.4 (116.7 to 126.9)
American Samoa	40-44 years	131.8 (126.2 to 138.0)	124.6 (118.7 to 130.3)	132.4 (126.6 to 137.9)	124.6 (119.5 to 130.2)
American Samoa	45-49 years	133.7 (128.0 to 139.7)	129.9 (123.8 to 136.5)	134.2 (128.8 to 139.6)	130.0 (124.5 to 136.1)
American Samoa	50-54 years	136.1 (130.1 to 142.5)	133.5 (127.6 to 139.3)	136.8 (131.4 to 142.3)	133.4 (127.5 to 139.2)
American Samoa	55-59 years	140.0 (134.2 to 146.5)	138.5 (131.9 to 145.4)	140.6 (134.9 to 146.6)	138.5 (132.1 to 144.6)
American Samoa	60-64 years	142.2 (135.9 to 149.1)	142.2 (135.3 to 148.9)	143.0 (136.9 to 149.2)	141.7 (135.4 to 148.0)
American Samoa	65-69 years	143.4 (137.2 to 150.5)	143.6 (137.0 to 150.7)	143.9 (137.2 to 150.7)	143.3 (136.2 to 150.7)
American Samoa	70-74 years	143.5 (136.9 to 149.8)	144.6 (137.4 to 152.4)	144.0 (137.3 to 150.7)	144.5 (137.1 to 151.6)
American Samoa	75-79 years	146.0 (139.1 to 153.1)	146.7 (139.7 to 154.8)	146.2 (139.4 to 153.8)	145.9 (138.3 to 153.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
American Samoa	80+ years	146.1 (139.0 to 152.6)	147.8 (140.6 to 154.8)	146.3 (139.6 to 153.4)	147.3 (139.9 to 154.9)
American Samoa	Age-standardized	135.4 (133.5 to 137.2)	129.9 (128.2 to 131.8)	135.9 (134.2 to 137.6)	129.8 (128.0 to 131.5)
Federated States of Micronesia	25-29 years	113.2 (109.2 to 117.6)	106.8 (102.7 to 111.1)	118.6 (113.4 to 124.1)	109.8 (104.7 to 114.7)
Federated States of Micronesia	30-34 years	118.4 (114.0 to 122.7)	108.9 (104.7 to 113.1)	123.9 (118.6 to 129.7)	112.2 (107.0 to 117.3)
Federated States of Micronesia	35-39 years	119.0 (114.8 to 123.6)	110.7 (106.7 to 114.8)	123.1 (117.4 to 129.0)	114.4 (109.3 to 119.7)
Federated States of Micronesia	40-44 years	119.4 (114.7 to 124.4)	114.0 (109.6 to 118.5)	123.3 (117.9 to 128.9)	117.7 (112.7 to 123.3)
Federated States of Micronesia	45-49 years	121.9 (117.4 to 126.9)	117.5 (113.4 to 121.9)	126.4 (120.9 to 132.1)	121.8 (116.5 to 127.4)
Federated States of Micronesia	50-54 years	124.9 (120.0 to 129.5)	121.4 (117.1 to 126.0)	128.8 (123.0 to 134.6)	125.2 (119.8 to 130.9)
Federated States of Micronesia	55-59 years	127.9 (123.0 to 133.0)	124.6 (119.8 to 129.3)	132.0 (126.3 to 138.2)	128.4 (122.4 to 134.2)
Federated States of Micronesia	60-64 years	129.8 (125.3 to 134.9)	127.6 (122.9 to 132.3)	133.9 (128.3 to 139.8)	131.3 (125.7 to 137.3)
Federated States of Micronesia	65-69 years	131.2 (126.2 to 136.5)	129.9 (125.3 to 134.8)	134.0 (128.4 to 140.4)	133.5 (127.2 to 140.6)
Federated States of Micronesia	70-74 years	132.2 (126.8 to 137.8)	130.4 (125.4 to 135.3)	136.1 (130.0 to 142.6)	135.8 (129.4 to 142.3)
Federated States of Micronesia	75-79 years	134.7 (129.3 to 140.0)	131.7 (127.0 to 136.7)	138.0 (131.6 to 144.5)	137.2 (130.8 to 144.2)
Federated States of Micronesia	80+ years	137.1 (130.6 to 143.7)	138.0 (131.4 to 145.2)	138.9 (132.0 to 145.9)	141.0 (134.2 to 148.1)
Federated States of Micronesia	Age-standardized	123.0 (121.7 to 124.5)	118.0 (116.7 to 119.4)	127.3 (125.6 to 128.9)	121.8 (120.1 to 123.5)
Fiji	25-29 years	122.0 (116.6 to 127.3)	116.3 (110.7 to 122.1)	123.1 (118.4 to 127.9)	116.4 (111.7 to 121.5)
Fiji	30-34 years	127.2 (121.5 to 133.6)	118.7 (112.4 to 124.6)	128.8 (124.1 to 133.7)	118.8 (113.9 to 123.8)
Fiji	35-39 years	125.0 (119.5 to 130.6)	119.1 (113.3 to 125.4)	126.1 (121.2 to 131.1)	119.2 (114.5 to 124.1)
Fiji	40-44 years	125.1 (119.5 to 130.7)	122.3 (116.8 to 128.5)	126.4 (121.4 to 131.4)	122.3 (117.3 to 127.6)
Fiji	45-49 years	126.7 (120.5 to 132.4)	127.2 (121.2 to 133.0)	128.0 (123.0 to 133.4)	127.4 (122.4 to 132.8)
Fiji	50-54 years	129.3 (123.4 to 135.1)	130.7 (124.1 to 137.1)	130.1 (124.9 to 135.5)	130.9 (125.6 to 136.7)
Fiji	55-59 years	130.5 (124.7 to 136.4)	136.8 (130.3 to 144.1)	131.5 (126.3 to 137.0)	137.2 (131.4 to 143.0)
Fiji	60-64 years	132.3 (126.3 to 138.4)	139.9 (133.4 to 146.8)	133.3 (128.2 to 138.8)	140.4 (134.3 to 146.3)
Fiji	65-69 years	133.8 (127.6 to 140.2)	142.3 (135.3 to 149.7)	135.2 (129.1 to 142.1)	141.8 (134.7 to 149.1)
Fiji	70-74 years	134.3 (127.9 to 140.5)	143.1 (136.1 to 150.4)	135.4 (129.2 to 141.8)	143.1 (136.3 to 150.2)
Fiji	75-79 years	136.3 (130.4 to 142.7)	145.1 (137.9 to 152.2)	137.7 (131.1 to 144.6)	144.4 (137.2 to 151.6)
Fiji	80+ years	136.6 (130.3 to 142.7)	146.5 (139.5 to 154.1)	137.7 (131.6 to 144.3)	145.9 (138.7 to 153.5)
Fiji	Age-standardized	128.2 (126.4 to 129.9)	128.1 (126.3 to 130.1)	129.3 (127.7 to 131.0)	128.2 (126.5 to 130.0)
Guam	25-29 years	116.4 (110.9 to 121.7)	107.6 (102.4 to 113.4)	121.4 (115.6 to 127.4)	110.9 (105.2 to 116.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Guam	30-34 years	121.0 (115.5 to 126.8)	109.0 (103.6 to 114.7)	126.9 (121.4 to 132.8)	113.0 (107.8 to 119.1)
Guam	35-39 years	121.9 (116.4 to 127.6)	111.3 (105.8 to 116.9)	126.7 (120.7 to 132.5)	115.3 (109.3 to 121.2)
Guam	40-44 years	122.8 (117.0 to 128.5)	115.0 (109.4 to 120.6)	127.3 (121.5 to 133.1)	118.4 (112.6 to 124.1)
Guam	45-49 years	125.5 (119.6 to 131.3)	119.0 (113.1 to 125.0)	129.8 (123.6 to 135.8)	122.6 (116.6 to 128.3)
Guam	50-54 years	128.6 (122.9 to 134.8)	123.4 (117.2 to 130.1)	132.0 (125.7 to 138.4)	125.9 (119.6 to 132.7)
Guam	55-59 years	132.3 (125.9 to 138.6)	127.1 (121.0 to 133.1)	135.2 (129.1 to 141.1)	129.8 (123.5 to 136.6)
Guam	60-64 years	134.1 (127.9 to 140.7)	131.2 (124.5 to 137.7)	137.2 (130.9 to 143.7)	133.1 (126.3 to 139.8)
Guam	65-69 years	135.7 (129.7 to 142.2)	134.2 (127.4 to 140.4)	138.6 (132.1 to 145.2)	136.3 (129.8 to 143.0)
Guam	70-74 years	136.1 (129.7 to 142.6)	135.2 (128.5 to 142.1)	139.4 (133.2 to 146.3)	138.1 (131.0 to 145.4)
Guam	75-79 years	139.3 (133.3 to 146.0)	134.5 (127.7 to 141.5)	141.9 (135.3 to 148.6)	134.9 (128.1 to 141.9)
Guam	80+ years	139.1 (132.8 to 145.5)	135.7 (129.3 to 142.3)	142.1 (135.4 to 149.2)	135.5 (128.8 to 142.3)
Guam	Age-standardized	126.5 (124.7 to 128.3)	119.6 (117.7 to 121.4)	130.6 (128.9 to 132.5)	122.6 (120.8 to 124.5)
Kiribati	25-29 years	119.4 (114.0 to 124.8)	109.3 (104.1 to 114.7)	120.6 (116.0 to 125.9)	109.6 (105.1 to 114.6)
Kiribati	30-34 years	124.9 (119.7 to 130.9)	111.7 (106.4 to 117.2)	126.0 (121.3 to 131.1)	112.4 (107.9 to 117.4)
Kiribati	35-39 years	124.1 (118.5 to 129.9)	114.4 (108.7 to 120.0)	125.2 (120.0 to 130.6)	115.0 (110.0 to 119.9)
Kiribati	40-44 years	124.3 (119.0 to 129.8)	117.2 (111.8 to 122.9)	125.4 (120.2 to 130.5)	118.0 (113.1 to 123.1)
Kiribati	45-49 years	124.0 (118.7 to 129.7)	118.3 (112.8 to 123.9)	125.2 (120.0 to 130.6)	119.0 (113.7 to 124.6)
Kiribati	50-54 years	126.6 (121.0 to 132.5)	121.6 (115.9 to 127.4)	127.4 (122.3 to 132.7)	121.9 (116.3 to 127.6)
Kiribati	55-59 years	130.9 (125.0 to 136.6)	123.9 (117.9 to 129.9)	131.7 (126.4 to 137.0)	124.2 (118.6 to 130.0)
Kiribati	60-64 years	132.9 (127.3 to 138.9)	126.8 (121.1 to 133.5)	133.8 (127.7 to 139.5)	127.1 (121.4 to 132.9)
Kiribati	65-69 years	134.5 (128.2 to 141.4)	129.5 (123.2 to 135.9)	135.3 (128.9 to 142.3)	129.8 (123.3 to 136.2)
Kiribati	70-74 years	134.7 (128.4 to 141.1)	130.3 (124.0 to 137.3)	135.8 (130.0 to 141.8)	130.6 (124.2 to 137.2)
Kiribati	75-79 years	136.9 (130.5 to 143.1)	131.2 (124.8 to 138.2)	137.8 (131.4 to 144.2)	130.8 (124.7 to 137.8)
Kiribati	80+ years	136.9 (130.8 to 143.3)	132.3 (125.8 to 138.9)	138.0 (131.8 to 144.4)	132.1 (125.5 to 138.8)
Kiribati	Age-standardized	127.0 (125.2 to 128.7)	119.2 (117.4 to 121.1)	128.0 (126.5 to 129.7)	119.7 (118.0 to 121.4)
Marshall Islands	25-29 years	113.3 (108.5 to 118.1)	105.4 (100.5 to 110.5)	117.2 (112.2 to 122.6)	107.8 (102.8 to 113.0)
Marshall Islands	30-34 years	118.5 (113.6 to 123.7)	107.5 (102.7 to 112.3)	122.6 (117.0 to 128.0)	110.3 (105.3 to 115.3)
Marshall Islands	35-39 years	119.1 (114.2 to 124.3)	110.4 (105.2 to 115.4)	122.6 (117.3 to 127.7)	113.0 (108.2 to 118.1)
Marshall Islands	40-44 years	119.8 (114.9 to 125.1)	113.6 (108.7 to 118.8)	122.9 (117.1 to 128.4)	115.9 (110.5 to 120.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Marshall Islands	45-49 years	124.5 (118.8 to 129.9)	117.6 (112.4 to 123.2)	127.4 (122.1 to 132.8)	119.6 (114.4 to 125.2)
Marshall Islands	50-54 years	127.5 (122.1 to 133.2)	121.8 (116.6 to 127.4)	129.6 (123.8 to 135.5)	123.1 (117.7 to 128.9)
Marshall Islands	55-59 years	129.2 (123.4 to 135.0)	129.3 (123.4 to 135.5)	131.8 (125.9 to 137.9)	130.4 (124.2 to 136.7)
Marshall Islands	60-64 years	131.2 (125.1 to 137.6)	133.2 (126.8 to 140.0)	133.3 (127.6 to 139.7)	133.9 (127.7 to 140.7)
Marshall Islands	65-69 years	133.2 (127.3 to 139.6)	136.1 (129.1 to 143.0)	135.2 (129.2 to 141.4)	136.6 (129.6 to 143.2)
Marshall Islands	70-74 years	133.4 (127.3 to 139.8)	137.2 (130.7 to 144.2)	135.9 (129.5 to 142.5)	138.0 (131.3 to 145.1)
Marshall Islands	75-79 years	135.8 (129.6 to 142.7)	137.2 (130.2 to 144.2)	138.0 (131.5 to 144.9)	136.6 (129.9 to 143.7)
Marshall Islands	80+ years	135.8 (129.5 to 142.0)	138.6 (132.0 to 145.2)	138.3 (132.2 to 144.8)	137.8 (131.0 to 144.5)
Marshall Islands	Age-standardized	123.9 (122.3 to 125.7)	119.3 (117.4 to 120.9)	127.0 (125.4 to 128.6)	121.0 (119.2 to 122.6)
Northern Mariana Islands	25-29 years	116.4 (111.2 to 122.2)	108.2 (102.8 to 113.9)	121.3 (115.8 to 127.2)	111.2 (105.9 to 116.9)
Northern Mariana Islands	30-34 years	121.0 (115.3 to 127.1)	109.5 (103.9 to 115.0)	126.7 (121.0 to 132.7)	113.6 (108.2 to 118.9)
Northern Mariana Islands	35-39 years	122.3 (116.8 to 127.8)	111.9 (106.4 to 117.9)	126.8 (121.0 to 132.6)	115.8 (109.6 to 121.5)
Northern Mariana Islands	40-44 years	123.2 (117.8 to 128.8)	115.7 (110.0 to 122.1)	127.3 (121.2 to 133.5)	119.2 (113.6 to 125.4)
Northern Mariana Islands	45-49 years	125.6 (120.3 to 131.3)	120.0 (114.3 to 125.6)	129.5 (124.3 to 135.6)	123.3 (117.3 to 129.9)
Northern Mariana Islands	50-54 years	128.9 (123.1 to 135.2)	124.3 (118.2 to 130.8)	131.8 (125.6 to 137.9)	126.6 (120.3 to 133.1)
Northern Mariana Islands	55-59 years	132.5 (126.7 to 138.8)	128.0 (121.6 to 134.1)	135.1 (128.6 to 141.9)	130.5 (123.9 to 137.4)
Northern Mariana Islands	60-64 years	134.6 (128.3 to 141.0)	132.2 (125.6 to 138.5)	137.2 (131.0 to 143.8)	133.7 (127.3 to 140.7)
Northern Mariana Islands	65-69 years	136.2 (129.9 to 143.1)	135.1 (128.8 to 141.8)	138.3 (132.3 to 144.5)	136.6 (130.0 to 143.6)
Northern Mariana Islands	70-74 years	136.4 (130.4 to 142.8)	135.8 (129.1 to 142.6)	139.2 (132.8 to 146.0)	138.0 (130.8 to 145.1)
Northern Mariana Islands	75-79 years	139.5 (132.3 to 146.4)	135.0 (128.5 to 141.6)	141.7 (135.2 to 148.6)	134.9 (128.9 to 141.5)
Northern Mariana Islands	80+ years	139.7 (132.8 to 146.6)	136.6 (129.8 to 143.9)	142.1 (135.6 to 148.8)	135.9 (129.1 to 143.0)
Northern Mariana Islands	Age-standardized	126.8 (124.9 to 128.5)	120.3 (118.6 to 122.1)	130.5 (128.7 to 132.4)	123.1 (121.2 to 124.9)
Papua New Guinea	25-29 years	110.4 (106.4 to 114.8)	105.5 (101.0 to 109.9)	115.6 (111.5 to 119.8)	112.1 (107.3 to 116.8)
Papua New Guinea	30-34 years	114.0 (109.8 to 118.7)	106.4 (102.1 to 110.6)	121.1 (116.7 to 125.6)	114.7 (109.5 to 119.5)
Papua New Guinea	35-39 years	115.8 (111.1 to 120.9)	108.0 (103.4 to 112.2)	121.8 (117.4 to 126.4)	116.2 (111.5 to 120.9)
Papua New Guinea	40-44 years	115.1 (109.8 to 120.3)	112.3 (107.3 to 117.4)	122.2 (117.8 to 126.7)	119.2 (114.2 to 124.3)
Papua New Guinea	45-49 years	116.6 (112.2 to 121.7)	116.9 (112.0 to 122.5)	124.5 (120.3 to 129.2)	122.6 (117.4 to 127.9)
Papua New Guinea	50-54 years	116.3 (111.5 to 121.5)	122.6 (116.7 to 128.6)	126.8 (122.0 to 131.6)	125.8 (120.4 to 131.2)
Papua New Guinea	55-59 years	124.2 (118.8 to 130.3)	128.4 (122.4 to 134.8)	129.3 (124.9 to 134.0)	128.6 (123.1 to 133.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Papua New Guinea	60-64 years	129.4 (123.7 to 135.1)	132.2 (126.0 to 139.0)	131.2 (126.5 to 136.4)	131.8 (126.4 to 137.5)
Papua New Guinea	65-69 years	131.0 (125.2 to 137.1)	134.4 (127.6 to 141.1)	132.7 (126.4 to 138.9)	134.0 (127.4 to 140.9)
Papua New Guinea	70-74 years	131.5 (125.6 to 137.6)	135.3 (129.2 to 142.0)	133.0 (126.9 to 139.5)	134.6 (127.8 to 141.3)
Papua New Guinea	75-79 years	133.2 (126.9 to 139.8)	137.0 (129.9 to 143.8)	134.9 (128.4 to 141.1)	136.3 (129.7 to 143.1)
Papua New Guinea	80+ years	133.4 (127.0 to 140.0)	138.5 (132.0 to 145.5)	135.0 (129.0 to 140.8)	137.7 (130.6 to 144.8)
Papua New Guinea	Age-standardized	119.4 (117.9 to 121.0)	118.4 (116.8 to 120.1)	125.0 (123.7 to 126.4)	122.8 (121.0 to 124.4)
Samoa	25-29 years	116.3 (113.9 to 118.8)	111.8 (109.8 to 113.7)	122.4 (117.5 to 127.8)	113.5 (108.1 to 119.0)
Samoa	30-34 years	121.7 (118.9 to 124.7)	114.4 (112.4 to 116.5)	128.1 (122.5 to 133.8)	116.2 (111.2 to 121.7)
Samoa	35-39 years	122.8 (119.7 to 125.9)	116.0 (114.0 to 118.2)	128.9 (123.2 to 134.4)	117.9 (112.3 to 123.9)
Samoa	40-44 years	123.0 (120.0 to 125.8)	119.0 (116.5 to 121.6)	129.2 (123.8 to 134.9)	120.9 (115.6 to 126.9)
Samoa	45-49 years	125.4 (122.1 to 128.6)	122.3 (119.8 to 124.9)	131.8 (125.8 to 137.5)	124.5 (118.6 to 130.7)
Samoa	50-54 years	127.9 (124.5 to 131.1)	125.6 (122.9 to 128.4)	134.2 (128.5 to 140.1)	127.9 (121.8 to 133.9)
Samoa	55-59 years	130.5 (126.8 to 134.1)	128.7 (125.8 to 131.8)	136.9 (130.8 to 142.8)	131.1 (125.4 to 136.9)
Samoa	60-64 years	132.5 (128.7 to 136.6)	131.8 (128.6 to 135.1)	138.8 (132.6 to 145.3)	133.7 (127.5 to 140.1)
Samoa	65-69 years	134.1 (130.2 to 138.4)	134.6 (131.1 to 138.3)	137.6 (131.1 to 143.9)	135.4 (128.7 to 142.1)
Samoa	70-74 years	134.0 (129.7 to 138.5)	135.3 (131.5 to 139.7)	136.1 (129.7 to 142.4)	135.6 (128.6 to 142.4)
Samoa	75-79 years	136.5 (130.1 to 142.9)	136.6 (129.8 to 143.6)	138.0 (131.5 to 145.0)	136.5 (129.8 to 143.3)
Samoa	80+ years	136.2 (129.5 to 142.8)	138.3 (132.2 to 145.6)	138.4 (131.8 to 145.2)	137.7 (130.7 to 144.5)
Samoa	Age-standardized	126.0 (125.0 to 127.0)	122.7 (121.9 to 123.5)	131.6 (129.6 to 133.3)	124.4 (122.5 to 126.3)
Solomon Islands	25-29 years	112.8 (107.5 to 118.2)	108.0 (102.7 to 113.4)	116.5 (111.6 to 122.4)	109.8 (104.5 to 115.3)
Solomon Islands	30-34 years	117.4 (112.3 to 122.8)	110.3 (104.9 to 116.1)	121.5 (116.4 to 127.0)	112.3 (107.5 to 117.5)
Solomon Islands	35-39 years	117.7 (112.2 to 123.7)	113.0 (107.5 to 118.6)	121.4 (116.2 to 126.6)	115.2 (109.4 to 120.9)
Solomon Islands	40-44 years	118.3 (113.1 to 124.1)	116.4 (110.8 to 122.1)	121.7 (116.3 to 127.4)	118.4 (112.8 to 124.5)
Solomon Islands	45-49 years	120.8 (115.5 to 126.7)	121.6 (116.0 to 127.8)	124.4 (119.1 to 130.0)	123.4 (117.8 to 129.2)
Solomon Islands	50-54 years	123.7 (118.5 to 129.8)	125.8 (119.1 to 132.4)	126.6 (120.8 to 132.6)	127.0 (121.1 to 133.3)
Solomon Islands	55-59 years	126.1 (120.3 to 131.7)	129.3 (123.2 to 136.1)	128.4 (122.5 to 134.4)	130.6 (124.3 to 137.3)
Solomon Islands	60-64 years	128.0 (122.7 to 133.8)	133.1 (126.7 to 140.1)	130.3 (124.6 to 136.1)	134.0 (127.2 to 141.2)
Solomon Islands	65-69 years	130.1 (124.0 to 136.5)	135.6 (128.9 to 142.3)	132.3 (126.1 to 138.5)	136.5 (129.6 to 143.5)
Solomon Islands	70-74 years	130.7 (124.9 to 136.9)	136.8 (129.8 to 144.1)	133.3 (127.3 to 140.0)	137.8 (130.5 to 144.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Solomon Islands	75-79 years	132.6 (126.0 to 138.5)	136.7 (130.2 to 143.7)	135.3 (129.4 to 142.1)	136.2 (129.6 to 143.8)
Solomon Islands	80+ years	132.8 (126.5 to 139.1)	138.1 (131.5 to 145.3)	135.3 (128.8 to 141.1)	137.6 (130.6 to 144.7)
Solomon Islands	Age-standardized	121.7 (120.0 to 123.6)	121.2 (119.5 to 123.0)	124.9 (123.2 to 126.7)	122.7 (120.9 to 124.4)
Tonga	25-29 years	120.3 (114.7 to 125.5)	112.5 (106.8 to 118.6)	122.6 (117.3 to 128.3)	113.7 (108.7 to 119.3)
Tonga	30-34 years	125.7 (120.2 to 131.3)	114.6 (109.3 to 120.1)	128.1 (122.1 to 134.6)	116.4 (111.1 to 122.0)
Tonga	35-39 years	125.8 (119.7 to 132.0)	117.5 (112.2 to 123.5)	128.1 (122.3 to 134.2)	119.1 (113.2 to 124.8)
Tonga	40-44 years	126.1 (120.7 to 132.2)	121.0 (115.5 to 127.3)	128.3 (122.6 to 134.3)	122.1 (116.0 to 128.2)
Tonga	45-49 years	126.0 (120.3 to 132.1)	124.3 (118.0 to 130.5)	128.5 (122.1 to 134.3)	125.6 (119.9 to 131.7)
Tonga	50-54 years	128.7 (123.3 to 134.7)	127.9 (121.8 to 134.6)	130.6 (124.7 to 136.9)	128.6 (122.9 to 135.0)
Tonga	55-59 years	132.5 (126.4 to 138.7)	131.2 (124.8 to 138.0)	134.4 (128.5 to 140.9)	132.3 (125.8 to 139.4)
Tonga	60-64 years	134.6 (128.1 to 140.8)	134.9 (128.4 to 141.4)	136.6 (130.2 to 142.5)	135.6 (129.2 to 142.3)
Tonga	65-69 years	136.1 (129.5 to 142.9)	137.6 (131.1 to 145.0)	137.7 (131.5 to 144.5)	138.4 (131.7 to 145.2)
Tonga	70-74 years	136.3 (130.3 to 142.6)	138.6 (132.0 to 145.7)	138.4 (132.2 to 145.0)	139.7 (133.0 to 146.5)
Tonga	75-79 years	138.9 (132.2 to 145.4)	139.2 (132.2 to 146.7)	140.8 (134.2 to 147.3)	138.7 (131.6 to 145.5)
Tonga	80+ years	139.0 (132.6 to 145.8)	140.6 (133.3 to 148.1)	141.0 (134.1 to 147.9)	140.0 (133.7 to 146.9)
Tonga	Age-standardized	128.5 (126.7 to 130.3)	124.5 (122.6 to 126.5)	130.7 (128.9 to 132.6)	125.6 (123.9 to 127.6)
Vanuatu	25-29 years	120.8 (116.3 to 125.1)	115.8 (111.4 to 120.6)	123.8 (120.5 to 126.9)	117.1 (113.8 to 120.5)
Vanuatu	30-34 years	125.1 (120.7 to 129.8)	119.3 (114.4 to 124.0)	129.7 (126.4 to 132.9)	119.9 (116.6 to 123.5)
Vanuatu	35-39 years	126.2 (121.9 to 130.9)	121.0 (116.2 to 126.1)	130.5 (127.4 to 134.0)	123.9 (120.5 to 127.4)
Vanuatu	40-44 years	132.5 (127.5 to 137.8)	127.1 (121.5 to 132.3)	130.7 (127.4 to 134.0)	127.1 (123.8 to 130.6)
Vanuatu	45-49 years	135.4 (130.3 to 140.9)	130.6 (125.6 to 136.1)	134.2 (130.6 to 137.8)	134.1 (130.1 to 137.8)
Vanuatu	50-54 years	136.1 (130.8 to 141.3)	132.4 (126.6 to 138.1)	136.8 (133.4 to 140.4)	137.8 (133.6 to 142.0)
Vanuatu	55-59 years	138.8 (133.4 to 144.6)	136.0 (130.0 to 141.8)	141.5 (137.5 to 145.9)	142.7 (138.2 to 147.2)
Vanuatu	60-64 years	138.3 (133.1 to 143.7)	147.2 (141.0 to 153.2)	143.7 (139.9 to 148.0)	146.3 (141.7 to 151.1)
Vanuatu	65-69 years	140.5 (134.3 to 146.2)	150.5 (143.5 to 157.6)	142.1 (135.6 to 148.5)	148.7 (141.5 to 156.3)
Vanuatu	70-74 years	140.1 (134.2 to 146.1)	151.7 (144.8 to 159.4)	141.0 (135.0 to 148.2)	151.0 (143.2 to 158.3)
Vanuatu	75-79 years	141.7 (136.2 to 147.1)	153.5 (146.2 to 161.6)	142.2 (136.0 to 148.7)	152.7 (145.5 to 160.0)
Vanuatu	80+ years	141.3 (135.3 to 148.1)	154.7 (146.9 to 162.7)	142.2 (136.1 to 149.1)	153.9 (146.5 to 161.6)
Vanuatu	Age-standardized	132.3 (130.6 to 133.9)	131.3 (129.6 to 132.8)	134.3 (133.2 to 135.4)	133.0 (131.7 to 134.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Armenia	25-29 years	124.0 (120.8 to 127.3)	121.2 (118.7 to 123.5)	124.6 (121.7 to 127.8)	120.5 (118.0 to 123.1)
Armenia	30-34 years	129.4 (126.3 to 132.6)	124.3 (121.8 to 126.9)	129.9 (126.8 to 132.8)	123.2 (120.7 to 125.6)
Armenia	35-39 years	130.2 (126.9 to 133.5)	127.9 (125.3 to 130.5)	130.7 (127.7 to 133.9)	126.4 (123.9 to 128.8)
Armenia	40-44 years	134.1 (130.9 to 137.2)	132.7 (130.0 to 135.5)	134.4 (131.4 to 137.5)	131.0 (128.4 to 133.9)
Armenia	45-49 years	135.1 (131.9 to 138.5)	137.1 (134.3 to 139.9)	135.5 (132.4 to 138.8)	135.4 (132.7 to 138.2)
Armenia	50-54 years	138.0 (134.4 to 141.3)	141.1 (138.2 to 144.0)	138.6 (135.4 to 142.2)	139.5 (136.5 to 142.3)
Armenia	55-59 years	141.2 (137.6 to 144.9)	145.2 (142.2 to 148.2)	141.9 (138.5 to 145.3)	143.7 (140.7 to 146.8)
Armenia	60-64 years	143.8 (140.4 to 147.3)	148.8 (145.8 to 152.1)	144.5 (140.8 to 148.2)	147.3 (144.3 to 150.5)
Armenia	65-69 years	145.5 (142.1 to 149.3)	151.1 (147.9 to 154.7)	146.4 (142.9 to 150.0)	150.1 (146.9 to 153.4)
Armenia	70-74 years	145.6 (142.3 to 149.5)	151.9 (148.8 to 155.2)	146.5 (142.9 to 150.1)	151.2 (148.0 to 154.4)
Armenia	75-79 years	147.5 (143.8 to 151.3)	153.8 (150.7 to 157.0)	148.5 (144.8 to 152.5)	153.3 (150.1 to 156.5)
Armenia	80+ years	147.4 (143.8 to 151.0)	155.1 (151.9 to 158.4)	148.4 (144.9 to 152.1)	154.5 (151.3 to 157.7)
Armenia	Age-standardized	135.6 (134.5 to 136.6)	136.4 (135.5 to 137.3)	136.2 (135.1 to 137.2)	135.1 (134.4 to 136.0)
Azerbaijan	25-29 years	120.7 (117.6 to 123.8)	116.6 (114.3 to 119.1)	121.5 (118.6 to 124.3)	116.5 (114.1 to 118.9)
Azerbaijan	30-34 years	125.8 (122.7 to 128.6)	119.5 (117.0 to 121.8)	126.2 (123.7 to 128.9)	118.9 (116.5 to 121.2)
Azerbaijan	35-39 years	127.0 (124.1 to 130.1)	122.0 (119.4 to 124.5)	127.9 (125.1 to 130.6)	121.5 (119.3 to 123.9)
Azerbaijan	40-44 years	129.6 (126.6 to 132.8)	125.3 (122.8 to 127.9)	130.5 (127.8 to 133.2)	124.7 (122.4 to 127.0)
Azerbaijan	45-49 years	130.6 (127.7 to 133.9)	129.2 (126.7 to 132.0)	131.3 (128.7 to 134.0)	128.7 (126.3 to 131.1)
Azerbaijan	50-54 years	132.4 (129.0 to 135.8)	133.0 (130.3 to 135.8)	133.5 (130.6 to 136.4)	132.5 (129.7 to 135.2)
Azerbaijan	55-59 years	137.0 (133.6 to 140.3)	136.9 (134.3 to 139.8)	138.1 (134.7 to 141.5)	136.3 (133.6 to 139.1)
Azerbaijan	60-64 years	139.6 (136.1 to 143.2)	140.4 (137.5 to 143.4)	140.6 (137.1 to 144.1)	139.8 (137.0 to 142.6)
Azerbaijan	65-69 years	141.3 (138.0 to 144.8)	142.7 (139.9 to 145.7)	142.1 (138.6 to 145.5)	142.1 (139.1 to 145.2)
Azerbaijan	70-74 years	141.4 (138.2 to 144.9)	143.7 (140.9 to 146.9)	142.4 (138.6 to 146.2)	143.2 (140.4 to 146.1)
Azerbaijan	75-79 years	143.4 (139.9 to 147.0)	145.4 (142.4 to 148.4)	144.2 (140.9 to 147.9)	145.0 (142.1 to 148.1)
Azerbaijan	80+ years	143.3 (140.1 to 146.8)	146.6 (143.6 to 149.6)	144.2 (140.9 to 148.1)	146.3 (143.4 to 149.4)
Azerbaijan	Age-standardized	131.5 (130.5 to 132.5)	129.4 (128.6 to 130.3)	132.3 (131.4 to 133.3)	129.0 (128.2 to 129.7)
Georgia	25-29 years	124.4 (121.4 to 127.4)	116.5 (114.3 to 118.9)	124.8 (122.2 to 127.8)	116.6 (114.4 to 118.8)
Georgia	30-34 years	130.2 (127.3 to 133.3)	119.4 (117.1 to 121.8)	130.4 (127.5 to 133.2)	119.0 (116.9 to 121.2)
Georgia	35-39 years	131.0 (128.0 to 134.3)	121.2 (118.6 to 123.8)	131.2 (128.4 to 134.2)	120.7 (118.5 to 122.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Georgia	40-44 years	131.8 (128.7 to 134.9)	125.2 (122.7 to 127.8)	131.5 (128.5 to 134.3)	123.9 (121.5 to 126.2)
Georgia	45-49 years	134.5 (131.5 to 137.7)	129.2 (126.8 to 131.6)	134.2 (131.3 to 137.3)	127.5 (125.2 to 129.9)
Georgia	50-54 years	138.3 (135.3 to 141.5)	133.9 (131.3 to 136.7)	137.3 (134.3 to 140.4)	131.1 (128.9 to 133.6)
Georgia	55-59 years	141.5 (138.2 to 145.0)	137.5 (134.7 to 140.5)	140.1 (137.0 to 143.5)	134.5 (132.1 to 137.0)
Georgia	60-64 years	146.0 (142.7 to 149.5)	141.2 (138.4 to 144.1)	142.5 (139.2 to 145.7)	137.6 (134.9 to 140.2)
Georgia	65-69 years	150.0 (146.4 to 153.7)	146.6 (143.5 to 149.7)	147.8 (144.4 to 151.5)	142.9 (139.9 to 146.0)
Georgia	70-74 years	149.9 (146.4 to 153.2)	147.2 (143.9 to 150.2)	148.2 (144.8 to 151.8)	144.0 (141.1 to 147.0)
Georgia	75-79 years	152.3 (148.5 to 156.0)	149.0 (146.0 to 152.0)	150.1 (146.5 to 153.8)	145.8 (142.6 to 148.8)
Georgia	80+ years	152.0 (148.2 to 155.7)	150.0 (146.5 to 153.3)	149.9 (146.2 to 153.7)	147.0 (143.8 to 150.1)
Georgia	Age-standardized	136.5 (135.5 to 137.5)	130.1 (129.3 to 131.0)	135.7 (134.8 to 136.7)	128.4 (127.7 to 129.1)
Kazakhstan	25-29 years	121.7 (118.9 to 124.6)	114.4 (112.2 to 116.7)	122.3 (119.2 to 125.2)	114.6 (112.3 to 117.0)
Kazakhstan	30-34 years	126.6 (123.3 to 129.8)	117.4 (114.9 to 119.9)	127.1 (123.9 to 130.4)	116.8 (114.4 to 119.2)
Kazakhstan	35-39 years	126.6 (123.3 to 129.7)	118.9 (116.3 to 121.2)	127.8 (124.6 to 131.1)	119.0 (116.5 to 121.5)
Kazakhstan	40-44 years	127.5 (124.5 to 130.6)	122.5 (119.8 to 125.3)	128.6 (125.3 to 131.9)	122.5 (119.9 to 125.1)
Kazakhstan	45-49 years	130.3 (127.1 to 133.3)	126.8 (124.3 to 129.3)	131.5 (128.2 to 134.8)	126.7 (124.1 to 129.3)
Kazakhstan	50-54 years	133.0 (129.5 to 136.7)	130.2 (127.6 to 133.0)	134.5 (131.3 to 137.7)	130.4 (127.9 to 133.1)
Kazakhstan	55-59 years	135.8 (132.7 to 139.3)	133.5 (130.7 to 136.3)	137.3 (133.9 to 140.7)	133.8 (131.0 to 136.5)
Kazakhstan	60-64 years	138.2 (134.7 to 141.6)	136.7 (133.7 to 139.7)	139.6 (136.6 to 143.0)	136.8 (134.2 to 139.4)
Kazakhstan	65-69 years	140.3 (137.0 to 143.8)	139.5 (136.6 to 142.1)	141.5 (138.3 to 145.0)	139.3 (136.6 to 142.1)
Kazakhstan	70-74 years	140.1 (136.6 to 143.6)	140.2 (137.0 to 142.9)	141.3 (138.1 to 144.5)	139.9 (137.2 to 142.6)
Kazakhstan	75-79 years	141.9 (138.1 to 145.5)	141.5 (138.8 to 144.5)	142.3 (138.9 to 145.7)	141.0 (138.3 to 143.8)
Kazakhstan	80+ years	141.4 (138.0 to 144.9)	142.5 (139.6 to 145.4)	142.2 (138.6 to 146.2)	142.0 (139.2 to 145.2)
Kazakhstan	Age-standardized	131.1 (130.0 to 132.0)	126.6 (125.7 to 127.4)	132.1 (131.1 to 133.0)	126.5 (125.7 to 127.3)
Kyrgyzstan	25-29 years	117.0 (114.2 to 119.8)	110.2 (107.9 to 112.5)	117.5 (114.5 to 120.3)	110.8 (108.5 to 113.2)
Kyrgyzstan	30-34 years	121.8 (118.7 to 124.8)	112.7 (110.4 to 115.0)	121.6 (119.7 to 123.6)	112.7 (111.0 to 114.4)
Kyrgyzstan	35-39 years	122.2 (119.3 to 125.2)	114.9 (112.4 to 117.2)	122.5 (120.4 to 124.4)	115.5 (113.7 to 117.4)
Kyrgyzstan	40-44 years	122.7 (119.5 to 125.9)	118.2 (115.8 to 120.7)	122.9 (121.0 to 124.9)	118.9 (117.0 to 120.9)
Kyrgyzstan	45-49 years	124.9 (122.1 to 127.9)	122.8 (120.4 to 125.4)	125.3 (123.1 to 127.5)	123.4 (121.5 to 125.4)
Kyrgyzstan	50-54 years	127.7 (124.4 to 130.8)	126.4 (123.7 to 129.1)	128.7 (125.5 to 132.0)	127.1 (124.5 to 129.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Kyrgyzstan	55-59 years	130.8 (127.5 to 134.1)	130.1 (127.2 to 132.8)	131.5 (128.3 to 134.8)	130.7 (128.0 to 133.3)
Kyrgyzstan	60-64 years	133.1 (130.1 to 136.4)	133.4 (130.5 to 136.0)	133.8 (130.4 to 137.2)	134.0 (131.2 to 136.7)
Kyrgyzstan	65-69 years	134.8 (131.4 to 138.2)	135.7 (132.8 to 138.5)	135.1 (131.8 to 138.5)	136.0 (133.2 to 138.8)
Kyrgyzstan	70-74 years	134.9 (131.7 to 138.4)	136.7 (134.0 to 139.7)	135.2 (132.1 to 138.2)	136.9 (134.1 to 139.7)
Kyrgyzstan	75-79 years	136.9 (133.5 to 140.4)	138.5 (135.8 to 141.3)	136.9 (133.5 to 140.3)	138.8 (135.9 to 141.8)
Kyrgyzstan	80+ years	136.9 (133.7 to 140.3)	139.7 (137.0 to 142.6)	137.0 (133.8 to 140.4)	139.8 (137.0 to 142.7)
Kyrgyzstan	Age-standardized	126.1 (125.2 to 127.0)	122.6 (121.9 to 123.5)	126.5 (125.7 to 127.3)	123.1 (122.4 to 123.8)
Mongolia	25-29 years	123.0 (119.8 to 126.0)	116.7 (114.1 to 119.1)	123.5 (120.8 to 126.5)	116.0 (113.8 to 118.3)
Mongolia	30-34 years	128.0 (125.0 to 131.2)	119.7 (117.3 to 122.1)	128.6 (125.6 to 131.5)	118.0 (115.8 to 120.4)
Mongolia	35-39 years	128.2 (125.2 to 131.3)	122.0 (119.8 to 124.5)	129.7 (127.0 to 132.5)	121.4 (118.9 to 123.7)
Mongolia	40-44 years	128.9 (125.8 to 132.0)	125.3 (122.9 to 127.9)	130.1 (127.5 to 132.9)	124.8 (122.2 to 127.2)
Mongolia	45-49 years	132.1 (129.1 to 135.2)	129.5 (127.1 to 132.3)	134.2 (131.3 to 137.1)	129.6 (127.1 to 132.1)
Mongolia	50-54 years	134.7 (131.6 to 137.8)	132.9 (130.3 to 135.5)	137.6 (134.4 to 140.7)	133.7 (131.2 to 136.2)
Mongolia	55-59 years	137.9 (134.9 to 141.0)	136.2 (133.6 to 139.0)	141.7 (138.5 to 144.6)	137.0 (134.5 to 139.6)
Mongolia	60-64 years	140.1 (137.0 to 143.6)	139.4 (136.6 to 142.5)	143.8 (140.9 to 147.1)	140.1 (137.4 to 143.0)
Mongolia	65-69 years	141.3 (137.9 to 144.6)	141.6 (138.9 to 144.1)	142.7 (139.4 to 145.9)	141.2 (138.2 to 144.3)
Mongolia	70-74 years	140.8 (137.7 to 143.9)	141.9 (139.1 to 144.5)	141.8 (138.3 to 145.2)	141.7 (138.9 to 144.7)
Mongolia	75-79 years	142.6 (139.3 to 146.2)	143.2 (140.3 to 146.1)	142.9 (139.4 to 146.3)	142.8 (139.8 to 145.7)
Mongolia	80+ years	142.0 (138.7 to 145.1)	143.7 (140.8 to 146.8)	142.4 (139.0 to 145.7)	142.9 (140.1 to 145.8)
Mongolia	Age-standardized	132.5 (131.6 to 133.4)	129.1 (128.3 to 129.8)	134.1 (133.2 to 135.0)	128.7 (128.0 to 129.5)
Tajikistan	25-29 years	122.9 (119.8 to 126.0)	116.7 (114.3 to 119.2)	122.5 (119.6 to 125.6)	116.9 (114.5 to 119.4)
Tajikistan	30-34 years	127.3 (124.1 to 130.6)	119.7 (117.3 to 122.1)	126.5 (123.1 to 129.8)	118.5 (116.0 to 121.0)
Tajikistan	35-39 years	126.7 (123.6 to 129.9)	120.6 (118.2 to 123.3)	127.4 (124.2 to 130.5)	120.7 (118.2 to 123.3)
Tajikistan	40-44 years	128.4 (125.4 to 131.6)	124.2 (121.7 to 126.6)	128.6 (125.4 to 132.0)	124.2 (121.8 to 126.9)
Tajikistan	45-49 years	131.1 (127.7 to 134.5)	128.2 (125.5 to 130.7)	131.2 (128.0 to 134.3)	128.4 (125.8 to 131.1)
Tajikistan	50-54 years	133.9 (130.7 to 137.5)	131.3 (128.7 to 134.1)	134.6 (131.3 to 137.7)	132.2 (129.3 to 134.9)
Tajikistan	55-59 years	137.0 (133.6 to 140.4)	135.0 (132.2 to 137.9)	137.8 (134.7 to 141.0)	135.7 (132.8 to 138.7)
Tajikistan	60-64 years	140.2 (136.9 to 143.6)	138.4 (135.3 to 141.3)	140.2 (136.5 to 143.5)	138.7 (135.8 to 141.6)
Tajikistan	65-69 years	142.5 (138.8 to 145.9)	141.0 (138.2 to 144.0)	142.1 (138.4 to 145.3)	141.3 (138.6 to 144.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Tajikistan	70-74 years	141.4 (137.9 to 144.7)	141.0 (137.9 to 144.0)	141.5 (138.3 to 145.2)	142.0 (139.0 to 144.9)
Tajikistan	75-79 years	143.8 (140.2 to 147.4)	142.9 (139.9 to 145.9)	143.0 (139.4 to 146.8)	143.6 (140.6 to 146.6)
Tajikistan	80+ years	142.6 (139.2 to 146.2)	143.4 (140.5 to 146.3)	142.6 (139.1 to 146.2)	143.6 (140.8 to 146.5)
Tajikistan	Age-standardized	132.1 (131.1 to 133.1)	128.2 (127.4 to 129.0)	132.1 (131.2 to 133.2)	128.4 (127.5 to 129.2)
Turkmenistan	25-29 years	123.0 (120.1 to 126.1)	116.3 (113.9 to 118.8)	123.4 (120.4 to 126.6)	116.2 (113.7 to 118.8)
Turkmenistan	30-34 years	127.7 (124.7 to 131.1)	119.4 (117.0 to 121.8)	127.6 (124.4 to 130.7)	117.8 (115.4 to 120.2)
Turkmenistan	35-39 years	127.1 (124.2 to 130.3)	120.5 (118.0 to 123.4)	128.4 (125.3 to 131.5)	120.1 (117.6 to 122.6)
Turkmenistan	40-44 years	128.8 (125.8 to 131.9)	124.2 (121.7 to 126.8)	129.6 (126.5 to 133.1)	123.5 (120.9 to 126.1)
Turkmenistan	45-49 years	131.5 (128.4 to 134.7)	128.3 (125.8 to 130.9)	132.1 (128.8 to 135.3)	127.7 (125.2 to 130.4)
Turkmenistan	50-54 years	134.3 (130.9 to 137.5)	131.3 (128.5 to 134.2)	135.8 (132.4 to 139.4)	131.4 (128.8 to 134.3)
Turkmenistan	55-59 years	137.4 (134.2 to 141.0)	134.9 (132.1 to 137.6)	138.9 (135.3 to 142.3)	134.9 (132.1 to 137.8)
Turkmenistan	60-64 years	140.7 (137.3 to 144.1)	138.4 (135.2 to 141.4)	141.3 (137.9 to 144.8)	138.0 (135.1 to 141.1)
Turkmenistan	65-69 years	142.9 (139.5 to 146.4)	141.0 (138.1 to 144.0)	143.3 (139.8 to 146.9)	140.5 (137.7 to 143.5)
Turkmenistan	70-74 years	141.8 (138.4 to 145.4)	141.0 (138.0 to 143.9)	142.7 (139.3 to 146.4)	141.3 (138.4 to 144.2)
Turkmenistan	75-79 years	144.1 (140.6 to 147.5)	142.9 (140.0 to 145.8)	144.0 (140.5 to 147.4)	142.9 (139.8 to 146.0)
Turkmenistan	80+ years	142.9 (139.3 to 146.6)	143.5 (140.5 to 146.4)	143.8 (140.3 to 147.3)	142.9 (139.8 to 145.9)
Turkmenistan	Age-standardized	132.5 (131.5 to 133.5)	128.1 (127.3 to 129.0)	133.2 (132.1 to 134.3)	127.7 (126.8 to 128.5)
Uzbekistan	25-29 years	120.4 (117.5 to 123.3)	114.6 (112.2 to 116.9)	123.8 (121.8 to 125.9)	117.8 (115.8 to 119.8)
Uzbekistan	30-34 years	125.4 (122.1 to 128.3)	117.6 (115.2 to 120.1)	129.4 (127.4 to 131.6)	120.3 (118.0 to 122.4)
Uzbekistan	35-39 years	125.0 (122.2 to 127.9)	118.9 (116.6 to 121.4)	130.1 (128.0 to 132.4)	121.9 (119.8 to 124.2)
Uzbekistan	40-44 years	125.3 (122.3 to 128.2)	121.9 (119.6 to 124.3)	130.6 (128.3 to 132.7)	125.1 (122.7 to 127.3)
Uzbekistan	45-49 years	127.8 (124.9 to 130.7)	125.6 (123.4 to 128.1)	133.2 (130.9 to 135.4)	128.8 (126.6 to 131.1)
Uzbekistan	50-54 years	130.2 (127.2 to 133.3)	128.5 (126.1 to 131.2)	135.9 (133.5 to 138.1)	132.3 (130.1 to 134.5)
Uzbekistan	55-59 years	132.7 (129.9 to 135.7)	131.7 (129.2 to 134.2)	138.4 (136.2 to 140.7)	135.5 (133.2 to 137.9)
Uzbekistan	60-64 years	135.2 (132.3 to 138.2)	134.9 (132.4 to 137.5)	140.4 (138.0 to 142.7)	138.5 (136.0 to 141.0)
Uzbekistan	65-69 years	137.5 (134.3 to 140.7)	137.8 (135.4 to 140.4)	140.8 (137.5 to 144.5)	139.6 (136.9 to 142.6)
Uzbekistan	70-74 years	137.7 (134.3 to 140.8)	138.2 (135.6 to 140.8)	141.0 (137.6 to 144.5)	138.7 (136.0 to 141.5)
Uzbekistan	75-79 years	139.4 (135.7 to 143.1)	139.6 (137.0 to 142.2)	142.9 (139.1 to 146.4)	139.5 (136.6 to 142.3)
Uzbekistan	80+ years	138.9 (135.3 to 142.4)	140.1 (137.5 to 142.9)	142.9 (139.6 to 146.5)	140.0 (136.9 to 143.0)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Uzbekistan	Age-standardized	128.9 (128.0 to 129.8)	125.7 (124.9 to 126.4)	133.5 (132.8 to 134.2)	128.5 (127.7 to 129.1)
Albania	25-29 years	124.4 (120.6 to 128.6)	119.7 (113.7 to 125.6)	126.1 (121.9 to 130.4)	120.4 (114.9 to 126.0)
Albania	30-34 years	130.7 (126.6 to 134.8)	123.1 (117.4 to 128.9)	133.6 (130.0 to 137.4)	125.1 (119.7 to 130.5)
Albania	35-39 years	131.5 (127.7 to 135.8)	125.7 (119.8 to 131.8)	133.6 (129.9 to 137.1)	128.3 (123.4 to 133.1)
Albania	40-44 years	132.0 (127.7 to 136.2)	129.0 (122.9 to 135.0)	134.9 (131.3 to 138.9)	131.2 (125.8 to 136.9)
Albania	45-49 years	134.7 (130.5 to 139.1)	133.0 (126.8 to 139.0)	137.2 (133.6 to 140.9)	135.3 (129.9 to 140.6)
Albania	50-54 years	137.1 (132.3 to 142.0)	136.0 (129.6 to 142.2)	139.2 (134.3 to 144.0)	137.0 (130.5 to 143.9)
Albania	55-59 years	139.7 (135.1 to 144.5)	139.3 (133.0 to 146.2)	141.2 (136.5 to 146.1)	139.5 (132.8 to 146.1)
Albania	60-64 years	142.1 (137.3 to 146.6)	142.7 (136.1 to 149.5)	143.2 (138.1 to 148.0)	142.3 (135.7 to 149.3)
Albania	65-69 years	145.0 (140.3 to 149.8)	146.4 (139.6 to 153.8)	145.9 (141.3 to 151.4)	146.7 (139.8 to 153.9)
Albania	70-74 years	145.1 (140.5 to 149.6)	148.4 (141.8 to 154.9)	145.7 (140.8 to 150.8)	147.5 (140.0 to 155.0)
Albania	75-79 years	147.8 (143.1 to 152.6)	154.0 (147.4 to 161.0)	147.2 (142.3 to 152.0)	148.8 (141.5 to 155.9)
Albania	80+ years	148.5 (143.4 to 153.9)	154.5 (147.4 to 162.0)	147.5 (142.3 to 153.1)	149.3 (142.3 to 156.8)
Albania	Age-standardized	135.3 (134.0 to 136.7)	133.2 (131.3 to 135.1)	137.2 (135.8 to 138.5)	134.0 (132.2 to 135.7)
Bosnia and Herzegovina	25-29 years	120.9 (116.8 to 125.2)	118.0 (112.6 to 123.9)	122.6 (118.6 to 127.0)	117.6 (112.4 to 123.2)
Bosnia and Herzegovina	30-34 years	126.6 (122.4 to 130.9)	120.9 (115.2 to 126.4)	128.7 (124.3 to 132.9)	120.8 (115.3 to 127.0)
Bosnia and Herzegovina	35-39 years	127.8 (123.9 to 132.2)	124.8 (118.8 to 130.7)	129.5 (125.0 to 134.0)	124.0 (117.7 to 130.5)
Bosnia and Herzegovina	40-44 years	128.2 (123.9 to 132.6)	128.8 (123.2 to 135.2)	130.2 (125.6 to 134.7)	127.8 (122.2 to 134.3)
Bosnia and Herzegovina	45-49 years	132.5 (128.2 to 137.0)	138.0 (131.7 to 145.5)	134.6 (130.1 to 139.6)	136.0 (129.8 to 143.2)
Bosnia and Herzegovina	50-54 years	135.5 (130.6 to 140.5)	142.5 (135.5 to 149.3)	137.4 (132.6 to 142.3)	140.1 (133.5 to 146.9)
Bosnia and Herzegovina	55-59 years	140.2 (135.4 to 145.0)	147.7 (140.2 to 155.3)	141.6 (136.9 to 146.4)	144.8 (137.9 to 151.8)
Bosnia and Herzegovina	60-64 years	142.7 (137.8 to 147.8)	151.4 (144.6 to 159.0)	144.1 (139.1 to 149.2)	148.3 (141.3 to 155.6)
Bosnia and Herzegovina	65-69 years	145.5 (140.2 to 150.8)	153.5 (145.7 to 161.5)	146.5 (141.3 to 151.7)	151.2 (143.8 to 159.3)
Bosnia and Herzegovina	70-74 years	145.7 (140.5 to 150.9)	154.5 (146.6 to 162.5)	146.5 (141.2 to 151.9)	152.1 (144.2 to 160.1)
Bosnia and Herzegovina	75-79 years	148.7 (143.2 to 154.1)	159.0 (151.0 to 167.4)	148.0 (142.9 to 153.4)	153.8 (146.1 to 161.6)
Bosnia and Herzegovina	80+ years	148.3 (143.4 to 153.7)	160.3 (152.4 to 168.9)	147.7 (142.6 to 153.1)	154.6 (146.4 to 162.9)
Bosnia and Herzegovina	Age-standardized	133.3 (132.0 to 134.7)	136.0 (134.0 to 138.0)	134.9 (133.5 to 136.3)	134.2 (132.2 to 136.3)
Bulgaria	25-29 years	122.3 (118.6 to 125.8)	115.4 (111.3 to 119.9)	123.3 (119.1 to 127.6)	116.2 (110.3 to 122.3)
Bulgaria	30-34 years	128.2 (124.3 to 131.9)	118.3 (113.9 to 122.7)	129.3 (125.1 to 134.1)	119.6 (113.8 to 125.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Bulgaria	35-39 years	129.1 (125.5 to 132.6)	122.0 (117.7 to 126.5)	130.1 (125.2 to 134.8)	122.7 (117.1 to 128.6)
Bulgaria	40-44 years	129.7 (125.9 to 133.6)	125.3 (120.9 to 130.0)	130.9 (126.1 to 135.9)	126.1 (119.9 to 132.6)
Bulgaria	45-49 years	133.7 (129.6 to 137.7)	132.7 (127.8 to 137.6)	134.9 (130.1 to 139.8)	132.2 (125.1 to 139.3)
Bulgaria	50-54 years	136.3 (132.3 to 140.3)	136.5 (131.6 to 141.3)	137.8 (133.0 to 142.9)	136.1 (129.1 to 142.6)
Bulgaria	55-59 years	142.2 (137.8 to 146.4)	141.1 (135.8 to 147.1)	142.4 (137.7 to 147.5)	140.2 (132.9 to 147.3)
Bulgaria	60-64 years	144.5 (140.2 to 148.8)	144.2 (138.3 to 150.3)	144.7 (139.4 to 150.2)	143.7 (136.2 to 151.2)
Bulgaria	65-69 years	147.9 (143.0 to 152.8)	147.7 (140.7 to 155.5)	147.5 (142.2 to 152.8)	147.3 (139.9 to 155.2)
Bulgaria	70-74 years	147.8 (142.3 to 152.9)	149.8 (143.0 to 156.9)	147.6 (142.5 to 153.1)	148.7 (140.8 to 156.2)
Bulgaria	75-79 years	150.6 (145.2 to 156.1)	155.0 (147.7 to 162.8)	149.0 (143.4 to 154.2)	150.3 (142.7 to 158.1)
Bulgaria	80+ years	150.3 (145.0 to 155.5)	156.2 (148.5 to 164.1)	148.6 (143.6 to 154.0)	151.0 (143.8 to 158.8)
Bulgaria	Age-standardized	134.8 (133.6 to 136.1)	131.7 (130.1 to 133.2)	135.5 (134.0 to 137.1)	131.5 (129.5 to 133.5)
Croatia	25-29 years	123.1 (119.2 to 127.5)	116.4 (111.0 to 122.5)	124.0 (119.1 to 128.4)	117.9 (111.9 to 123.7)
Croatia	30-34 years	128.6 (124.1 to 132.9)	119.4 (113.2 to 125.3)	130.1 (125.7 to 134.8)	121.1 (114.8 to 127.6)
Croatia	35-39 years	130.3 (125.6 to 135.0)	123.7 (117.6 to 130.4)	131.0 (126.6 to 135.6)	123.9 (117.5 to 130.5)
Croatia	40-44 years	131.2 (126.6 to 135.9)	127.6 (120.9 to 134.7)	132.0 (127.4 to 136.6)	127.6 (121.0 to 134.2)
Croatia	45-49 years	135.1 (130.5 to 140.4)	133.1 (126.2 to 139.7)	136.3 (131.5 to 141.3)	133.0 (126.8 to 139.8)
Croatia	50-54 years	137.9 (132.9 to 143.0)	137.4 (130.2 to 144.3)	139.5 (134.9 to 144.3)	136.9 (130.3 to 143.9)
Croatia	55-59 years	141.5 (136.2 to 146.6)	142.8 (135.8 to 150.0)	142.2 (137.0 to 147.5)	140.7 (134.2 to 148.2)
Croatia	60-64 years	144.8 (139.6 to 150.2)	146.7 (139.8 to 154.1)	144.7 (139.6 to 150.3)	144.2 (136.8 to 151.7)
Croatia	65-69 years	148.8 (143.3 to 154.0)	150.2 (142.7 to 158.2)	147.8 (142.8 to 153.1)	149.1 (140.9 to 156.8)
Croatia	70-74 years	148.3 (143.4 to 153.5)	152.1 (144.9 to 159.7)	147.7 (142.3 to 153.3)	150.2 (142.4 to 158.6)
Croatia	75-79 years	152.3 (147.2 to 157.9)	158.7 (151.8 to 166.7)	149.2 (143.8 to 154.7)	151.5 (144.4 to 159.5)
Croatia	80+ years	151.6 (146.3 to 156.9)	159.2 (151.3 to 167.8)	148.5 (143.1 to 154.2)	151.8 (144.4 to 159.7)
Croatia	Age-standardized	135.8 (134.4 to 137.2)	133.3 (131.2 to 135.2)	136.2 (134.7 to 137.9)	132.7 (130.6 to 134.7)
Czech Republic	25-29 years	124.2 (122.2 to 126.4)	116.4 (113.6 to 119.2)	123.4 (119.6 to 127.2)	114.9 (109.4 to 120.4)
Czech Republic	30-34 years	130.2 (128.1 to 132.2)	119.2 (116.6 to 122.0)	129.4 (125.3 to 133.5)	117.8 (112.0 to 123.9)
Czech Republic	35-39 years	131.7 (129.9 to 133.6)	124.1 (121.6 to 126.6)	129.9 (125.8 to 134.3)	120.0 (114.3 to 125.9)
Czech Republic	40-44 years	131.9 (130.2 to 133.7)	127.2 (124.8 to 129.7)	130.4 (126.1 to 134.6)	123.4 (117.7 to 129.7)
Czech Republic	45-49 years	136.1 (134.1 to 138.1)	132.6 (129.9 to 135.6)	133.8 (129.6 to 138.1)	128.0 (121.7 to 134.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Czech Republic	50-54 years	138.7 (136.8 to 140.7)	136.3 (133.4 to 139.1)	136.2 (131.9 to 140.4)	131.5 (125.4 to 137.8)
Czech Republic	55-59 years	141.7 (139.8 to 143.8)	140.7 (137.7 to 143.7)	139.3 (134.8 to 143.4)	135.8 (129.7 to 142.3)
Czech Republic	60-64 years	143.8 (141.7 to 145.8)	143.9 (141.2 to 146.5)	141.3 (137.0 to 145.4)	138.8 (132.2 to 146.2)
Czech Republic	65-69 years	146.3 (140.9 to 151.9)	146.6 (138.8 to 154.3)	143.9 (139.2 to 148.8)	142.2 (135.3 to 149.2)
Czech Republic	70-74 years	146.9 (141.9 to 152.0)	148.0 (140.9 to 155.7)	144.3 (139.1 to 149.3)	143.5 (136.6 to 150.4)
Czech Republic	75-79 years	149.3 (144.3 to 154.7)	151.2 (143.5 to 159.1)	146.4 (141.3 to 151.6)	145.1 (138.0 to 153.5)
Czech Republic	80+ years	149.2 (143.9 to 154.7)	152.3 (144.8 to 160.0)	146.2 (140.9 to 151.3)	146.5 (139.0 to 153.6)
Czech Republic	Age-standardized	136.1 (135.3 to 136.8)	131.9 (130.8 to 132.9)	134.2 (132.8 to 135.4)	128.1 (126.0 to 130.0)
Hungary	25-29 years	124.6 (121.3 to 127.9)	116.9 (113.9 to 120.0)	123.6 (119.3 to 128.0)	115.8 (110.2 to 121.5)
Hungary	30-34 years	130.1 (126.9 to 133.4)	119.7 (116.3 to 123.3)	129.7 (125.4 to 134.4)	118.9 (112.7 to 124.5)
Hungary	35-39 years	133.1 (130.1 to 136.3)	126.1 (122.6 to 129.6)	132.2 (127.8 to 136.9)	123.1 (117.1 to 129.8)
Hungary	40-44 years	133.6 (130.5 to 136.8)	129.7 (126.2 to 133.2)	133.2 (128.6 to 137.9)	127.0 (120.9 to 133.2)
Hungary	45-49 years	137.9 (134.9 to 141.3)	135.5 (131.7 to 139.1)	138.4 (133.4 to 143.7)	133.2 (126.6 to 140.0)
Hungary	50-54 years	141.2 (138.1 to 144.6)	139.1 (135.7 to 142.9)	141.6 (136.4 to 146.6)	137.4 (130.5 to 144.4)
Hungary	55-59 years	144.7 (141.1 to 148.2)	144.2 (140.4 to 148.3)	145.5 (140.6 to 150.7)	144.0 (136.4 to 150.8)
Hungary	60-64 years	148.4 (145.0 to 151.7)	148.4 (144.6 to 152.4)	149.4 (144.0 to 154.8)	148.6 (141.0 to 156.4)
Hungary	65-69 years	154.9 (150.0 to 160.0)	154.1 (147.3 to 161.0)	154.7 (149.5 to 160.1)	152.8 (145.1 to 160.6)
Hungary	70-74 years	155.4 (150.0 to 160.8)	158.1 (150.1 to 165.9)	155.6 (150.1 to 160.7)	157.1 (149.3 to 164.9)
Hungary	75-79 years	158.3 (153.5 to 163.2)	164.5 (157.5 to 171.5)	158.5 (152.9 to 164.1)	163.1 (155.0 to 171.1)
Hungary	80+ years	157.8 (152.9 to 162.7)	165.0 (158.2 to 171.9)	158.1 (152.6 to 163.6)	164.0 (155.8 to 172.5)
Hungary	Age-standardized	138.9 (137.9 to 140.0)	135.4 (134.3 to 136.6)	138.8 (137.4 to 140.3)	134.0 (132.0 to 136.1)
Macedonia	25-29 years	122.9 (118.6 to 127.4)	116.4 (111.0 to 122.2)	123.8 (119.4 to 128.0)	118.0 (112.1 to 124.2)
Macedonia	30-34 years	128.5 (123.8 to 133.1)	119.3 (113.7 to 125.5)	129.9 (125.3 to 135.0)	121.1 (115.1 to 127.5)
Macedonia	35-39 years	129.9 (125.2 to 134.3)	123.7 (117.7 to 129.9)	130.7 (125.9 to 135.7)	123.7 (117.7 to 130.1)
Macedonia	40-44 years	130.6 (126.1 to 135.4)	127.8 (121.8 to 134.5)	131.6 (127.0 to 136.4)	127.6 (121.6 to 134.6)
Macedonia	45-49 years	134.8 (130.0 to 139.4)	133.6 (126.6 to 140.4)	136.2 (131.0 to 141.2)	133.4 (127.2 to 140.4)
Macedonia	50-54 years	137.5 (132.7 to 142.2)	137.9 (131.3 to 145.0)	139.1 (134.6 to 143.4)	137.0 (130.0 to 144.4)
Macedonia	55-59 years	141.1 (136.1 to 146.4)	142.8 (135.7 to 150.2)	141.9 (137.1 to 146.9)	140.9 (134.1 to 148.5)
Macedonia	60-64 years	144.5 (139.6 to 149.6)	147.2 (139.6 to 154.8)	144.3 (139.2 to 149.8)	144.6 (137.7 to 151.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Macedonia	65-69 years	148.5 (143.0 to 154.1)	150.2 (142.6 to 158.5)	147.2 (142.0 to 152.2)	149.0 (141.2 to 156.9)
Macedonia	70-74 years	147.9 (142.7 to 153.3)	152.2 (144.4 to 160.2)	147.4 (142.4 to 153.0)	150.2 (142.9 to 157.9)
Macedonia	75-79 years	152.1 (146.8 to 157.4)	158.6 (151.1 to 166.5)	148.9 (143.8 to 154.3)	151.9 (144.5 to 159.9)
Macedonia	80+ years	151.1 (145.4 to 156.6)	159.7 (152.3 to 168.3)	148.1 (142.8 to 153.4)	151.9 (143.9 to 160.0)
Macedonia	Age-standardized	135.4 (134.0 to 136.8)	133.5 (131.4 to 135.6)	135.9 (134.5 to 137.4)	132.8 (130.8 to 134.9)
Montenegro	25-29 years	123.4 (119.0 to 127.7)	116.7 (111.0 to 122.6)	124.2 (119.7 to 128.9)	118.2 (111.9 to 124.0)
Montenegro	30-34 years	128.9 (124.7 to 133.3)	119.5 (113.2 to 125.6)	130.2 (125.6 to 134.8)	121.1 (114.8 to 127.4)
Montenegro	35-39 years	130.4 (125.7 to 135.2)	123.9 (117.7 to 130.2)	131.0 (126.6 to 135.7)	123.9 (117.7 to 130.6)
Montenegro	40-44 years	131.1 (126.4 to 135.6)	127.7 (120.6 to 133.9)	132.1 (127.2 to 137.1)	127.7 (121.5 to 134.4)
Montenegro	45-49 years	135.1 (130.7 to 140.1)	133.6 (127.4 to 140.3)	136.4 (131.4 to 141.2)	133.0 (126.6 to 140.0)
Montenegro	50-54 years	137.8 (132.9 to 142.7)	137.4 (130.8 to 144.2)	139.4 (134.3 to 144.7)	136.6 (129.7 to 143.5)
Montenegro	55-59 years	141.6 (136.6 to 146.7)	142.7 (135.5 to 149.6)	142.2 (137.3 to 147.4)	140.5 (133.5 to 148.2)
Montenegro	60-64 years	144.8 (139.6 to 149.8)	146.9 (139.5 to 154.3)	144.7 (139.6 to 149.9)	143.8 (136.7 to 151.3)
Montenegro	65-69 years	148.8 (143.1 to 154.1)	149.9 (142.6 to 157.6)	147.5 (142.4 to 153.1)	148.7 (141.2 to 155.9)
Montenegro	70-74 years	148.4 (143.3 to 153.4)	151.8 (144.1 to 159.9)	147.7 (142.3 to 153.1)	149.5 (142.1 to 158.1)
Montenegro	75-79 years	152.5 (147.0 to 157.9)	158.1 (150.2 to 166.2)	149.3 (144.2 to 154.8)	151.2 (144.0 to 159.0)
Montenegro	80+ years	151.5 (146.2 to 157.1)	159.1 (151.5 to 168.2)	148.4 (143.2 to 153.7)	151.5 (144.4 to 159.9)
Montenegro	Age-standardized	135.8 (134.2 to 137.4)	133.4 (131.4 to 135.3)	136.3 (134.8 to 137.9)	132.6 (130.6 to 134.7)
Poland	25-29 years	119.3 (115.7 to 122.8)	111.5 (106.8 to 116.1)	120.7 (116.5 to 125.0)	111.2 (105.6 to 117.3)
Poland	30-34 years	125.5 (121.4 to 129.5)	115.4 (110.7 to 120.6)	127.1 (122.4 to 131.9)	115.5 (109.8 to 121.2)
Poland	35-39 years	129.8 (127.4 to 132.0)	123.2 (120.2 to 126.2)	128.9 (124.4 to 133.6)	119.9 (114.1 to 125.7)
Poland	40-44 years	130.0 (127.8 to 132.4)	126.5 (123.5 to 129.7)	129.5 (125.1 to 134.0)	121.8 (116.2 to 128.1)
Poland	45-49 years	134.2 (131.5 to 136.6)	133.9 (130.7 to 137.2)	138.2 (133.7 to 142.7)	132.8 (126.8 to 139.0)
Poland	50-54 years	136.6 (134.0 to 139.1)	137.3 (134.0 to 140.7)	140.0 (135.7 to 144.4)	135.4 (128.7 to 141.6)
Poland	55-59 years	139.9 (137.4 to 142.7)	143.0 (139.3 to 146.5)	144.0 (139.4 to 148.8)	140.8 (134.6 to 147.5)
Poland	60-64 years	142.1 (139.4 to 144.8)	146.5 (142.9 to 150.1)	146.3 (142.2 to 151.0)	144.1 (137.7 to 150.1)
Poland	65-69 years	144.6 (139.5 to 149.9)	149.7 (142.2 to 157.8)	147.9 (142.3 to 153.1)	147.0 (139.5 to 154.6)
Poland	70-74 years	144.8 (139.4 to 150.1)	150.9 (142.9 to 159.0)	148.0 (143.3 to 153.6)	148.3 (141.3 to 155.8)
Poland	75-79 years	147.4 (142.3 to 152.5)	154.1 (146.5 to 162.4)	150.0 (144.8 to 155.7)	149.8 (142.0 to 157.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Poland	80+ years	147.6 (142.0 to 153.4)	155.4 (147.7 to 163.3)	150.0 (145.0 to 155.4)	151.2 (144.0 to 158.8)
Poland	Age-standardized	133.4 (132.4 to 134.5)	131.7 (130.4 to 133.1)	135.5 (134.1 to 137.0)	129.5 (127.7 to 131.3)
Romania	25-29 years	121.7 (117.7 to 125.5)	116.6 (111.9 to 121.9)	122.5 (119.1 to 125.9)	116.6 (111.7 to 121.6)
Romania	30-34 years	127.6 (123.5 to 131.7)	119.5 (114.4 to 124.6)	128.3 (124.7 to 131.9)	119.7 (114.9 to 125.0)
Romania	35-39 years	129.9 (126.0 to 133.6)	125.3 (120.7 to 130.3)	129.9 (126.5 to 133.2)	123.4 (118.1 to 128.3)
Romania	40-44 years	130.4 (126.9 to 134.2)	128.7 (123.7 to 134.0)	130.4 (127.2 to 134.0)	127.0 (122.0 to 132.1)
Romania	45-49 years	136.4 (132.1 to 140.5)	136.1 (130.5 to 141.8)	138.2 (134.2 to 141.9)	134.0 (128.9 to 139.7)
Romania	50-54 years	139.2 (135.3 to 143.4)	139.9 (134.6 to 145.4)	140.8 (137.0 to 144.6)	137.8 (132.5 to 143.9)
Romania	55-59 years	143.3 (138.9 to 147.5)	145.0 (139.3 to 151.1)	143.2 (139.2 to 147.4)	140.0 (134.4 to 145.9)
Romania	60-64 years	145.8 (141.5 to 150.1)	148.4 (142.6 to 154.9)	145.4 (141.2 to 149.5)	143.3 (137.3 to 149.2)
Romania	65-69 years	150.5 (145.6 to 155.4)	151.3 (143.9 to 159.4)	148.2 (144.1 to 152.4)	149.8 (143.9 to 155.8)
Romania	70-74 years	151.2 (146.4 to 156.6)	152.6 (144.7 to 161.0)	148.3 (143.8 to 152.3)	150.7 (144.5 to 157.0)
Romania	75-79 years	153.0 (147.8 to 158.1)	155.2 (147.5 to 163.0)	149.3 (145.1 to 153.4)	151.9 (145.9 to 157.7)
Romania	80+ years	152.2 (147.3 to 158.1)	155.7 (147.9 to 164.1)	148.6 (144.4 to 152.5)	152.2 (146.2 to 158.5)
Romania	Age-standardized	136.1 (134.8 to 137.3)	134.3 (132.7 to 136.1)	136.0 (134.8 to 137.2)	132.3 (130.7 to 134.1)
Serbia	25-29 years	123.3 (120.4 to 126.4)	116.9 (113.7 to 120.1)	123.3 (119.3 to 127.6)	115.2 (109.9 to 120.5)
Serbia	30-34 years	129.2 (126.4 to 132.2)	119.7 (116.3 to 123.2)	129.3 (125.0 to 133.6)	117.7 (112.1 to 123.2)
Serbia	35-39 years	131.3 (128.7 to 134.0)	126.3 (123.3 to 129.3)	130.3 (126.1 to 134.7)	121.0 (115.8 to 126.9)
Serbia	40-44 years	131.6 (129.1 to 134.3)	129.6 (126.5 to 132.7)	130.9 (126.4 to 135.3)	124.7 (119.1 to 130.4)
Serbia	45-49 years	136.2 (133.3 to 139.0)	135.6 (132.7 to 139.1)	135.4 (131.0 to 140.1)	131.8 (125.7 to 137.9)
Serbia	50-54 years	138.7 (135.9 to 141.5)	139.4 (136.0 to 142.9)	138.2 (133.7 to 143.2)	135.8 (129.8 to 142.1)
Serbia	55-59 years	142.8 (139.8 to 145.9)	143.7 (140.1 to 147.0)	141.9 (137.2 to 146.5)	142.6 (136.2 to 150.1)
Serbia	60-64 years	145.1 (142.2 to 148.2)	146.9 (143.6 to 150.4)	144.2 (139.3 to 149.5)	146.2 (139.0 to 153.2)
Serbia	65-69 years	153.0 (148.5 to 157.4)	150.1 (142.7 to 157.9)	146.6 (141.6 to 151.3)	149.3 (142.5 to 156.2)
Serbia	70-74 years	151.3 (146.6 to 156.6)	150.8 (143.3 to 158.4)	146.4 (141.7 to 151.3)	150.0 (143.2 to 157.0)
Serbia	75-79 years	156.5 (151.5 to 161.4)	152.3 (144.8 to 160.1)	148.0 (142.9 to 153.2)	151.3 (144.4 to 158.4)
Serbia	80+ years	155.7 (150.9 to 160.7)	152.5 (145.1 to 160.2)	147.4 (142.6 to 152.3)	151.6 (144.1 to 158.6)
Serbia	Age-standardized	137.0 (136.1 to 138.0)	133.9 (132.8 to 135.1)	135.4 (133.9 to 136.7)	131.3 (129.4 to 133.2)
Slovakia	25-29 years	123.2 (118.9 to 127.6)	116.4 (110.5 to 122.5)	124.3 (120.1 to 128.8)	117.2 (111.7 to 123.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Slovakia	30-34 years	128.7 (124.2 to 133.4)	119.3 (112.9 to 125.4)	130.3 (125.9 to 135.1)	120.7 (114.6 to 127.0)
Slovakia	35-39 years	130.3 (125.8 to 134.6)	123.4 (117.3 to 129.9)	131.1 (126.6 to 135.6)	123.3 (117.0 to 129.9)
Slovakia	40-44 years	131.1 (126.4 to 136.1)	127.5 (120.6 to 133.9)	132.0 (127.0 to 136.7)	127.1 (121.0 to 133.9)
Slovakia	45-49 years	135.2 (130.5 to 140.2)	133.2 (126.7 to 140.2)	136.7 (131.7 to 141.9)	132.7 (126.4 to 139.4)
Slovakia	50-54 years	138.2 (133.1 to 143.0)	137.5 (130.9 to 144.4)	139.6 (134.4 to 144.7)	136.5 (129.7 to 143.6)
Slovakia	55-59 years	141.9 (136.9 to 147.0)	142.5 (135.3 to 149.6)	142.5 (137.6 to 147.6)	140.3 (133.0 to 147.7)
Slovakia	60-64 years	145.0 (140.0 to 149.8)	146.9 (139.4 to 154.2)	144.9 (139.7 to 149.9)	143.9 (137.2 to 151.5)
Slovakia	65-69 years	149.0 (143.4 to 154.2)	149.9 (142.3 to 157.6)	147.9 (142.6 to 153.3)	148.3 (140.8 to 155.8)
Slovakia	70-74 years	148.6 (143.6 to 153.4)	152.0 (144.0 to 159.7)	147.9 (142.8 to 153.1)	149.5 (141.6 to 157.5)
Slovakia	75-79 years	152.3 (147.4 to 158.0)	158.2 (150.5 to 166.5)	149.1 (144.0 to 154.2)	151.1 (143.5 to 159.3)
Slovakia	80+ years	151.7 (146.3 to 157.2)	159.4 (151.6 to 168.0)	148.6 (143.6 to 153.7)	151.3 (143.8 to 159.3)
Slovakia	Age-standardized	135.9 (134.4 to 137.3)	133.2 (131.4 to 135.3)	136.4 (134.9 to 138.0)	132.2 (130.2 to 134.1)
Slovenia	25-29 years	123.5 (119.1 to 127.8)	116.0 (110.1 to 122.0)	124.2 (119.9 to 128.3)	117.2 (111.5 to 123.3)
Slovenia	30-34 years	128.8 (124.1 to 133.1)	118.7 (112.6 to 124.9)	130.1 (125.7 to 135.1)	120.7 (114.7 to 127.1)
Slovenia	35-39 years	130.4 (125.5 to 135.1)	123.2 (117.2 to 129.7)	130.9 (126.3 to 135.5)	123.4 (117.3 to 129.5)
Slovenia	40-44 years	131.2 (126.5 to 136.2)	127.0 (120.4 to 132.9)	131.9 (127.4 to 136.3)	126.9 (120.7 to 133.6)
Slovenia	45-49 years	135.2 (130.5 to 140.0)	132.6 (126.4 to 139.5)	136.6 (131.7 to 141.6)	132.5 (125.9 to 139.1)
Slovenia	50-54 years	138.3 (133.6 to 143.1)	136.9 (130.0 to 144.3)	139.6 (134.9 to 144.4)	135.9 (128.7 to 143.3)
Slovenia	55-59 years	141.9 (136.9 to 147.0)	141.9 (135.0 to 149.5)	142.6 (137.8 to 147.6)	140.1 (133.2 to 147.8)
Slovenia	60-64 years	145.0 (139.7 to 150.5)	146.0 (138.8 to 153.7)	144.8 (139.7 to 149.7)	143.6 (136.5 to 150.7)
Slovenia	65-69 years	149.2 (144.1 to 154.1)	149.5 (142.3 to 156.9)	147.8 (142.8 to 152.9)	148.3 (140.2 to 156.3)
Slovenia	70-74 years	148.7 (143.7 to 153.6)	151.1 (143.3 to 158.9)	148.0 (142.9 to 153.4)	149.3 (141.9 to 156.9)
Slovenia	75-79 years	152.7 (147.5 to 158.3)	157.7 (149.9 to 166.2)	149.5 (144.0 to 155.0)	150.8 (142.9 to 158.2)
Slovenia	80+ years	151.9 (146.6 to 157.4)	158.6 (150.4 to 166.8)	148.8 (143.6 to 154.0)	151.1 (143.1 to 158.8)
Slovenia	Age-standardized	136.0 (134.5 to 137.5)	132.7 (130.6 to 134.6)	136.4 (134.9 to 137.8)	132.0 (129.9 to 134.1)
Belarus	25-29 years	122.8 (117.4 to 128.2)	117.6 (111.1 to 125.0)	124.0 (118.6 to 129.8)	118.5 (112.0 to 125.1)
Belarus	30-34 years	127.6 (122.2 to 133.5)	120.0 (113.8 to 126.5)	129.2 (123.4 to 135.6)	121.4 (114.0 to 128.7)
Belarus	35-39 years	129.1 (123.3 to 135.4)	124.0 (116.9 to 131.5)	129.6 (123.7 to 136.0)	122.6 (115.7 to 130.5)
Belarus	40-44 years	130.3 (124.4 to 136.2)	128.2 (120.9 to 136.0)	131.2 (125.7 to 137.4)	127.6 (120.1 to 134.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Belarus	45-49 years	133.9 (127.9 to 140.0)	133.6 (125.7 to 140.7)	134.8 (128.8 to 140.8)	132.4 (125.0 to 139.9)
Belarus	50-54 years	136.8 (130.4 to 143.5)	138.1 (129.9 to 146.1)	139.2 (132.9 to 145.8)	136.2 (129.0 to 144.5)
Belarus	55-59 years	140.4 (134.4 to 146.7)	143.9 (136.1 to 152.2)	140.8 (134.5 to 146.9)	140.7 (132.7 to 149.2)
Belarus	60-64 years	142.9 (136.2 to 149.3)	147.7 (139.5 to 156.0)	143.2 (136.6 to 149.9)	144.3 (136.3 to 152.9)
Belarus	65-69 years	143.7 (137.0 to 150.4)	148.3 (140.1 to 157.1)	145.8 (139.2 to 152.6)	147.0 (138.8 to 156.1)
Belarus	70-74 years	143.2 (137.3 to 149.9)	149.4 (140.9 to 158.4)	145.8 (139.2 to 152.3)	147.8 (139.2 to 156.4)
Belarus	75-79 years	145.8 (139.3 to 152.6)	149.9 (141.3 to 159.1)	148.3 (141.8 to 155.1)	150.6 (142.2 to 159.6)
Belarus	80+ years	143.5 (137.2 to 149.9)	150.3 (141.8 to 158.3)	146.1 (139.5 to 152.9)	149.6 (141.2 to 158.8)
Belarus	Age-standardized	133.9 (132.1 to 135.7)	133.0 (130.8 to 135.3)	135.2 (133.1 to 137.2)	132.2 (130.0 to 134.5)
Estonia	25-29 years	119.6 (116.4 to 122.5)	111.2 (107.0 to 115.9)	119.5 (114.4 to 124.9)	110.6 (104.5 to 117.3)
Estonia	30-34 years	128.3 (125.6 to 131.1)	116.6 (112.5 to 120.8)	126.6 (120.9 to 132.4)	113.6 (107.3 to 120.1)
Estonia	35-39 years	129.6 (126.7 to 132.5)	120.4 (116.0 to 124.9)	127.9 (122.2 to 133.9)	116.5 (109.8 to 123.3)
Estonia	40-44 years	134.7 (131.6 to 137.6)	126.6 (122.0 to 131.1)	130.3 (124.5 to 136.7)	122.6 (116.0 to 129.6)
Estonia	45-49 years	138.9 (135.7 to 141.9)	133.1 (128.4 to 138.3)	133.9 (128.4 to 139.7)	127.8 (120.6 to 134.9)
Estonia	50-54 years	143.3 (140.2 to 146.5)	141.3 (136.5 to 146.1)	142.1 (136.3 to 148.6)	135.4 (128.3 to 143.1)
Estonia	55-59 years	146.4 (141.2 to 151.8)	146.7 (140.0 to 153.9)	142.9 (136.2 to 149.4)	141.2 (133.2 to 149.6)
Estonia	60-64 years	151.0 (145.1 to 157.4)	152.8 (145.1 to 160.0)	149.4 (143.2 to 156.6)	149.3 (140.6 to 157.9)
Estonia	65-69 years	151.7 (144.9 to 158.5)	153.9 (145.4 to 162.3)	151.1 (144.2 to 159.0)	151.4 (142.8 to 160.0)
Estonia	70-74 years	151.2 (144.2 to 158.7)	154.7 (146.2 to 163.5)	151.1 (144.4 to 158.4)	152.6 (144.2 to 161.5)
Estonia	75-79 years	153.1 (146.4 to 160.1)	156.4 (147.6 to 165.1)	153.0 (146.0 to 160.5)	154.5 (145.9 to 163.1)
Estonia	80+ years	152.7 (145.8 to 159.9)	157.5 (148.4 to 166.8)	152.8 (145.5 to 159.9)	155.5 (146.9 to 164.4)
Estonia	Age-standardized	137.6 (136.4 to 138.8)	133.1 (131.4 to 134.8)	135.7 (133.7 to 137.5)	129.6 (127.3 to 131.7)
Latvia	25-29 years	123.1 (117.4 to 129.0)	117.6 (111.0 to 124.6)	124.2 (118.8 to 129.8)	118.6 (112.1 to 126.1)
Latvia	30-34 years	127.9 (122.1 to 133.7)	120.0 (113.0 to 127.3)	129.3 (123.3 to 135.1)	121.5 (114.8 to 128.7)
Latvia	35-39 years	129.5 (123.7 to 135.6)	124.3 (117.0 to 131.7)	129.7 (124.6 to 135.7)	122.8 (116.5 to 129.9)
Latvia	40-44 years	130.5 (124.7 to 136.5)	128.4 (121.2 to 136.2)	131.3 (125.2 to 137.5)	128.2 (121.2 to 135.9)
Latvia	45-49 years	134.3 (128.3 to 140.4)	133.8 (126.2 to 141.4)	135.1 (128.7 to 141.7)	132.5 (124.6 to 140.5)
Latvia	50-54 years	137.1 (131.0 to 143.7)	138.3 (130.8 to 146.2)	139.4 (133.4 to 145.0)	136.4 (128.4 to 144.5)
Latvia	55-59 years	140.5 (134.4 to 146.4)	144.2 (136.0 to 152.6)	141.1 (135.3 to 147.1)	140.9 (132.8 to 149.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Latvia	60-64 years	143.2 (136.8 to 149.8)	148.1 (140.3 to 156.5)	143.5 (137.3 to 150.2)	144.6 (136.3 to 152.9)
Latvia	65-69 years	144.4 (138.1 to 150.8)	148.7 (140.0 to 157.7)	146.0 (139.6 to 152.9)	147.2 (139.0 to 155.9)
Latvia	70-74 years	143.8 (137.3 to 150.9)	150.1 (142.0 to 158.8)	146.2 (139.4 to 152.9)	148.5 (140.3 to 157.4)
Latvia	75-79 years	146.0 (139.4 to 152.6)	150.8 (142.1 to 159.5)	148.4 (140.9 to 154.7)	151.7 (143.0 to 160.9)
Latvia	80+ years	143.9 (137.6 to 150.5)	150.8 (142.5 to 159.5)	146.5 (139.6 to 153.4)	150.3 (141.8 to 158.8)
Latvia	Age-standardized	134.2 (132.2 to 136.2)	133.3 (131.1 to 135.6)	135.4 (133.4 to 137.2)	132.5 (130.2 to 134.7)
Lithuania	25-29 years	128.7 (125.3 to 132.3)	123.4 (119.2 to 127.3)	128.2 (122.1 to 134.3)	122.7 (116.1 to 129.8)
Lithuania	30-34 years	134.7 (131.0 to 138.3)	126.0 (121.8 to 130.0)	133.7 (127.6 to 140.3)	124.7 (117.6 to 132.0)
Lithuania	35-39 years	133.5 (131.0 to 136.2)	126.0 (123.0 to 129.0)	133.5 (127.4 to 139.9)	124.1 (116.7 to 130.9)
Lithuania	40-44 years	133.8 (131.1 to 136.5)	129.2 (126.4 to 132.4)	133.9 (127.8 to 140.2)	128.2 (120.6 to 135.9)
Lithuania	45-49 years	137.5 (135.2 to 140.0)	135.5 (132.7 to 138.4)	136.7 (131.7 to 142.3)	133.6 (126.9 to 140.1)
Lithuania	50-54 years	140.2 (137.8 to 142.8)	139.0 (136.2 to 141.9)	139.2 (133.7 to 144.9)	137.2 (130.8 to 143.5)
Lithuania	55-59 years	143.5 (141.1 to 146.0)	144.6 (141.5 to 147.5)	142.1 (136.8 to 148.0)	140.8 (134.2 to 148.0)
Lithuania	60-64 years	145.5 (143.0 to 148.1)	147.7 (144.7 to 150.8)	144.1 (138.4 to 149.7)	143.8 (136.6 to 150.9)
Lithuania	65-69 years	146.8 (140.4 to 153.7)	150.5 (142.2 to 159.0)	146.4 (140.2 to 153.8)	147.0 (138.0 to 155.5)
Lithuania	70-74 years	146.9 (140.3 to 153.6)	151.8 (143.1 to 161.0)	146.8 (140.1 to 153.9)	148.1 (139.1 to 156.6)
Lithuania	75-79 years	148.8 (142.3 to 155.9)	152.8 (143.9 to 160.9)	148.6 (142.2 to 155.5)	150.0 (141.6 to 158.8)
Lithuania	80+ years	148.5 (142.0 to 154.8)	154.2 (145.4 to 163.4)	148.6 (142.1 to 155.7)	150.9 (142.6 to 159.7)
Lithuania	Age-standardized	138.2 (137.0 to 139.3)	135.7 (134.5 to 137.0)	137.6 (135.8 to 139.4)	133.6 (131.3 to 135.7)
Moldova	25-29 years	122.9 (117.5 to 128.8)	119.3 (113.1 to 126.1)	123.9 (119.3 to 129.3)	118.3 (113.1 to 123.7)
Moldova	30-34 years	128.3 (122.6 to 134.3)	122.0 (115.1 to 129.1)	129.7 (124.6 to 134.7)	122.4 (116.9 to 128.0)
Moldova	35-39 years	128.4 (122.7 to 134.2)	124.7 (117.7 to 131.7)	130.5 (125.4 to 135.4)	124.1 (118.7 to 129.9)
Moldova	40-44 years	129.0 (123.1 to 134.7)	128.4 (121.5 to 135.5)	131.1 (126.1 to 136.2)	128.2 (122.3 to 134.0)
Moldova	45-49 years	133.4 (127.4 to 139.7)	134.3 (126.9 to 141.9)	135.8 (130.5 to 140.7)	136.1 (129.9 to 142.8)
Moldova	50-54 years	136.3 (130.0 to 142.8)	138.2 (130.6 to 146.0)	139.2 (133.7 to 144.7)	140.1 (134.0 to 146.4)
Moldova	55-59 years	139.8 (133.4 to 146.4)	142.5 (134.6 to 150.6)	141.7 (136.3 to 147.4)	144.0 (137.2 to 150.2)
Moldova	60-64 years	142.2 (136.0 to 149.5)	146.1 (138.0 to 154.2)	145.4 (139.6 to 150.9)	148.9 (142.4 to 156.0)
Moldova	65-69 years	143.9 (137.5 to 150.7)	148.6 (140.0 to 157.7)	148.9 (142.8 to 155.1)	153.0 (146.0 to 160.3)
Moldova	70-74 years	143.4 (136.9 to 150.3)	149.7 (141.7 to 158.3)	148.2 (141.3 to 155.2)	152.7 (144.2 to 162.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Moldova	75-79 years	145.6 (139.4 to 152.4)	150.6 (141.9 to 159.2)	150.6 (143.3 to 157.4)	155.0 (146.4 to 163.9)
Moldova	80+ years	144.3 (137.7 to 150.7)	151.7 (143.1 to 160.6)	149.2 (142.7 to 156.0)	155.1 (146.2 to 164.4)
Moldova	Age-standardized	133.6 (131.7 to 135.4)	133.6 (131.4 to 135.9)	136.1 (134.5 to 137.7)	134.8 (132.7 to 136.7)
Russia	25-29 years	123.3 (120.7 to 126.0)	117.2 (114.5 to 119.9)	122.0 (116.3 to 128.1)	117.1 (110.7 to 124.0)
Russia	30-34 years	127.4 (125.3 to 129.6)	118.9 (116.6 to 121.3)	126.2 (121.2 to 131.6)	121.2 (115.0 to 127.5)
Russia	35-39 years	129.0 (127.1 to 130.8)	124.2 (122.2 to 126.0)	125.1 (120.0 to 130.4)	117.1 (111.1 to 123.1)
Russia	40-44 years	129.4 (127.6 to 131.2)	127.8 (125.7 to 129.8)	127.6 (122.2 to 133.0)	127.3 (120.6 to 134.0)
Russia	45-49 years	132.8 (131.0 to 134.6)	133.2 (131.0 to 135.6)	130.7 (125.5 to 136.2)	128.6 (122.3 to 135.1)
Russia	50-54 years	135.3 (133.5 to 137.2)	137.4 (135.1 to 139.7)	140.3 (134.4 to 146.4)	133.2 (126.7 to 139.8)
Russia	55-59 years	138.9 (137.1 to 140.7)	143.6 (141.4 to 145.8)	138.8 (133.3 to 144.4)	138.7 (132.2 to 145.0)
Russia	60-64 years	141.1 (139.2 to 143.2)	147.2 (144.7 to 149.6)	141.4 (136.3 to 147.3)	142.0 (135.2 to 149.4)
Russia	65-69 years	142.3 (138.5 to 146.1)	146.3 (141.5 to 151.1)	144.8 (138.9 to 150.3)	143.9 (137.2 to 150.9)
Russia	70-74 years	142.3 (138.3 to 146.2)	149.6 (144.8 to 154.5)	146.0 (140.5 to 151.4)	146.5 (139.9 to 153.7)
Russia	75-79 years	144.6 (140.5 to 148.7)	147.9 (143.2 to 152.8)	148.9 (143.1 to 155.2)	150.0 (143.2 to 157.0)
Russia	80+ years	141.5 (137.6 to 145.7)	147.9 (142.8 to 153.0)	145.8 (140.1 to 152.1)	147.4 (140.7 to 154.1)
Russia	Age-standardized	133.1 (132.3 to 133.8)	132.4 (131.6 to 133.3)	133.0 (131.3 to 134.7)	130.0 (127.9 to 132.0)
Ukraine	25-29 years	125.1 (119.4 to 130.8)	118.8 (111.8 to 126.4)	125.5 (119.9 to 131.7)	118.5 (111.9 to 125.2)
Ukraine	30-34 years	130.3 (124.5 to 136.2)	121.3 (114.8 to 128.0)	131.0 (125.9 to 136.1)	121.1 (115.1 to 127.4)
Ukraine	35-39 years	132.6 (126.7 to 139.2)	125.4 (118.3 to 132.9)	133.1 (127.7 to 138.2)	124.9 (119.1 to 130.6)
Ukraine	40-44 years	134.3 (128.2 to 140.5)	129.9 (122.8 to 136.9)	134.7 (129.3 to 140.5)	129.2 (123.1 to 136.2)
Ukraine	45-49 years	138.5 (131.8 to 144.9)	134.7 (127.4 to 142.7)	138.6 (132.8 to 144.6)	134.0 (127.6 to 140.8)
Ukraine	50-54 years	141.2 (134.8 to 148.2)	138.9 (130.5 to 146.3)	142.0 (135.5 to 149.0)	137.9 (130.0 to 145.8)
Ukraine	55-59 years	144.4 (137.9 to 151.2)	143.0 (134.4 to 151.7)	144.7 (138.0 to 151.4)	142.0 (133.7 to 149.6)
Ukraine	60-64 years	147.2 (140.6 to 153.8)	146.6 (138.1 to 155.4)	147.5 (140.8 to 154.0)	145.8 (137.7 to 154.8)
Ukraine	65-69 years	148.3 (141.7 to 155.6)	149.0 (140.5 to 158.4)	149.4 (142.7 to 156.3)	148.1 (139.3 to 156.4)
Ukraine	70-74 years	148.1 (141.6 to 155.1)	149.9 (141.4 to 159.1)	149.3 (142.3 to 156.4)	149.4 (141.1 to 158.3)
Ukraine	75-79 years	150.2 (143.7 to 157.4)	151.6 (142.7 to 160.1)	151.3 (144.6 to 158.2)	151.4 (143.2 to 160.1)
Ukraine	80+ years	149.7 (143.3 to 156.2)	152.5 (144.0 to 161.0)	151.2 (144.3 to 158.4)	152.0 (143.2 to 160.9)
Ukraine	Age-standardized	137.7 (135.8 to 139.7)	133.9 (131.5 to 136.3)	138.3 (136.5 to 140.2)	133.4 (131.3 to 135.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Brunei	25-29 years	121.3 (117.3 to 125.5)	113.6 (109.3 to 117.9)	117.0 (113.2 to 121.2)	108.5 (104.1 to 112.9)
Brunei	30-34 years	126.3 (121.7 to 131.0)	117.4 (112.8 to 122.1)	121.9 (117.6 to 126.2)	111.3 (106.3 to 115.7)
Brunei	35-39 years	127.1 (123.0 to 131.5)	119.6 (115.1 to 124.1)	122.8 (118.8 to 126.8)	113.1 (108.6 to 117.6)
Brunei	40-44 years	129.7 (125.6 to 134.2)	125.1 (119.8 to 129.9)	124.4 (120.1 to 128.5)	117.5 (112.9 to 122.0)
Brunei	45-49 years	132.7 (128.2 to 137.5)	129.2 (124.0 to 134.5)	127.1 (122.6 to 131.3)	121.3 (116.6 to 126.2)
Brunei	50-54 years	136.4 (131.7 to 141.5)	134.5 (129.3 to 139.8)	130.3 (125.9 to 134.5)	126.0 (120.7 to 130.9)
Brunei	55-59 years	139.5 (134.9 to 144.6)	137.9 (132.5 to 143.0)	133.3 (128.4 to 137.9)	129.6 (124.7 to 134.6)
Brunei	60-64 years	142.6 (137.3 to 147.8)	141.7 (136.4 to 147.5)	135.8 (131.3 to 140.4)	133.6 (128.2 to 139.3)
Brunei	65-69 years	144.9 (140.0 to 150.0)	144.9 (139.3 to 150.8)	138.0 (133.3 to 142.4)	137.0 (131.8 to 142.5)
Brunei	70-74 years	145.7 (140.9 to 150.9)	147.2 (141.5 to 153.0)	138.4 (133.9 to 143.2)	138.9 (133.4 to 144.5)
Brunei	75-79 years	147.3 (142.2 to 152.5)	148.8 (142.6 to 154.8)	139.9 (135.1 to 144.9)	140.4 (134.5 to 146.4)
Brunei	80+ years	146.9 (142.0 to 152.2)	149.5 (143.4 to 155.4)	139.5 (134.7 to 144.4)	141.2 (136.0 to 147.2)
Brunei	Age-standardized	133.3 (131.9 to 134.8)	129.3 (127.8 to 130.8)	127.8 (126.5 to 129.1)	122.0 (120.6 to 123.6)
Japan	25-29 years	122.2 (121.1 to 123.1)	113.8 (112.9 to 114.8)	117.4 (116.5 to 118.3)	107.1 (106.2 to 108.1)
Japan	30-34 years	127.3 (126.4 to 128.2)	118.5 (117.5 to 119.4)	122.8 (121.8 to 123.8)	110.6 (109.6 to 111.6)
Japan	35-39 years	128.1 (127.2 to 128.9)	120.1 (119.2 to 121.1)	123.7 (122.8 to 124.6)	112.2 (111.3 to 113.2)
Japan	40-44 years	131.7 (130.9 to 132.6)	126.9 (126.0 to 127.9)	125.7 (124.7 to 126.7)	116.9 (115.9 to 118.0)
Japan	45-49 years	134.3 (133.5 to 135.3)	130.5 (129.4 to 131.6)	128.3 (127.3 to 129.3)	120.3 (119.3 to 121.3)
Japan	50-54 years	138.8 (137.9 to 139.8)	136.3 (135.2 to 137.3)	133.5 (132.6 to 134.4)	126.3 (125.3 to 127.3)
Japan	55-59 years	141.4 (140.5 to 142.3)	139.4 (138.4 to 140.4)	136.0 (135.1 to 136.9)	129.4 (128.5 to 130.4)
Japan	60-64 years	144.8 (143.9 to 145.8)	142.9 (141.9 to 144.0)	138.4 (137.5 to 139.4)	133.5 (132.4 to 134.5)
Japan	65-69 years	147.2 (146.2 to 148.1)	146.1 (145.1 to 147.2)	141.0 (140.0 to 142.0)	136.9 (135.8 to 138.1)
Japan	70-74 years	148.4 (147.4 to 149.3)	149.3 (148.2 to 150.4)	141.9 (140.9 to 142.9)	139.1 (138.0 to 140.2)
Japan	75-79 years	149.4 (148.5 to 150.4)	150.4 (149.4 to 151.5)	143.1 (142.2 to 144.2)	140.2 (139.2 to 141.3)
Japan	80+ years	148.6 (147.8 to 149.6)	150.8 (149.8 to 151.9)	142.4 (141.5 to 143.2)	140.7 (139.7 to 141.7)
Japan	Age-standardized	135.0 (134.7 to 135.2)	130.5 (130.2 to 130.8)	129.5 (129.2 to 129.8)	121.5 (121.2 to 121.8)
South Korea	25-29 years	112.5 (108.9 to 116.4)	107.9 (103.8 to 112.3)	112.2 (108.9 to 115.5)	105.7 (102.4 to 108.5)
South Korea	30-34 years	120.8 (116.9 to 124.7)	115.1 (111.1 to 119.0)	117.2 (113.7 to 121.0)	108.0 (104.8 to 111.4)
South Korea	35-39 years	121.1 (117.3 to 125.1)	116.9 (113.1 to 121.0)	117.8 (114.3 to 121.4)	109.8 (106.5 to 113.0)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
South Korea	40-44 years	121.5 (117.4 to 125.3)	119.3 (115.4 to 123.3)	119.4 (115.9 to 122.9)	113.8 (110.5 to 117.2)
South Korea	45-49 years	123.9 (120.0 to 128.0)	123.3 (119.3 to 126.9)	121.9 (118.4 to 125.7)	117.3 (114.0 to 120.8)
South Korea	50-54 years	127.0 (123.0 to 131.2)	127.5 (123.4 to 132.0)	124.2 (120.7 to 128.1)	121.4 (118.0 to 125.0)
South Korea	55-59 years	129.9 (125.6 to 133.8)	131.2 (127.2 to 135.6)	126.5 (123.0 to 130.2)	124.6 (120.9 to 128.3)
South Korea	60-64 years	132.5 (128.4 to 136.6)	135.9 (131.4 to 140.6)	128.0 (124.3 to 131.7)	127.8 (123.8 to 131.4)
South Korea	65-69 years	134.4 (130.1 to 138.7)	140.0 (135.2 to 144.9)	129.6 (126.0 to 133.5)	130.6 (127.0 to 134.6)
South Korea	70-74 years	136.0 (131.5 to 140.6)	141.5 (136.5 to 146.6)	129.5 (125.9 to 133.3)	132.0 (128.4 to 135.7)
South Korea	75-79 years	138.5 (134.3 to 143.3)	141.8 (136.8 to 146.6)	130.3 (126.6 to 134.6)	133.0 (129.2 to 136.8)
South Korea	80+ years	135.6 (131.0 to 140.9)	143.4 (138.5 to 148.2)	129.4 (125.6 to 133.4)	133.2 (129.4 to 137.3)
South Korea	Age-standardized	124.9 (123.7 to 126.1)	124.1 (122.8 to 125.4)	121.6 (120.6 to 122.8)	117.6 (116.6 to 118.6)
Singapore	25-29 years	123.5 (119.3 to 127.5)	119.7 (115.1 to 124.3)	123.4 (120.0 to 127.1)	118.1 (114.2 to 122.1)
Singapore	30-34 years	129.2 (124.8 to 133.5)	122.7 (118.0 to 127.8)	129.1 (125.0 to 133.1)	120.9 (116.6 to 125.2)
Singapore	35-39 years	130.1 (125.6 to 134.3)	124.6 (120.1 to 129.5)	130.0 (126.3 to 134.1)	122.7 (118.7 to 126.6)
Singapore	40-44 years	130.7 (126.5 to 135.0)	128.0 (123.0 to 133.0)	130.4 (126.6 to 134.4)	125.9 (121.4 to 130.1)
Singapore	45-49 years	133.4 (129.3 to 138.0)	131.8 (126.7 to 136.9)	133.2 (129.7 to 137.4)	129.5 (125.3 to 133.9)
Singapore	50-54 years	136.1 (131.7 to 140.8)	135.4 (130.0 to 140.6)	135.5 (131.6 to 139.6)	133.1 (128.9 to 137.9)
Singapore	55-59 years	138.8 (134.2 to 143.5)	138.7 (133.5 to 144.3)	138.2 (133.9 to 142.4)	136.2 (131.6 to 141.3)
Singapore	60-64 years	140.8 (136.4 to 145.7)	142.0 (136.5 to 147.1)	140.9 (137.9 to 144.0)	139.0 (135.3 to 142.6)
Singapore	65-69 years	143.1 (138.7 to 148.2)	144.9 (139.4 to 150.5)	143.8 (140.7 to 146.8)	143.2 (139.4 to 147.0)
Singapore	70-74 years	143.2 (138.6 to 148.0)	146.0 (140.1 to 151.6)	143.5 (140.4 to 146.9)	143.8 (140.1 to 147.2)
Singapore	75-79 years	144.5 (139.8 to 149.3)	147.2 (141.7 to 153.3)	145.8 (142.5 to 149.3)	146.0 (142.3 to 149.7)
Singapore	80+ years	143.9 (139.3 to 148.6)	147.8 (142.1 to 153.4)	145.2 (142.1 to 148.4)	146.4 (142.6 to 150.4)
Singapore	Age-standardized	133.9 (132.5 to 135.2)	131.9 (130.4 to 133.5)	133.8 (132.6 to 135.0)	129.9 (128.7 to 131.3)
Australia	25-29 years	121.6 (119.1 to 124.1)	110.2 (107.4 to 113.0)	118.2 (116.1 to 120.4)	112.3 (109.6 to 115.2)
Australia	30-34 years	124.6 (122.8 to 126.4)	112.2 (110.2 to 114.5)	123.7 (121.5 to 126.0)	115.0 (112.4 to 117.7)
Australia	35-39 years	126.0 (124.6 to 127.4)	116.7 (115.1 to 118.4)	124.6 (122.4 to 126.9)	116.7 (113.8 to 119.6)
Australia	40-44 years	126.5 (125.1 to 127.8)	119.8 (118.2 to 121.6)	124.6 (122.4 to 126.8)	120.8 (117.9 to 123.6)
Australia	45-49 years	130.3 (128.9 to 131.9)	125.8 (124.1 to 127.6)	127.1 (124.7 to 129.4)	124.4 (121.3 to 127.4)
Australia	50-54 years	133.5 (131.9 to 135.1)	130.0 (128.1 to 131.9)	129.5 (127.1 to 131.8)	127.4 (124.4 to 130.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Australia	55-59 years	138.0 (136.3 to 139.6)	134.7 (132.8 to 136.7)	132.0 (129.5 to 134.3)	130.7 (127.8 to 133.9)
Australia	60-64 years	139.9 (138.4 to 141.4)	138.0 (136.2 to 139.9)	133.9 (131.4 to 136.2)	133.5 (130.3 to 136.7)
Australia	65-69 years	144.3 (142.2 to 146.6)	147.7 (144.6 to 150.5)	135.8 (133.4 to 138.2)	136.7 (133.6 to 139.9)
Australia	70-74 years	140.9 (137.9 to 143.8)	142.5 (138.6 to 146.4)	135.6 (133.3 to 138.1)	136.9 (133.6 to 140.1)
Australia	75-79 years	145.2 (142.2 to 148.5)	145.3 (141.2 to 149.5)	136.6 (134.3 to 139.1)	138.0 (134.5 to 141.5)
Australia	80+ years	144.3 (141.4 to 147.3)	149.4 (145.4 to 153.2)	135.9 (133.4 to 138.3)	138.7 (135.1 to 142.1)
Australia	Age-standardized	131.4 (130.9 to 132.0)	125.8 (125.1 to 126.5)	127.6 (126.9 to 128.3)	124.0 (123.2 to 124.8)
New Zealand	25-29 years	120.0 (117.8 to 122.2)	110.2 (107.9 to 112.6)	122.9 (120.3 to 125.6)	109.5 (106.5 to 112.7)
New Zealand	30-34 years	124.2 (122.1 to 126.3)	113.1 (110.7 to 115.5)	127.2 (124.5 to 130.2)	113.0 (110.1 to 116.0)
New Zealand	35-39 years	124.4 (122.8 to 126.3)	114.8 (112.8 to 116.8)	127.6 (124.9 to 130.4)	115.1 (112.0 to 118.2)
New Zealand	40-44 years	125.0 (123.2 to 126.7)	118.2 (116.3 to 120.0)	128.3 (125.5 to 131.0)	117.9 (114.5 to 121.2)
New Zealand	45-49 years	129.6 (127.8 to 131.5)	125.5 (123.5 to 127.7)	130.8 (127.8 to 133.7)	121.3 (118.1 to 124.8)
New Zealand	50-54 years	132.2 (130.1 to 134.2)	128.8 (126.6 to 131.0)	133.1 (130.2 to 136.0)	125.1 (121.6 to 128.5)
New Zealand	55-59 years	135.4 (133.3 to 137.5)	132.4 (130.1 to 134.7)	135.7 (132.6 to 138.9)	128.6 (125.2 to 132.4)
New Zealand	60-64 years	140.2 (138.0 to 142.3)	139.3 (136.7 to 141.9)	137.4 (134.2 to 140.5)	131.3 (127.7 to 134.8)
New Zealand	65-69 years	145.7 (143.1 to 148.2)	146.4 (143.3 to 149.6)	139.4 (136.2 to 142.5)	134.5 (130.5 to 138.2)
New Zealand	70-74 years	145.8 (143.2 to 148.4)	147.3 (144.4 to 150.3)	139.2 (136.2 to 142.3)	139.2 (135.3 to 142.9)
New Zealand	75-79 years	146.5 (144.1 to 149.1)	148.8 (145.9 to 151.9)	140.4 (137.2 to 143.7)	142.4 (138.6 to 146.5)
New Zealand	80+ years	145.9 (143.5 to 148.5)	149.4 (146.4 to 152.5)	139.5 (136.3 to 142.7)	143.0 (139.1 to 146.8)
New Zealand	Age-standardized	130.8 (130.2 to 131.5)	125.6 (124.9 to 126.3)	131.3 (130.4 to 132.1)	122.3 (121.3 to 123.3)
Andorra	25-29 years	124.0 (117.6 to 131.3)	115.4 (108.2 to 122.2)	121.8 (115.6 to 128.4)	112.9 (105.8 to 120.7)
Andorra	30-34 years	129.2 (122.3 to 135.7)	118.5 (110.9 to 126.2)	127.1 (120.8 to 133.8)	115.2 (107.9 to 122.6)
Andorra	35-39 years	129.6 (123.0 to 136.7)	120.9 (113.2 to 129.4)	127.5 (120.6 to 134.7)	117.0 (109.3 to 124.9)
Andorra	40-44 years	130.7 (124.1 to 138.2)	125.0 (117.0 to 133.3)	128.4 (121.8 to 135.4)	120.7 (112.7 to 128.5)
Andorra	45-49 years	134.0 (127.0 to 141.5)	129.7 (121.8 to 138.2)	131.3 (124.7 to 138.6)	124.6 (116.0 to 132.5)
Andorra	50-54 years	137.3 (130.0 to 144.9)	133.9 (125.6 to 143.4)	134.1 (126.6 to 141.4)	128.4 (120.1 to 137.2)
Andorra	55-59 years	140.6 (133.5 to 148.3)	138.1 (130.0 to 147.2)	136.9 (129.6 to 144.2)	132.0 (123.6 to 141.5)
Andorra	60-64 years	143.7 (136.2 to 151.3)	141.9 (132.9 to 151.3)	139.4 (132.5 to 146.7)	135.5 (126.9 to 144.4)
Andorra	65-69 years	146.3 (138.3 to 154.5)	145.5 (136.1 to 156.0)	141.0 (133.7 to 148.0)	138.8 (129.4 to 148.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Andorra	70-74 years	147.7 (140.5 to 155.1)	147.6 (138.5 to 157.8)	141.1 (134.0 to 148.0)	140.8 (131.7 to 150.6)
Andorra	75-79 years	149.8 (141.1 to 157.9)	149.8 (140.4 to 159.8)	142.7 (135.1 to 150.6)	142.3 (133.0 to 151.3)
Andorra	80+ years	149.5 (141.6 to 157.3)	150.5 (140.7 to 160.5)	143.6 (136.6 to 151.8)	144.1 (135.3 to 152.9)
Andorra	Age-standardized	135.2 (133.0 to 137.4)	130.0 (127.5 to 132.4)	131.9 (129.8 to 134.2)	125.2 (122.6 to 127.7)
Austria	25-29 years	123.5 (119.2 to 128.0)	116.3 (111.4 to 121.1)	122.5 (116.3 to 129.5)	113.8 (106.7 to 121.1)
Austria	30-34 years	129.2 (125.1 to 134.1)	119.0 (114.6 to 124.2)	127.8 (121.5 to 134.9)	116.0 (109.1 to 123.9)
Austria	35-39 years	128.8 (124.2 to 134.1)	121.0 (116.0 to 125.7)	128.3 (121.9 to 134.9)	118.4 (111.0 to 126.9)
Austria	40-44 years	129.0 (124.7 to 133.6)	124.4 (119.8 to 129.4)	128.9 (122.3 to 135.6)	121.6 (114.5 to 129.4)
Austria	45-49 years	133.5 (128.9 to 138.5)	131.3 (125.8 to 137.0)	131.8 (125.0 to 138.7)	127.0 (118.7 to 135.4)
Austria	50-54 years	136.1 (131.2 to 140.8)	135.1 (129.8 to 140.9)	134.9 (128.1 to 141.9)	131.2 (122.3 to 139.8)
Austria	55-59 years	139.3 (134.0 to 144.5)	140.3 (134.5 to 146.1)	138.6 (131.6 to 146.2)	135.7 (126.9 to 145.1)
Austria	60-64 years	141.8 (136.9 to 147.0)	143.5 (137.4 to 149.5)	141.0 (133.8 to 148.8)	139.2 (129.6 to 149.1)
Austria	65-69 years	144.4 (136.9 to 152.5)	146.2 (137.1 to 155.4)	142.7 (135.6 to 150.3)	141.6 (132.7 to 151.3)
Austria	70-74 years	145.4 (138.0 to 153.0)	148.1 (139.5 to 156.7)	142.7 (135.5 to 150.7)	143.0 (134.3 to 152.8)
Austria	75-79 years	147.6 (139.6 to 156.5)	149.8 (139.6 to 159.7)	144.7 (137.2 to 152.3)	144.9 (135.9 to 154.4)
Austria	80+ years	147.5 (139.9 to 155.0)	151.0 (140.9 to 161.4)	144.9 (137.9 to 152.2)	146.9 (137.4 to 156.4)
Austria	Age-standardized	134.1 (132.5 to 135.6)	130.7 (129.0 to 132.5)	132.9 (130.8 to 135.0)	127.2 (124.6 to 129.7)
Belgium	25-29 years	120.1 (116.9 to 123.2)	111.7 (108.6 to 115.2)	121.2 (115.5 to 126.8)	116.0 (109.5 to 123.3)
Belgium	30-34 years	125.9 (122.8 to 129.0)	114.2 (110.7 to 117.8)	126.8 (120.9 to 132.5)	118.4 (112.2 to 124.8)
Belgium	35-39 years	125.0 (122.9 to 127.1)	116.2 (113.3 to 118.9)	127.2 (121.4 to 133.4)	119.8 (113.1 to 126.9)
Belgium	40-44 years	125.7 (123.4 to 127.8)	119.1 (116.5 to 121.9)	127.6 (121.5 to 133.6)	122.6 (115.8 to 129.4)
Belgium	45-49 years	128.7 (126.4 to 130.9)	122.4 (119.5 to 125.4)	130.5 (124.4 to 136.6)	126.4 (119.6 to 133.9)
Belgium	50-54 years	131.0 (128.7 to 133.3)	125.7 (122.9 to 128.6)	132.6 (126.7 to 138.4)	129.7 (122.6 to 137.4)
Belgium	55-59 years	133.7 (131.2 to 136.1)	128.8 (125.8 to 131.8)	135.4 (129.3 to 141.8)	132.6 (125.5 to 139.9)
Belgium	60-64 years	135.7 (133.2 to 138.0)	131.6 (128.9 to 134.6)	137.5 (131.3 to 143.1)	135.8 (127.7 to 143.8)
Belgium	65-69 years	138.4 (131.9 to 145.3)	135.8 (127.4 to 144.4)	139.5 (132.9 to 146.1)	139.7 (132.2 to 147.3)
Belgium	70-74 years	139.0 (131.8 to 146.4)	138.0 (128.9 to 146.9)	139.3 (133.1 to 146.1)	140.8 (133.0 to 148.9)
Belgium	75-79 years	140.7 (133.8 to 147.5)	141.4 (132.0 to 150.4)	140.6 (134.4 to 147.7)	141.7 (133.6 to 150.1)
Belgium	80+ years	140.2 (133.0 to 147.2)	143.1 (134.5 to 152.7)	140.0 (133.6 to 146.3)	142.3 (134.9 to 150.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Belgium	Age-standardized	129.4 (128.4 to 130.4)	123.2 (122.1 to 124.5)	130.8 (128.8 to 132.6)	126.8 (124.6 to 129.1)
Cyprus	25-29 years	123.5 (117.4 to 130.1)	116.4 (108.8 to 124.5)	123.2 (117.0 to 129.8)	114.8 (107.4 to 122.2)
Cyprus	30-34 years	128.9 (121.5 to 135.7)	119.2 (111.5 to 126.9)	128.4 (121.6 to 135.0)	117.2 (109.9 to 124.9)
Cyprus	35-39 years	129.3 (125.4 to 133.1)	121.7 (117.1 to 126.4)	129.0 (122.4 to 136.0)	119.1 (111.3 to 127.2)
Cyprus	40-44 years	129.7 (126.0 to 133.6)	125.0 (120.5 to 129.4)	129.6 (122.5 to 136.8)	122.7 (115.4 to 130.3)
Cyprus	45-49 years	132.5 (128.7 to 136.6)	128.6 (124.1 to 133.2)	132.3 (125.4 to 139.1)	126.3 (118.0 to 135.3)
Cyprus	50-54 years	134.9 (131.1 to 138.8)	132.0 (127.5 to 136.8)	134.9 (127.8 to 141.9)	129.8 (121.8 to 138.6)
Cyprus	55-59 years	137.4 (133.4 to 141.4)	135.2 (131.0 to 139.6)	137.6 (130.5 to 145.1)	133.2 (124.5 to 142.1)
Cyprus	60-64 years	139.6 (135.3 to 143.5)	138.2 (133.3 to 143.0)	139.6 (132.5 to 147.0)	136.5 (127.9 to 145.6)
Cyprus	65-69 years	143.2 (135.9 to 150.7)	143.1 (134.3 to 152.8)	141.6 (134.1 to 148.9)	139.4 (130.4 to 148.6)
Cyprus	70-74 years	144.1 (136.7 to 151.6)	144.7 (135.4 to 153.9)	141.8 (134.1 to 149.1)	140.6 (131.8 to 150.4)
Cyprus	75-79 years	146.0 (138.6 to 153.6)	146.5 (137.2 to 156.8)	143.4 (136.0 to 150.7)	142.3 (133.8 to 151.7)
Cyprus	80+ years	146.3 (138.8 to 154.1)	147.8 (138.3 to 157.4)	143.9 (136.4 to 151.4)	144.1 (135.2 to 153.1)
Cyprus	Age-standardized	133.4 (131.9 to 135.0)	129.0 (127.1 to 131.1)	132.9 (130.8 to 135.1)	126.6 (124.2 to 129.2)
Denmark	25-29 years	123.6 (121.4 to 125.8)	116.1 (113.3 to 119.1)	124.3 (118.6 to 130.8)	119.1 (111.9 to 126.8)
Denmark	30-34 years	130.6 (128.7 to 132.7)	121.7 (118.9 to 124.4)	130.6 (124.0 to 137.4)	121.9 (114.7 to 129.2)
Denmark	35-39 years	129.1 (127.3 to 130.9)	122.0 (119.4 to 124.5)	131.0 (125.0 to 137.8)	123.0 (115.6 to 130.8)
Denmark	40-44 years	129.2 (127.5 to 131.1)	124.9 (122.4 to 127.4)	131.1 (124.3 to 137.7)	125.7 (118.9 to 133.7)
Denmark	45-49 years	132.5 (130.7 to 134.4)	129.2 (126.3 to 132.3)	134.1 (127.9 to 141.2)	129.2 (121.6 to 137.2)
Denmark	50-54 years	133.8 (132.0 to 135.5)	132.4 (129.4 to 135.2)	136.4 (129.9 to 143.5)	132.6 (124.7 to 141.0)
Denmark	55-59 years	137.8 (135.8 to 139.8)	136.0 (133.2 to 138.9)	139.2 (132.7 to 146.1)	136.1 (127.7 to 144.9)
Denmark	60-64 years	139.8 (138.0 to 141.7)	139.0 (136.2 to 141.9)	141.4 (134.3 to 148.7)	139.3 (131.4 to 147.9)
Denmark	65-69 years	146.3 (143.8 to 148.9)	148.4 (145.0 to 152.2)	144.2 (136.9 to 151.5)	144.0 (135.6 to 153.0)
Denmark	70-74 years	146.2 (143.8 to 148.7)	149.3 (145.4 to 153.3)	144.9 (136.9 to 152.1)	146.6 (137.7 to 155.9)
Denmark	75-79 years	147.6 (145.1 to 150.1)	151.2 (147.1 to 154.9)	146.2 (138.9 to 153.4)	147.9 (138.8 to 157.0)
Denmark	80+ years	146.7 (144.3 to 149.2)	151.6 (147.8 to 155.9)	146.0 (139.3 to 153.4)	148.7 (139.2 to 157.9)
Denmark	Age-standardized	133.9 (133.2 to 134.5)	130.3 (129.5 to 131.2)	134.8 (132.7 to 136.9)	130.4 (127.8 to 132.8)
Finland	25-29 years	131.6 (129.5 to 133.8)	123.1 (120.9 to 125.5)	123.2 (118.5 to 128.2)	117.0 (110.7 to 123.2)
Finland	30-34 years	138.0 (135.8 to 140.3)	126.0 (123.7 to 128.3)	129.1 (124.3 to 134.1)	119.7 (114.1 to 125.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Finland	35-39 years	137.6 (135.6 to 139.6)	129.0 (126.7 to 131.4)	131.4 (126.3 to 137.0)	121.6 (115.8 to 127.4)
Finland	40-44 years	137.9 (135.9 to 140.0)	132.5 (130.2 to 134.8)	132.2 (127.2 to 137.5)	125.1 (119.4 to 131.5)
Finland	45-49 years	140.8 (138.8 to 143.0)	137.5 (135.0 to 139.9)	135.0 (130.1 to 140.7)	129.0 (123.3 to 135.1)
Finland	50-54 years	143.4 (141.4 to 145.5)	141.2 (138.7 to 143.7)	139.1 (133.6 to 144.7)	134.4 (128.4 to 141.0)
Finland	55-59 years	147.1 (144.9 to 149.3)	145.4 (142.9 to 147.8)	141.7 (136.3 to 147.2)	137.8 (132.1 to 144.5)
Finland	60-64 years	149.4 (147.3 to 151.7)	148.9 (146.5 to 151.5)	143.7 (138.1 to 149.4)	140.8 (134.3 to 147.4)
Finland	65-69 years	152.6 (148.4 to 157.3)	153.7 (146.8 to 161.0)	144.8 (139.3 to 150.7)	146.0 (139.5 to 153.0)
Finland	70-74 years	152.8 (148.3 to 157.3)	154.4 (147.7 to 161.8)	143.5 (137.6 to 149.6)	145.7 (137.6 to 153.5)
Finland	75-79 years	155.7 (151.2 to 160.6)	157.0 (148.8 to 165.2)	148.4 (140.6 to 156.6)	148.3 (139.0 to 158.6)
Finland	80+ years	154.5 (150.1 to 159.1)	156.4 (149.1 to 164.5)	151.1 (143.3 to 159.1)	152.0 (142.4 to 162.2)
Finland	Age-standardized	142.1 (141.4 to 142.9)	137.5 (136.5 to 138.4)	135.5 (133.9 to 137.2)	130.3 (128.3 to 132.3)
France	25-29 years	124.4 (121.2 to 127.9)	119.2 (116.8 to 121.8)	122.7 (117.3 to 128.7)	111.4 (105.3 to 117.7)
France	30-34 years	129.6 (126.9 to 132.1)	120.3 (118.4 to 122.2)	128.3 (122.4 to 134.5)	114.0 (107.7 to 119.7)
France	35-39 years	128.6 (126.5 to 130.7)	120.7 (118.8 to 122.7)	128.3 (122.7 to 134.2)	115.7 (109.8 to 122.3)
France	40-44 years	128.8 (126.7 to 130.9)	123.8 (121.8 to 125.9)	128.8 (123.4 to 134.8)	118.8 (112.4 to 125.4)
France	45-49 years	132.1 (129.9 to 134.3)	127.7 (125.7 to 130.0)	131.3 (125.4 to 137.7)	122.1 (115.4 to 128.8)
France	50-54 years	134.9 (133.0 to 136.9)	130.4 (128.6 to 132.2)	133.8 (127.8 to 140.3)	125.2 (118.5 to 132.4)
France	55-59 years	138.3 (136.1 to 140.5)	133.9 (131.7 to 136.1)	136.5 (130.7 to 143.0)	128.2 (121.6 to 135.2)
France	60-64 years	140.3 (137.9 to 142.8)	136.8 (134.7 to 139.1)	138.6 (132.0 to 145.3)	131.2 (124.2 to 138.5)
France	65-69 years	143.5 (140.2 to 146.9)	139.0 (136.6 to 141.8)	140.5 (134.0 to 147.0)	132.8 (125.6 to 139.8)
France	70-74 years	144.4 (139.7 to 148.9)	142.9 (138.9 to 147.0)	140.1 (134.0 to 146.4)	133.5 (126.3 to 140.7)
France	75-79 years	145.7 (140.9 to 150.4)	144.0 (139.9 to 148.1)	142.3 (136.0 to 149.1)	137.0 (129.9 to 144.0)
France	80+ years	144.9 (140.1 to 149.1)	144.4 (140.2 to 148.7)	139.3 (132.4 to 146.7)	136.5 (128.8 to 144.5)
France	Age-standardized	133.5 (132.7 to 134.3)	128.3 (127.5 to 129.0)	131.9 (130.2 to 133.8)	122.1 (120.2 to 124.1)
Germany	25-29 years	126.6 (124.6 to 128.7)	117.2 (115.3 to 119.0)	120.9 (116.3 to 125.6)	112.2 (107.2 to 117.2)
Germany	30-34 years	132.6 (130.5 to 134.7)	120.2 (118.4 to 122.0)	124.8 (119.7 to 129.6)	113.1 (108.3 to 118.7)
Germany	35-39 years	132.6 (130.9 to 134.4)	124.7 (123.1 to 126.3)	125.7 (120.7 to 130.9)	114.8 (109.9 to 119.7)
Germany	40-44 years	133.0 (131.3 to 134.9)	127.8 (126.1 to 129.5)	126.1 (121.3 to 130.9)	117.2 (112.1 to 122.4)
Germany	45-49 years	136.2 (134.4 to 138.1)	132.3 (130.5 to 134.0)	128.9 (124.1 to 134.1)	120.3 (115.2 to 125.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Germany	50-54 years	138.8 (136.9 to 140.6)	135.8 (134.1 to 137.5)	130.3 (125.0 to 135.2)	126.6 (121.3 to 132.0)
Germany	55-59 years	142.1 (140.2 to 144.1)	140.1 (138.1 to 142.0)	136.0 (130.8 to 140.7)	131.1 (126.0 to 136.6)
Germany	60-64 years	144.3 (142.4 to 146.4)	143.2 (141.2 to 145.1)	136.4 (131.7 to 141.4)	134.3 (129.0 to 139.4)
Germany	65-69 years	148.3 (142.5 to 154.7)	150.5 (143.2 to 157.9)	137.9 (132.7 to 142.8)	136.7 (130.9 to 142.2)
Germany	70-74 years	150.0 (143.6 to 156.0)	150.7 (143.6 to 157.8)	137.8 (132.8 to 142.7)	138.2 (132.8 to 143.8)
Germany	75-79 years	151.4 (145.0 to 158.1)	154.7 (147.8 to 162.3)	138.1 (133.1 to 142.8)	139.5 (134.1 to 145.2)
Germany	80+ years	148.2 (141.9 to 155.4)	152.1 (143.9 to 160.6)	146.2 (140.3 to 152.5)	149.1 (141.9 to 156.2)
Germany	Age-standardized	137.3 (136.5 to 138.1)	132.5 (131.7 to 133.4)	129.7 (128.3 to 131.2)	123.3 (121.6 to 124.9)
Greece	25-29 years	119.7 (114.8 to 124.5)	115.0 (109.6 to 121.0)	121.9 (116.0 to 128.4)	111.3 (104.3 to 118.4)
Greece	30-34 years	125.4 (120.8 to 130.5)	117.3 (111.5 to 123.2)	127.3 (120.4 to 133.9)	113.6 (106.7 to 121.1)
Greece	35-39 years	125.2 (120.5 to 130.1)	117.7 (112.0 to 123.6)	125.5 (119.3 to 131.7)	113.5 (107.1 to 120.4)
Greece	40-44 years	125.0 (120.4 to 129.7)	120.9 (115.0 to 127.0)	124.3 (118.1 to 130.5)	116.4 (109.1 to 123.7)
Greece	45-49 years	126.9 (121.9 to 131.9)	123.6 (117.3 to 129.7)	126.6 (120.6 to 133.1)	119.0 (112.0 to 126.9)
Greece	50-54 years	129.9 (124.8 to 135.5)	128.2 (121.8 to 134.8)	129.9 (123.4 to 136.4)	123.8 (116.1 to 131.8)
Greece	55-59 years	132.4 (127.1 to 137.5)	132.0 (125.3 to 138.6)	132.7 (126.1 to 139.7)	127.9 (120.5 to 135.9)
Greece	60-64 years	134.6 (129.2 to 140.2)	137.0 (130.2 to 144.2)	135.9 (129.2 to 143.1)	133.3 (125.7 to 141.9)
Greece	65-69 years	139.5 (133.5 to 145.5)	140.6 (133.8 to 147.3)	139.2 (132.9 to 146.2)	137.8 (129.6 to 146.2)
Greece	70-74 years	140.4 (134.1 to 146.7)	141.8 (134.8 to 148.8)	139.2 (132.2 to 146.4)	139.4 (130.8 to 148.0)
Greece	75-79 years	141.0 (134.7 to 147.2)	143.5 (136.6 to 150.7)	140.0 (133.4 to 146.8)	142.0 (133.2 to 150.7)
Greece	80+ years	141.0 (135.1 to 147.4)	147.1 (139.4 to 155.0)	140.5 (133.3 to 147.7)	144.7 (136.1 to 153.6)
Greece	Age-standardized	129.0 (127.4 to 130.5)	126.1 (124.2 to 128.0)	129.4 (127.4 to 131.5)	122.3 (119.9 to 124.8)
Greenland	25-29 years	111.3 (109.7 to 112.9)	107.4 (105.8 to 108.9)	111.4 (109.9 to 113.0)	107.2 (105.5 to 108.8)
Greenland	30-34 years	116.3 (114.9 to 117.9)	109.8 (108.2 to 111.4)	116.8 (115.2 to 118.5)	109.4 (107.7 to 111.0)
Greenland	35-39 years	116.6 (115.3 to 117.9)	111.8 (110.4 to 113.3)	117.4 (115.9 to 118.9)	111.3 (109.6 to 113.2)
Greenland	40-44 years	116.9 (115.6 to 118.3)	114.7 (113.3 to 116.2)	117.8 (116.2 to 119.5)	114.2 (112.6 to 115.9)
Greenland	45-49 years	119.3 (118.0 to 120.7)	118.0 (116.6 to 119.5)	120.0 (118.3 to 121.7)	117.5 (115.8 to 119.2)
Greenland	50-54 years	121.6 (120.3 to 123.0)	121.2 (119.7 to 122.8)	122.2 (120.6 to 123.9)	120.6 (118.8 to 122.5)
Greenland	55-59 years	124.0 (122.6 to 125.4)	124.2 (122.7 to 125.8)	124.5 (122.9 to 126.3)	123.6 (121.7 to 125.3)
Greenland	60-64 years	126.0 (124.5 to 127.4)	127.0 (125.6 to 128.6)	126.5 (124.9 to 128.3)	126.6 (124.8 to 128.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Greenland	65-69 years	128.7 (127.0 to 130.6)	131.0 (129.1 to 133.0)	127.8 (126.0 to 129.6)	129.0 (127.0 to 130.8)
Greenland	70-74 years	129.4 (127.7 to 131.2)	132.8 (130.9 to 134.9)	128.4 (126.6 to 130.1)	130.6 (128.7 to 132.5)
Greenland	75-79 years	131.1 (129.4 to 133.0)	134.9 (132.9 to 136.8)	130.3 (128.5 to 132.0)	132.6 (130.6 to 134.7)
Greenland	80+ years	131.5 (129.7 to 133.3)	136.8 (134.7 to 138.7)	130.8 (129.1 to 132.7)	134.6 (132.7 to 136.7)
Greenland	Age-standardized	120.2 (119.8 to 120.7)	118.6 (118.1 to 119.1)	120.5 (120.0 to 121.1)	117.9 (117.3 to 118.4)
Iceland	25-29 years	118.2 (114.6 to 122.1)	108.1 (104.7 to 111.7)	117.7 (111.3 to 124.0)	107.8 (101.0 to 114.5)
Iceland	30-34 years	123.2 (119.4 to 127.1)	110.0 (106.7 to 113.4)	122.5 (115.9 to 129.2)	110.1 (103.2 to 117.2)
Iceland	35-39 years	121.4 (118.8 to 124.0)	113.6 (110.8 to 116.7)	122.2 (116.0 to 128.9)	113.5 (106.1 to 121.2)
Iceland	40-44 years	121.6 (119.0 to 124.3)	116.7 (113.9 to 119.8)	122.2 (116.2 to 128.5)	116.4 (108.7 to 124.5)
Iceland	45-49 years	123.8 (121.0 to 126.8)	120.4 (117.2 to 123.6)	124.9 (118.8 to 131.9)	120.4 (113.5 to 128.4)
Iceland	50-54 years	126.2 (123.2 to 129.0)	123.8 (120.7 to 127.1)	127.6 (120.8 to 134.8)	124.0 (116.2 to 132.4)
Iceland	55-59 years	129.9 (126.9 to 132.9)	127.9 (124.6 to 131.3)	131.6 (124.7 to 138.7)	129.4 (120.9 to 138.0)
Iceland	60-64 years	131.9 (128.8 to 135.3)	130.8 (127.0 to 134.5)	134.1 (126.9 to 141.5)	135.7 (127.5 to 145.0)
Iceland	65-69 years	135.6 (128.8 to 142.5)	137.5 (129.3 to 145.8)	136.4 (129.9 to 142.8)	141.0 (132.8 to 150.1)
Iceland	70-74 years	135.7 (128.9 to 142.7)	141.8 (132.4 to 150.8)	136.1 (129.7 to 142.7)	141.7 (132.9 to 150.4)
Iceland	75-79 years	136.8 (129.8 to 144.2)	143.5 (134.1 to 152.4)	137.4 (131.2 to 144.3)	142.7 (134.2 to 151.6)
Iceland	80+ years	136.2 (129.2 to 143.0)	143.9 (134.8 to 152.7)	136.8 (130.8 to 143.0)	143.5 (135.2 to 151.9)
Iceland	Age-standardized	125.9 (124.7 to 127.0)	121.5 (120.3 to 122.6)	126.5 (124.5 to 128.5)	122.1 (119.9 to 124.4)
Ireland	25-29 years	126.9 (120.2 to 134.0)	120.4 (112.3 to 128.3)	126.9 (120.1 to 133.9)	118.9 (111.0 to 126.5)
Ireland	30-34 years	132.8 (125.9 to 139.7)	123.1 (115.9 to 130.8)	132.4 (125.6 to 139.8)	121.6 (114.2 to 129.9)
Ireland	35-39 years	133.1 (126.2 to 140.3)	126.3 (118.7 to 134.4)	133.0 (126.1 to 140.2)	124.6 (117.2 to 132.0)
Ireland	40-44 years	136.9 (129.8 to 143.9)	123.8 (116.6 to 131.4)	136.6 (129.9 to 144.3)	122.4 (114.8 to 130.4)
Ireland	45-49 years	134.7 (128.1 to 141.7)	130.8 (122.9 to 139.0)	134.3 (127.1 to 141.8)	128.4 (120.4 to 136.6)
Ireland	50-54 years	137.7 (130.7 to 145.5)	133.1 (125.4 to 141.4)	133.4 (127.2 to 140.0)	128.1 (121.4 to 135.0)
Ireland	55-59 years	141.5 (134.0 to 149.6)	136.9 (128.4 to 145.3)	136.5 (130.3 to 143.1)	131.5 (125.0 to 139.1)
Ireland	60-64 years	150.8 (143.2 to 158.7)	140.4 (131.4 to 148.8)	140.9 (134.4 to 147.8)	134.5 (127.5 to 142.3)
Ireland	65-69 years	150.0 (142.1 to 158.0)	153.6 (143.8 to 163.4)	138.4 (131.3 to 145.4)	141.2 (133.3 to 149.0)
Ireland	70-74 years	150.7 (143.2 to 159.3)	154.5 (144.8 to 165.2)	139.9 (132.7 to 147.8)	145.4 (136.5 to 155.1)
Ireland	75-79 years	153.0 (145.3 to 160.6)	156.1 (146.0 to 167.2)	141.7 (134.1 to 149.2)	146.8 (137.2 to 156.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Ireland	80+ years	152.9 (144.4 to 161.3)	157.4 (147.0 to 167.6)	141.9 (134.9 to 149.6)	148.7 (139.6 to 158.2)
Ireland	Age-standardized	138.3 (136.3 to 140.5)	132.8 (130.1 to 135.2)	134.8 (132.7 to 137.0)	128.7 (126.2 to 131.0)
Israel	25-29 years	123.2 (117.4 to 128.8)	119.2 (112.9 to 125.6)	121.1 (115.6 to 127.1)	115.4 (108.8 to 122.5)
Israel	30-34 years	128.7 (122.7 to 135.1)	121.7 (115.0 to 128.3)	126.8 (120.6 to 132.8)	118.0 (111.6 to 125.0)
Israel	35-39 years	128.5 (122.7 to 133.5)	121.1 (115.5 to 126.7)	127.5 (121.1 to 133.8)	119.5 (112.8 to 126.4)
Israel	40-44 years	128.7 (123.8 to 133.7)	124.2 (118.1 to 130.2)	128.1 (121.9 to 134.8)	122.8 (115.5 to 130.6)
Israel	45-49 years	131.7 (126.6 to 137.2)	127.1 (121.0 to 133.3)	130.8 (124.6 to 137.5)	126.3 (119.5 to 134.6)
Israel	50-54 years	132.0 (127.3 to 136.6)	129.7 (124.0 to 135.1)	133.3 (126.7 to 140.0)	130.1 (122.8 to 138.4)
Israel	55-59 years	136.4 (131.8 to 141.3)	134.6 (128.4 to 140.3)	135.8 (129.2 to 143.0)	133.0 (125.7 to 140.5)
Israel	60-64 years	138.7 (133.6 to 143.8)	137.7 (132.0 to 143.2)	138.3 (131.5 to 145.4)	136.7 (129.0 to 144.7)
Israel	65-69 years	142.6 (137.1 to 148.3)	144.6 (137.8 to 151.4)	139.8 (132.6 to 146.6)	139.6 (131.6 to 148.5)
Israel	70-74 years	142.7 (138.2 to 147.3)	144.8 (139.4 to 150.9)	140.1 (133.4 to 147.4)	140.9 (133.1 to 149.2)
Israel	75-79 years	148.4 (140.9 to 156.2)	150.4 (142.0 to 158.6)	143.3 (136.1 to 151.7)	143.8 (135.1 to 152.5)
Israel	80+ years	147.1 (141.6 to 153.0)	151.3 (145.0 to 157.6)	144.8 (138.2 to 151.6)	147.1 (139.6 to 155.8)
Israel	Age-standardized	132.6 (131.0 to 134.4)	129.4 (127.5 to 131.4)	131.4 (129.3 to 133.4)	127.1 (124.8 to 129.6)
Italy	25-29 years	120.0 (117.4 to 122.8)	113.8 (111.2 to 116.5)	119.5 (114.8 to 123.9)	114.5 (109.8 to 119.4)
Italy	30-34 years	126.1 (123.3 to 129.1)	117.4 (114.6 to 120.0)	125.9 (121.7 to 130.7)	118.1 (113.3 to 123.1)
Italy	35-39 years	130.3 (128.0 to 132.5)	122.0 (119.8 to 124.3)	127.0 (122.8 to 131.3)	118.7 (114.0 to 123.4)
Italy	40-44 years	131.2 (129.1 to 133.4)	126.1 (124.0 to 128.1)	127.1 (122.8 to 132.0)	121.6 (116.8 to 125.9)
Italy	45-49 years	134.2 (131.9 to 136.4)	131.4 (129.3 to 133.6)	129.9 (125.6 to 134.4)	125.1 (120.2 to 129.8)
Italy	50-54 years	137.0 (134.7 to 139.3)	135.1 (132.9 to 137.5)	131.1 (126.8 to 135.6)	127.1 (122.5 to 131.8)
Italy	55-59 years	140.6 (138.1 to 142.9)	140.2 (137.9 to 142.7)	134.3 (129.8 to 139.2)	130.7 (125.6 to 135.6)
Italy	60-64 years	144.3 (141.7 to 147.0)	143.8 (141.2 to 146.5)	135.4 (130.9 to 140.2)	133.3 (128.2 to 138.5)
Italy	65-69 years	151.7 (148.1 to 155.8)	149.4 (144.1 to 155.4)	139.0 (134.5 to 143.9)	137.8 (132.5 to 143.6)
Italy	70-74 years	151.7 (148.0 to 155.7)	150.3 (144.7 to 155.9)	138.7 (134.0 to 143.7)	138.2 (133.0 to 143.7)
Italy	75-79 years	154.8 (150.4 to 158.8)	151.4 (146.0 to 157.0)	139.5 (134.6 to 144.3)	138.8 (133.3 to 143.8)
Italy	80+ years	159.1 (154.3 to 164.0)	153.4 (146.1 to 161.1)	138.7 (133.4 to 144.1)	139.5 (133.5 to 145.2)
Italy	Age-standardized	135.5 (134.6 to 136.3)	131.0 (130.1 to 131.9)	129.8 (128.3 to 131.3)	125.3 (123.9 to 126.7)
Luxembourg	25-29 years	121.6 (115.2 to 128.3)	115.1 (108.0 to 122.4)	122.1 (117.3 to 127.0)	114.4 (109.2 to 119.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Luxembourg	30-34 years	127.2 (121.1 to 133.9)	116.9 (109.2 to 124.5)	127.4 (122.8 to 132.6)	116.0 (110.7 to 121.6)
Luxembourg	35-39 years	127.9 (121.5 to 134.5)	118.5 (111.4 to 126.8)	128.2 (123.2 to 132.9)	117.5 (112.4 to 123.3)
Luxembourg	40-44 years	131.8 (125.6 to 138.6)	123.0 (115.1 to 131.3)	132.5 (127.2 to 137.8)	122.0 (116.1 to 128.1)
Luxembourg	45-49 years	134.8 (127.7 to 141.8)	126.6 (119.2 to 133.9)	135.3 (130.0 to 140.4)	125.7 (119.7 to 131.6)
Luxembourg	50-54 years	137.7 (130.8 to 144.9)	131.4 (123.7 to 140.1)	138.1 (132.5 to 143.9)	130.2 (124.3 to 136.5)
Luxembourg	55-59 years	141.2 (133.3 to 149.0)	135.0 (126.9 to 143.6)	141.0 (135.5 to 146.7)	133.5 (127.6 to 139.7)
Luxembourg	60-64 years	147.5 (140.2 to 155.3)	141.5 (132.8 to 151.0)	147.8 (142.1 to 154.1)	140.5 (133.7 to 148.0)
Luxembourg	65-69 years	150.2 (142.4 to 158.0)	145.2 (136.0 to 154.8)	150.3 (144.3 to 156.5)	144.0 (136.7 to 150.4)
Luxembourg	70-74 years	150.2 (142.9 to 158.0)	146.5 (137.3 to 155.7)	149.5 (141.0 to 158.2)	144.3 (134.5 to 153.7)
Luxembourg	75-79 years	152.4 (144.3 to 160.6)	148.1 (138.4 to 157.6)	150.9 (143.3 to 158.9)	146.0 (137.2 to 156.4)
Luxembourg	80+ years	152.0 (144.1 to 160.4)	149.5 (139.9 to 159.3)	151.2 (143.8 to 159.3)	148.0 (138.2 to 157.8)
Luxembourg	Age-standardized	135.5 (133.4 to 137.6)	128.2 (125.8 to 130.7)	135.7 (134.1 to 137.3)	127.1 (125.1 to 129.0)
Malta	25-29 years	127.0 (122.3 to 131.8)	121.4 (115.8 to 127.2)	124.4 (117.8 to 131.6)	117.6 (110.0 to 125.1)
Malta	30-34 years	133.1 (127.9 to 137.9)	124.3 (118.6 to 130.1)	130.5 (123.4 to 137.6)	120.7 (113.4 to 129.1)
Malta	35-39 years	133.0 (128.4 to 138.1)	128.9 (123.3 to 134.7)	131.4 (124.9 to 138.4)	124.8 (117.0 to 133.0)
Malta	40-44 years	133.2 (128.7 to 138.4)	133.3 (127.7 to 139.3)	131.5 (124.8 to 138.8)	129.4 (121.5 to 137.5)
Malta	45-49 years	137.0 (132.2 to 142.3)	138.5 (132.6 to 144.6)	135.0 (127.4 to 142.8)	134.6 (126.3 to 143.6)
Malta	50-54 years	139.8 (134.8 to 144.9)	142.7 (136.2 to 148.5)	137.4 (130.0 to 144.6)	139.7 (131.0 to 149.0)
Malta	55-59 years	143.5 (138.5 to 148.7)	147.9 (141.5 to 154.8)	141.6 (134.6 to 149.2)	144.7 (135.5 to 154.9)
Malta	60-64 years	147.8 (142.1 to 153.6)	152.7 (146.1 to 159.4)	147.6 (139.9 to 155.9)	150.7 (141.3 to 160.9)
Malta	65-69 years	149.9 (142.1 to 158.7)	155.1 (145.0 to 165.5)	149.4 (141.9 to 157.1)	153.4 (143.6 to 163.8)
Malta	70-74 years	150.0 (142.3 to 157.9)	156.4 (147.0 to 166.4)	149.8 (142.0 to 157.7)	154.3 (144.4 to 164.6)
Malta	75-79 years	152.4 (144.8 to 160.6)	158.6 (148.7 to 169.3)	151.7 (143.9 to 160.1)	156.4 (146.5 to 166.9)
Malta	80+ years	152.3 (144.1 to 160.7)	160.1 (150.1 to 171.2)	151.7 (143.8 to 160.1)	158.3 (148.0 to 168.5)
Malta	Age-standardized	138.3 (136.6 to 139.8)	138.2 (136.2 to 140.1)	136.5 (134.3 to 138.6)	134.9 (132.5 to 137.4)
Netherlands	25-29 years	120.4 (115.7 to 125.5)	112.7 (107.5 to 118.2)	122.9 (117.0 to 129.4)	111.9 (105.1 to 119.2)
Netherlands	30-34 years	126.4 (121.6 to 131.5)	116.8 (112.0 to 121.7)	127.1 (120.5 to 133.4)	113.4 (106.8 to 120.4)
Netherlands	35-39 years	128.0 (123.6 to 132.7)	116.2 (111.4 to 121.7)	127.8 (121.6 to 134.7)	115.3 (108.1 to 122.8)
Netherlands	40-44 years	125.6 (120.7 to 130.4)	120.0 (114.6 to 125.6)	128.3 (121.7 to 134.8)	119.9 (112.5 to 127.6)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Netherlands	45-49 years	126.9 (122.1 to 131.9)	122.9 (117.8 to 128.3)	131.0 (124.4 to 138.0)	123.4 (116.6 to 130.7)
Netherlands	50-54 years	130.3 (125.3 to 136.0)	126.9 (121.4 to 132.3)	135.3 (128.1 to 142.3)	128.4 (120.5 to 136.7)
Netherlands	55-59 years	134.0 (129.7 to 138.4)	132.2 (127.9 to 136.6)	138.0 (131.0 to 145.9)	132.1 (124.3 to 140.5)
Netherlands	60-64 years	137.2 (132.4 to 142.1)	136.6 (132.0 to 141.6)	141.6 (134.4 to 149.1)	139.0 (131.0 to 147.9)
Netherlands	65-69 years	141.8 (137.3 to 146.3)	140.8 (135.7 to 145.7)	144.7 (137.8 to 151.9)	143.0 (134.6 to 152.1)
Netherlands	70-74 years	142.3 (137.6 to 146.9)	142.0 (137.0 to 146.8)	148.2 (141.0 to 155.7)	146.8 (137.6 to 155.9)
Netherlands	75-79 years	146.3 (141.6 to 150.6)	145.4 (140.4 to 150.7)	151.7 (144.5 to 159.7)	149.1 (139.7 to 158.8)
Netherlands	80+ years	145.5 (141.2 to 150.3)	146.1 (141.4 to 151.0)	151.6 (143.9 to 159.8)	150.1 (141.1 to 159.6)
Netherlands	Age-standardized	130.5 (129.0 to 132.0)	125.3 (123.7 to 126.8)	133.5 (131.5 to 135.6)	125.6 (123.3 to 127.9)
Norway	25-29 years	128.8 (126.0 to 131.6)	120.1 (116.2 to 124.2)	131.1 (124.1 to 138.2)	118.9 (111.7 to 126.7)
Norway	30-34 years	132.7 (129.6 to 135.7)	123.1 (118.7 to 127.7)	131.3 (124.6 to 137.8)	118.0 (111.2 to 125.8)
Norway	35-39 years	133.2 (130.3 to 136.5)	123.6 (119.5 to 127.8)	131.4 (125.6 to 137.6)	120.0 (113.4 to 126.6)
Norway	40-44 years	132.1 (129.3 to 134.9)	124.5 (120.5 to 128.3)	131.4 (125.7 to 137.7)	122.1 (115.5 to 128.8)
Norway	45-49 years	136.6 (133.3 to 140.0)	130.2 (126.3 to 134.5)	133.8 (128.0 to 139.6)	125.4 (119.0 to 132.0)
Norway	50-54 years	139.8 (136.7 to 142.9)	135.2 (130.8 to 139.9)	137.0 (130.9 to 143.2)	129.4 (122.1 to 136.8)
Norway	55-59 years	142.5 (139.2 to 145.7)	138.5 (133.7 to 142.9)	139.9 (133.6 to 146.5)	132.8 (125.3 to 140.1)
Norway	60-64 years	145.7 (142.3 to 149.2)	143.8 (139.4 to 148.4)	141.9 (135.4 to 149.5)	136.0 (128.4 to 143.9)
Norway	65-69 years	148.7 (145.3 to 152.2)	147.6 (142.8 to 152.8)	145.1 (138.6 to 151.9)	139.4 (132.8 to 147.3)
Norway	70-74 years	149.7 (146.4 to 153.2)	150.4 (145.5 to 155.4)	145.4 (138.3 to 152.4)	141.0 (133.2 to 149.5)
Norway	75-79 years	151.5 (148.0 to 155.1)	152.0 (146.9 to 157.1)	146.8 (140.1 to 154.0)	142.7 (135.1 to 150.7)
Norway	80+ years	148.8 (144.8 to 152.8)	149.5 (144.7 to 154.3)	144.1 (137.6 to 150.7)	140.4 (132.9 to 148.1)
Norway	Age-standardized	137.9 (136.9 to 138.9)	132.1 (130.8 to 133.4)	135.9 (133.9 to 138.0)	127.0 (124.9 to 129.1)
Portugal	25-29 years	118.6 (113.4 to 123.9)	113.8 (108.3 to 119.9)	120.7 (116.8 to 125.0)	110.3 (107.0 to 113.9)
Portugal	30-34 years	126.3 (121.1 to 132.0)	118.4 (112.5 to 124.9)	126.4 (122.2 to 130.8)	112.8 (109.4 to 116.4)
Portugal	35-39 years	132.5 (128.8 to 136.4)	123.1 (116.7 to 129.2)	129.1 (124.7 to 133.6)	117.0 (113.5 to 121.0)
Portugal	40-44 years	131.3 (125.9 to 137.3)	129.5 (123.8 to 135.5)	129.5 (125.2 to 134.1)	120.0 (116.1 to 123.8)
Portugal	45-49 years	134.7 (129.0 to 140.4)	135.2 (128.9 to 141.5)	132.2 (127.3 to 137.0)	123.5 (119.8 to 127.3)
Portugal	50-54 years	138.5 (132.6 to 144.7)	140.6 (134.0 to 147.5)	134.7 (130.4 to 139.1)	126.8 (122.5 to 131.1)
Portugal	55-59 years	143.5 (137.6 to 149.6)	146.5 (139.5 to 153.8)	137.1 (132.5 to 141.8)	129.8 (126.0 to 133.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Portugal	60-64 years	143.3 (137.1 to 149.5)	147.5 (140.8 to 153.8)	139.0 (134.2 to 143.7)	132.7 (128.7 to 136.9)
Portugal	65-69 years	141.4 (134.3 to 148.3)	144.4 (136.2 to 152.7)	138.3 (133.5 to 143.3)	135.0 (130.7 to 139.3)
Portugal	70-74 years	141.5 (134.4 to 149.2)	143.1 (134.2 to 151.4)	138.0 (133.4 to 143.3)	135.6 (130.7 to 140.3)
Portugal	75-79 years	140.6 (133.1 to 148.4)	140.7 (132.8 to 149.2)	139.0 (134.2 to 144.2)	136.5 (132.2 to 141.0)
Portugal	80+ years	139.3 (132.2 to 146.3)	140.1 (131.8 to 149.4)	138.6 (134.0 to 143.3)	137.0 (132.8 to 141.9)
Portugal	Age-standardized	133.7 (132.0 to 135.3)	131.8 (129.7 to 133.8)	131.5 (130.2 to 132.9)	122.9 (121.7 to 124.1)
Spain	25-29 years	116.4 (113.4 to 119.6)	108.9 (106.1 to 111.9)	124.8 (119.5 to 130.2)	113.7 (108.4 to 119.2)
Spain	30-34 years	122.0 (118.7 to 125.1)	111.9 (109.0 to 114.8)	127.1 (122.0 to 132.0)	114.1 (109.0 to 119.4)
Spain	35-39 years	120.9 (118.0 to 123.7)	113.4 (110.7 to 116.0)	127.6 (122.5 to 133.0)	115.4 (110.3 to 120.8)
Spain	40-44 years	121.3 (118.4 to 123.9)	116.4 (113.8 to 119.1)	127.6 (122.4 to 132.7)	118.3 (112.8 to 123.7)
Spain	45-49 years	124.1 (121.1 to 127.1)	121.1 (118.1 to 124.3)	130.2 (125.2 to 134.9)	121.8 (116.0 to 127.5)
Spain	50-54 years	127.0 (124.0 to 130.0)	125.4 (122.6 to 128.3)	133.0 (128.2 to 138.2)	125.0 (119.8 to 130.4)
Spain	55-59 years	130.3 (127.3 to 133.3)	129.9 (126.8 to 133.0)	135.5 (130.4 to 141.0)	128.0 (122.5 to 134.3)
Spain	60-64 years	132.6 (129.4 to 135.8)	132.8 (129.6 to 135.9)	137.9 (132.9 to 142.8)	131.3 (125.1 to 137.8)
Spain	65-69 years	141.7 (136.0 to 147.4)	142.4 (136.0 to 148.5)	140.2 (134.6 to 145.8)	134.5 (128.5 to 140.8)
Spain	70-74 years	145.0 (139.4 to 151.3)	144.7 (138.4 to 151.0)	139.9 (134.3 to 145.4)	135.3 (129.1 to 141.0)
Spain	75-79 years	143.5 (136.8 to 150.7)	146.7 (138.9 to 154.0)	141.3 (136.0 to 146.7)	136.5 (130.7 to 142.5)
Spain	80+ years	142.6 (135.8 to 149.5)	148.3 (141.4 to 155.8)	140.6 (134.7 to 146.2)	136.9 (130.7 to 143.1)
Spain	Age-standardized	126.8 (125.7 to 127.9)	123.0 (121.9 to 124.1)	131.5 (130.0 to 133.0)	122.5 (120.9 to 124.1)
Sweden	25-29 years	120.8 (116.4 to 125.4)	113.4 (108.3 to 118.7)	121.3 (116.5 to 125.8)	114.8 (109.4 to 120.6)
Sweden	30-34 years	126.2 (121.5 to 130.9)	115.7 (110.7 to 121.1)	126.2 (121.2 to 131.5)	116.7 (111.7 to 122.1)
Sweden	35-39 years	127.2 (122.6 to 131.9)	118.8 (113.4 to 124.1)	126.9 (122.5 to 131.8)	118.2 (112.7 to 123.9)
Sweden	40-44 years	126.3 (121.7 to 131.0)	122.9 (117.6 to 128.2)	126.9 (121.9 to 131.9)	121.4 (115.8 to 127.0)
Sweden	45-49 years	130.8 (125.9 to 135.7)	127.8 (122.4 to 133.4)	130.5 (125.4 to 135.5)	125.2 (119.0 to 131.2)
Sweden	50-54 years	132.6 (127.7 to 137.6)	131.4 (125.7 to 137.9)	133.2 (127.7 to 138.8)	128.5 (122.3 to 134.8)
Sweden	55-59 years	137.8 (132.2 to 143.4)	136.3 (130.1 to 142.4)	135.8 (130.4 to 141.4)	131.7 (125.3 to 138.2)
Sweden	60-64 years	140.0 (134.3 to 145.3)	139.6 (133.1 to 145.8)	138.0 (132.7 to 143.7)	135.3 (128.5 to 142.2)
Sweden	65-69 years	144.8 (138.5 to 151.4)	143.2 (135.4 to 151.3)	139.7 (133.9 to 146.0)	137.3 (130.3 to 144.7)
Sweden	70-74 years	148.0 (141.9 to 154.1)	146.7 (138.7 to 154.6)	139.3 (133.1 to 145.7)	137.9 (130.5 to 144.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Sweden	75-79 years	145.8 (139.5 to 151.9)	143.4 (135.3 to 151.5)	142.0 (135.9 to 148.7)	140.3 (132.7 to 148.5)
Sweden	80+ years	144.5 (138.1 to 151.4)	147.1 (139.1 to 155.3)	143.9 (137.3 to 150.7)	145.4 (137.9 to 153.6)
Sweden	Age-standardized	132.0 (130.5 to 133.5)	127.6 (125.9 to 129.5)	130.9 (129.3 to 132.6)	125.6 (123.7 to 127.5)
Switzerland	25-29 years	123.7 (119.9 to 127.2)	113.3 (109.3 to 117.4)	126.2 (120.5 to 133.0)	109.6 (102.8 to 116.5)
Switzerland	30-34 years	129.5 (125.9 to 133.2)	116.0 (111.8 to 120.4)	124.7 (120.1 to 129.1)	107.0 (102.5 to 111.9)
Switzerland	35-39 years	127.4 (125.4 to 129.6)	117.3 (114.9 to 119.7)	124.6 (120.3 to 129.2)	109.8 (104.9 to 114.5)
Switzerland	40-44 years	127.7 (125.8 to 129.9)	120.4 (118.0 to 122.9)	124.9 (120.6 to 129.3)	112.6 (107.5 to 117.9)
Switzerland	45-49 years	130.5 (128.5 to 132.7)	124.9 (122.4 to 127.7)	127.3 (122.8 to 131.7)	115.7 (110.3 to 121.1)
Switzerland	50-54 years	133.0 (130.7 to 135.2)	128.2 (125.3 to 131.0)	129.8 (125.1 to 134.3)	118.8 (113.2 to 123.9)
Switzerland	55-59 years	136.1 (133.8 to 138.3)	131.7 (128.7 to 134.7)	132.1 (127.4 to 136.7)	121.7 (116.2 to 127.7)
Switzerland	60-64 years	138.1 (135.8 to 140.5)	134.6 (131.8 to 137.3)	133.9 (129.2 to 138.6)	124.3 (118.5 to 129.7)
Switzerland	65-69 years	136.5 (130.9 to 142.4)	135.5 (128.1 to 143.2)	136.2 (131.6 to 141.1)	127.3 (121.5 to 133.4)
Switzerland	70-74 years	135.3 (129.3 to 141.4)	135.7 (128.0 to 144.0)	135.6 (129.3 to 142.2)	134.4 (127.1 to 141.2)
Switzerland	75-79 years	136.2 (129.8 to 142.1)	136.9 (129.3 to 144.6)	136.7 (130.4 to 143.1)	136.6 (128.9 to 144.6)
Switzerland	80+ years	140.3 (133.2 to 147.8)	137.7 (129.4 to 146.3)	140.4 (133.7 to 147.7)	137.2 (129.0 to 145.7)
Switzerland	Age-standardized	131.1 (130.2 to 132.2)	124.4 (123.1 to 125.6)	129.0 (127.5 to 130.7)	117.2 (115.5 to 118.9)
United Kingdom	25-29 years	125.1 (119.6 to 130.6)	115.4 (109.8 to 121.5)	122.4 (117.1 to 128.3)	113.0 (106.8 to 119.2)
United Kingdom	30-34 years	132.6 (129.6 to 135.7)	122.4 (119.4 to 126.0)	126.5 (123.4 to 129.7)	113.5 (110.1 to 116.8)
United Kingdom	35-39 years	133.1 (130.0 to 136.2)	124.4 (120.7 to 128.2)	126.9 (123.8 to 130.1)	115.0 (111.5 to 118.8)
United Kingdom	40-44 years	130.1 (127.5 to 132.8)	124.1 (121.2 to 127.1)	128.4 (125.2 to 131.6)	117.9 (114.6 to 121.3)
United Kingdom	45-49 years	135.9 (132.8 to 139.2)	131.8 (128.2 to 135.6)	130.0 (127.0 to 133.4)	121.6 (118.1 to 125.2)
United Kingdom	50-54 years	139.3 (135.9 to 142.7)	136.9 (133.1 to 141.1)	132.2 (128.8 to 135.3)	125.7 (122.2 to 129.4)
United Kingdom	55-59 years	143.3 (140.0 to 147.0)	142.2 (138.2 to 146.2)	134.5 (131.4 to 137.7)	129.2 (125.7 to 133.2)
United Kingdom	60-64 years	148.0 (144.4 to 151.6)	146.7 (142.1 to 151.2)	135.9 (132.7 to 139.1)	132.3 (128.8 to 135.9)
United Kingdom	65-69 years	151.7 (147.9 to 155.6)	152.8 (148.2 to 157.2)	136.9 (133.3 to 140.5)	135.7 (131.7 to 140.0)
United Kingdom	70-74 years	152.1 (148.5 to 155.8)	156.4 (151.9 to 160.9)	136.3 (133.0 to 139.6)	137.7 (133.7 to 141.6)
United Kingdom	75-79 years	155.1 (151.2 to 159.1)	160.0 (155.3 to 164.9)	137.5 (134.1 to 140.9)	139.0 (134.8 to 143.4)
United Kingdom	80+ years	154.7 (150.7 to 158.7)	160.6 (155.9 to 165.5)	138.0 (134.4 to 141.5)	140.3 (136.1 to 144.6)
United Kingdom	Age-standardized	137.9 (136.7 to 139.0)	133.5 (132.2 to 134.7)	130.2 (129.1 to 131.4)	122.8 (121.5 to 124.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Argentina	25-29 years	114.1 (109.8 to 118.8)	105.5 (99.8 to 111.4)	119.9 (115.3 to 124.7)	114.9 (108.9 to 121.4)
Argentina	30-34 years	119.5 (114.7 to 124.1)	108.2 (102.3 to 114.4)	125.2 (120.3 to 130.3)	117.4 (111.2 to 124.2)
Argentina	35-39 years	120.9 (116.1 to 125.9)	110.3 (104.1 to 116.2)	126.1 (121.1 to 131.5)	119.3 (112.9 to 126.6)
Argentina	40-44 years	122.6 (118.0 to 127.6)	114.2 (107.8 to 121.2)	126.5 (121.6 to 131.9)	122.1 (115.5 to 129.1)
Argentina	45-49 years	125.2 (120.3 to 130.7)	118.1 (111.5 to 125.2)	129.1 (124.0 to 134.3)	125.7 (118.7 to 132.9)
Argentina	50-54 years	128.5 (123.3 to 133.8)	123.7 (116.9 to 130.4)	131.4 (126.5 to 136.7)	129.1 (122.0 to 136.7)
Argentina	55-59 years	131.3 (126.0 to 136.3)	127.0 (119.9 to 134.2)	134.1 (128.9 to 139.9)	132.2 (124.7 to 139.8)
Argentina	60-64 years	134.9 (129.5 to 140.5)	133.7 (125.5 to 141.6)	137.0 (131.5 to 142.7)	135.3 (128.0 to 143.2)
Argentina	65-69 years	140.7 (134.6 to 146.8)	140.9 (133.0 to 149.6)	142.0 (135.6 to 148.0)	141.4 (133.2 to 149.6)
Argentina	70-74 years	142.7 (136.2 to 148.7)	145.7 (136.8 to 155.0)	143.1 (137.4 to 149.0)	144.7 (136.0 to 153.0)
Argentina	75-79 years	145.6 (138.9 to 152.5)	146.7 (137.8 to 156.1)	145.3 (139.1 to 151.4)	145.3 (136.8 to 154.4)
Argentina	80+ years	150.8 (144.7 to 157.7)	147.3 (138.2 to 157.3)	150.7 (144.1 to 157.6)	146.2 (137.5 to 155.8)
Argentina	Age-standardized	127.1 (125.4 to 128.6)	120.8 (118.7 to 123.0)	130.7 (129.1 to 132.3)	126.8 (124.7 to 129.0)
Chile	25-29 years	114.2 (109.3 to 119.1)	108.3 (102.1 to 114.8)	115.3 (110.6 to 119.5)	109.8 (103.8 to 116.2)
Chile	30-34 years	121.9 (116.6 to 127.0)	112.5 (105.9 to 119.6)	120.6 (115.7 to 125.8)	112.6 (106.5 to 119.0)
Chile	35-39 years	124.8 (120.5 to 129.4)	117.8 (111.7 to 123.1)	121.4 (116.7 to 126.4)	113.9 (107.7 to 121.1)
Chile	40-44 years	125.4 (120.9 to 130.2)	121.2 (115.7 to 126.8)	122.0 (116.9 to 127.0)	116.9 (110.6 to 123.4)
Chile	45-49 years	128.0 (123.4 to 132.6)	124.8 (119.1 to 130.5)	124.4 (119.5 to 129.8)	120.5 (113.4 to 126.9)
Chile	50-54 years	130.6 (125.6 to 135.7)	128.3 (122.6 to 134.6)	127.0 (121.7 to 132.2)	123.7 (116.7 to 130.7)
Chile	55-59 years	133.2 (128.4 to 138.1)	131.4 (125.5 to 137.7)	130.5 (125.5 to 135.8)	127.0 (120.0 to 134.0)
Chile	60-64 years	137.0 (132.3 to 141.9)	135.8 (129.8 to 141.7)	135.4 (130.1 to 141.1)	131.4 (124.6 to 139.2)
Chile	65-69 years	140.8 (135.4 to 146.5)	140.4 (133.0 to 148.6)	142.0 (135.7 to 148.4)	139.3 (131.3 to 147.9)
Chile	70-74 years	142.4 (136.8 to 147.9)	146.4 (138.6 to 154.4)	143.2 (137.3 to 149.3)	145.0 (136.1 to 154.2)
Chile	75-79 years	145.5 (140.0 to 151.6)	146.5 (138.7 to 154.7)	146.4 (140.3 to 152.8)	145.4 (136.5 to 154.4)
Chile	80+ years	155.6 (149.3 to 162.3)	146.8 (138.9 to 155.0)	155.6 (148.6 to 162.9)	145.4 (136.4 to 154.1)
Chile	Age-standardized	129.1 (127.5 to 130.6)	124.9 (123.0 to 126.8)	127.4 (125.7 to 129.1)	122.5 (120.2 to 124.7)
Uruguay	25-29 years	115.7 (110.9 to 120.8)	107.9 (101.6 to 114.8)	118.5 (113.3 to 123.8)	112.3 (105.6 to 119.2)
Uruguay	30-34 years	121.3 (116.0 to 126.7)	110.9 (104.3 to 117.7)	124.0 (118.7 to 129.8)	114.8 (107.9 to 122.5)
Uruguay	35-39 years	123.8 (118.5 to 129.3)	114.8 (107.9 to 122.5)	124.6 (119.2 to 130.1)	116.8 (109.8 to 124.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Uruguay	40-44 years	124.9 (119.3 to 130.5)	118.8 (111.5 to 126.8)	125.3 (120.0 to 130.8)	120.1 (113.1 to 127.5)
Uruguay	45-49 years	127.8 (122.6 to 133.4)	122.8 (115.6 to 130.8)	127.8 (122.3 to 133.0)	123.7 (116.3 to 131.6)
Uruguay	50-54 years	130.7 (125.5 to 136.5)	127.2 (119.7 to 134.9)	130.7 (125.2 to 136.5)	127.5 (119.4 to 135.1)
Uruguay	55-59 years	133.8 (128.3 to 139.3)	131.1 (123.2 to 139.2)	133.6 (128.0 to 139.4)	131.1 (123.2 to 139.8)
Uruguay	60-64 years	137.4 (131.4 to 143.5)	136.1 (127.7 to 144.3)	136.7 (131.3 to 142.5)	134.6 (126.1 to 142.5)
Uruguay	65-69 years	140.5 (134.2 to 146.6)	140.8 (132.6 to 149.9)	140.2 (134.3 to 146.4)	139.4 (131.1 to 147.9)
Uruguay	70-74 years	141.9 (136.0 to 147.8)	145.7 (136.5 to 154.8)	141.1 (135.4 to 147.2)	142.7 (133.4 to 152.0)
Uruguay	75-79 years	145.4 (139.0 to 151.8)	146.7 (137.1 to 155.9)	143.3 (136.9 to 149.7)	144.0 (135.1 to 153.0)
Uruguay	80+ years	153.5 (146.6 to 160.5)	147.2 (137.9 to 156.7)	151.3 (144.8 to 157.7)	144.7 (135.2 to 153.6)
Uruguay	Age-standardized	129.0 (127.4 to 130.6)	123.8 (121.5 to 126.2)	129.5 (127.8 to 131.3)	124.8 (122.4 to 127.3)
Canada	25-29 years	117.7 (116.2 to 119.1)	109.6 (108.2 to 111.0)	114.7 (113.1 to 116.2)	108.8 (107.1 to 110.4)
Canada	30-34 years	123.1 (121.7 to 124.5)	111.6 (110.0 to 113.0)	120.7 (119.1 to 122.4)	111.0 (109.4 to 112.7)
Canada	35-39 years	122.9 (121.4 to 124.3)	113.2 (111.8 to 114.7)	121.3 (119.7 to 123.0)	113.2 (111.4 to 114.9)
Canada	40-44 years	124.2 (122.7 to 125.7)	117.7 (116.3 to 119.3)	121.9 (120.2 to 123.4)	116.5 (114.8 to 118.3)
Canada	45-49 years	126.5 (125.0 to 128.1)	120.9 (119.3 to 122.5)	124.1 (122.4 to 125.8)	119.9 (118.1 to 121.8)
Canada	50-54 years	129.7 (128.3 to 131.3)	125.0 (123.4 to 126.6)	126.7 (125.0 to 128.4)	123.4 (121.5 to 125.2)
Canada	55-59 years	134.0 (132.4 to 135.5)	130.9 (129.3 to 132.6)	129.9 (128.1 to 131.8)	127.4 (125.6 to 129.4)
Canada	60-64 years	137.0 (135.3 to 138.5)	133.5 (131.8 to 135.3)	132.0 (130.1 to 133.8)	130.4 (128.5 to 132.4)
Canada	65-69 years	140.3 (138.5 to 142.1)	139.2 (137.3 to 141.2)	132.0 (130.2 to 133.8)	132.3 (130.3 to 134.3)
Canada	70-74 years	141.2 (139.3 to 143.1)	143.2 (141.2 to 145.2)	132.1 (130.1 to 133.8)	133.8 (131.9 to 135.8)
Canada	75-79 years	143.1 (141.1 to 145.0)	144.9 (142.6 to 147.1)	134.0 (132.2 to 135.8)	135.8 (133.7 to 137.9)
Canada	80+ years	143.2 (141.2 to 145.2)	146.5 (144.1 to 148.7)	134.4 (132.6 to 136.3)	137.6 (135.6 to 139.6)
Canada	Age-standardized	128.5 (128.1 to 129.0)	122.9 (122.4 to 123.4)	124.7 (124.1 to 125.2)	120.4 (119.8 to 120.9)
United States	25-29 years	112.5 (112.2 to 112.8)	108.9 (108.5 to 109.2)	111.5 (111.2 to 111.9)	109.6 (109.3 to 110.0)
United States	30-34 years	119.6 (119.3 to 120.0)	110.1 (109.8 to 110.4)	118.9 (118.5 to 119.2)	110.8 (110.5 to 111.2)
United States	35-39 years	120.5 (120.2 to 120.8)	112.8 (112.4 to 113.1)	120.4 (120.1 to 120.7)	112.3 (112.0 to 112.7)
United States	40-44 years	121.9 (121.6 to 122.2)	116.4 (116.1 to 116.7)	121.4 (121.1 to 121.8)	115.3 (114.9 to 115.6)
United States	45-49 years	125.3 (124.9 to 125.6)	122.2 (121.8 to 122.5)	121.5 (121.2 to 121.8)	118.3 (118.0 to 118.6)
United States	50-54 years	128.2 (127.9 to 128.6)	126.7 (126.3 to 127.1)	124.8 (124.5 to 125.2)	121.4 (121.1 to 121.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
United States	55-59 years	130.3 (130.0 to 130.7)	130.5 (130.1 to 130.9)	127.0 (126.6 to 127.4)	124.7 (124.3 to 125.0)
United States	60-64 years	133.5 (133.1 to 133.9)	135.3 (134.9 to 135.7)	129.5 (129.1 to 129.9)	129.0 (128.7 to 129.4)
United States	65-69 years	137.4 (137.0 to 137.8)	138.6 (138.2 to 139.0)	129.2 (128.8 to 129.5)	131.1 (130.7 to 131.5)
United States	70-74 years	138.7 (138.3 to 139.1)	142.5 (142.1 to 143.0)	130.9 (130.6 to 131.3)	135.1 (134.8 to 135.5)
United States	75-79 years	140.4 (140.0 to 140.8)	146.1 (145.6 to 146.6)	132.8 (132.4 to 133.1)	137.6 (137.3 to 138.1)
United States	80+ years	142.8 (142.3 to 143.2)	149.9 (149.5 to 150.4)	135.3 (134.9 to 135.7)	142.4 (142.0 to 142.9)
United States	Age-standardized	125.7 (125.6 to 125.8)	122.9 (122.8 to 123.0)	122.8 (122.7 to 122.9)	119.8 (119.7 to 119.9)
Antigua and Barbuda	25-29 years	115.4 (111.1 to 119.4)	109.5 (106.0 to 112.8)	118.2 (114.2 to 122.4)	111.8 (108.4 to 115.4)
Antigua and Barbuda	30-34 years	121.1 (116.8 to 125.0)	112.1 (108.6 to 115.7)	123.9 (119.7 to 128.3)	114.3 (110.8 to 117.8)
Antigua and Barbuda	35-39 years	121.9 (117.8 to 126.3)	114.9 (111.3 to 118.5)	124.5 (120.2 to 128.6)	116.4 (112.9 to 120.0)
Antigua and Barbuda	40-44 years	123.7 (119.9 to 128.1)	119.5 (115.9 to 122.8)	125.5 (121.3 to 129.6)	119.4 (115.5 to 123.2)
Antigua and Barbuda	45-49 years	126.7 (122.2 to 131.1)	123.7 (119.9 to 127.9)	129.6 (124.9 to 134.0)	123.9 (120.0 to 127.9)
Antigua and Barbuda	50-54 years	129.7 (125.4 to 134.1)	127.6 (123.6 to 131.5)	132.3 (127.7 to 137.0)	127.3 (123.6 to 131.2)
Antigua and Barbuda	55-59 years	132.7 (128.4 to 137.4)	130.9 (126.9 to 135.2)	135.2 (130.6 to 139.9)	130.4 (126.5 to 134.7)
Antigua and Barbuda	60-64 years	134.8 (130.3 to 139.7)	134.2 (130.0 to 138.5)	137.7 (132.9 to 142.7)	134.2 (129.7 to 138.3)
Antigua and Barbuda	65-69 years	136.3 (131.5 to 140.8)	137.0 (132.9 to 141.5)	139.6 (135.1 to 144.4)	137.7 (133.7 to 142.0)
Antigua and Barbuda	70-74 years	136.8 (131.9 to 141.7)	137.7 (133.3 to 142.3)	139.9 (135.1 to 144.5)	138.7 (134.3 to 142.8)
Antigua and Barbuda	75-79 years	137.3 (133.0 to 142.0)	138.8 (134.2 to 143.2)	141.7 (136.7 to 146.7)	139.9 (135.7 to 144.3)
Antigua and Barbuda	80+ years	137.1 (132.5 to 141.7)	139.2 (134.6 to 143.7)	141.1 (136.1 to 146.3)	140.7 (136.3 to 144.9)
Antigua and Barbuda	Age-standardized	126.7 (125.4 to 128.0)	123.0 (121.9 to 124.2)	129.5 (128.2 to 130.9)	123.9 (122.8 to 125.1)
The Bahamas	25-29 years	115.4 (111.7 to 119.6)	110.0 (106.9 to 113.6)	118.4 (114.5 to 122.8)	112.0 (108.5 to 115.6)
The Bahamas	30-34 years	121.1 (117.3 to 125.2)	112.4 (108.8 to 115.9)	124.0 (120.0 to 128.2)	114.4 (111.0 to 117.9)
The Bahamas	35-39 years	122.1 (118.1 to 126.0)	115.2 (111.3 to 119.0)	124.6 (120.6 to 129.4)	116.5 (113.0 to 120.3)
The Bahamas	40-44 years	124.0 (120.0 to 128.2)	119.8 (116.1 to 123.7)	125.6 (121.2 to 129.9)	119.5 (115.9 to 123.5)
The Bahamas	45-49 years	126.7 (122.3 to 131.4)	124.1 (120.4 to 128.4)	129.6 (125.3 to 134.4)	124.1 (120.2 to 127.9)
The Bahamas	50-54 years	129.8 (125.6 to 134.3)	128.0 (124.0 to 132.2)	132.3 (127.8 to 137.3)	127.5 (123.2 to 131.5)
The Bahamas	55-59 years	132.8 (128.2 to 137.1)	131.2 (126.8 to 135.6)	135.3 (130.4 to 140.2)	130.7 (126.9 to 134.7)
The Bahamas	60-64 years	135.0 (130.4 to 139.7)	134.6 (130.3 to 138.7)	137.9 (133.5 to 143.0)	134.3 (130.1 to 138.5)
The Bahamas	65-69 years	136.5 (131.9 to 141.4)	137.2 (132.8 to 141.7)	139.6 (134.5 to 144.2)	137.9 (133.5 to 141.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
The Bahamas	70-74 years	136.8 (132.2 to 141.2)	138.0 (133.7 to 142.6)	140.1 (135.6 to 144.7)	138.8 (134.5 to 143.0)
The Bahamas	75-79 years	137.4 (132.8 to 142.0)	139.5 (135.1 to 143.9)	141.8 (137.0 to 146.4)	140.2 (135.8 to 144.7)
The Bahamas	80+ years	137.3 (132.8 to 142.4)	139.7 (135.0 to 144.1)	141.0 (136.3 to 145.9)	140.7 (136.2 to 145.0)
The Bahamas	Age-standardized	126.8 (125.5 to 128.2)	123.4 (122.3 to 124.5)	129.6 (128.2 to 131.0)	124.1 (122.9 to 125.2)
Barbados	25-29 years	116.0 (112.7 to 119.6)	111.3 (108.2 to 114.3)	118.9 (115.9 to 122.0)	113.8 (111.2 to 116.6)
Barbados	30-34 years	121.7 (118.1 to 125.4)	114.1 (111.1 to 117.3)	124.6 (121.6 to 127.7)	116.4 (113.8 to 119.1)
Barbados	35-39 years	123.4 (119.8 to 127.2)	117.0 (113.7 to 120.5)	125.4 (122.3 to 128.6)	118.2 (115.5 to 121.1)
Barbados	40-44 years	125.7 (122.3 to 129.1)	122.8 (119.9 to 125.9)	125.9 (122.9 to 129.0)	121.4 (118.5 to 124.3)
Barbados	45-49 years	128.2 (124.9 to 131.6)	126.3 (123.1 to 129.5)	128.8 (125.6 to 132.1)	124.1 (121.1 to 127.0)
Barbados	50-54 years	130.6 (126.9 to 134.2)	129.5 (126.1 to 132.9)	131.4 (127.8 to 134.6)	127.4 (124.3 to 130.4)
Barbados	55-59 years	133.0 (129.5 to 136.8)	132.6 (129.5 to 135.8)	133.7 (130.2 to 137.4)	130.6 (127.3 to 133.6)
Barbados	60-64 years	134.9 (131.0 to 138.8)	135.7 (132.1 to 139.1)	135.9 (132.4 to 139.5)	133.6 (130.6 to 136.7)
Barbados	65-69 years	136.7 (133.1 to 140.2)	138.3 (135.0 to 141.8)	143.2 (139.6 to 147.0)	141.0 (137.3 to 144.6)
Barbados	70-74 years	136.5 (133.0 to 140.4)	139.1 (135.6 to 142.9)	143.6 (139.8 to 147.4)	142.1 (138.3 to 145.6)
Barbados	75-79 years	137.7 (134.0 to 141.2)	140.1 (136.6 to 143.6)	144.8 (141.1 to 148.8)	143.3 (139.7 to 146.9)
Barbados	80+ years	137.7 (133.6 to 141.5)	140.5 (136.9 to 144.2)	144.2 (140.4 to 148.1)	143.7 (140.0 to 147.7)
Barbados	Age-standardized	127.6 (126.5 to 128.8)	125.1 (124.1 to 126.1)	130.0 (129.0 to 131.1)	125.5 (124.5 to 126.4)
Belize	25-29 years	111.9 (108.2 to 115.1)	110.6 (107.5 to 113.9)	113.5 (110.1 to 116.8)	110.7 (107.3 to 114.1)
Belize	30-34 years	117.2 (113.3 to 121.0)	113.2 (109.8 to 116.8)	119.0 (115.4 to 122.4)	113.2 (109.9 to 116.8)
Belize	35-39 years	118.5 (114.9 to 122.3)	115.5 (112.0 to 119.3)	119.9 (116.3 to 123.4)	115.4 (112.0 to 119.2)
Belize	40-44 years	122.8 (118.9 to 126.8)	118.9 (115.3 to 122.5)	124.4 (120.8 to 128.2)	118.3 (115.0 to 121.5)
Belize	45-49 years	125.9 (121.8 to 130.1)	122.4 (118.7 to 126.2)	127.3 (123.9 to 131.1)	122.0 (118.7 to 125.1)
Belize	50-54 years	128.1 (123.9 to 132.1)	125.7 (121.8 to 129.7)	129.7 (125.6 to 133.7)	125.1 (121.7 to 128.4)
Belize	55-59 years	130.7 (126.3 to 135.3)	128.8 (125.1 to 132.7)	132.2 (128.3 to 136.0)	128.0 (124.6 to 131.2)
Belize	60-64 years	133.0 (128.8 to 137.5)	131.9 (128.1 to 136.0)	134.3 (130.3 to 138.3)	131.1 (127.7 to 134.5)
Belize	65-69 years	137.5 (133.4 to 142.1)	137.0 (133.0 to 141.2)	139.4 (135.5 to 143.6)	136.5 (133.2 to 140.3)
Belize	70-74 years	137.8 (133.4 to 142.3)	138.0 (133.8 to 142.3)	139.3 (135.5 to 143.5)	137.4 (133.8 to 141.1)
Belize	75-79 years	138.7 (133.7 to 143.3)	139.0 (134.8 to 143.4)	140.7 (136.6 to 144.8)	138.7 (135.0 to 142.4)
Belize	80+ years	138.2 (133.8 to 142.6)	139.2 (134.8 to 143.4)	140.0 (136.1 to 143.8)	139.1 (135.2 to 142.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Belize	Age-standardized	125.0 (123.7 to 126.2)	122.7 (121.6 to 123.7)	126.5 (125.4 to 127.8)	122.4 (121.3 to 123.5)
Bermuda	25-29 years	113.1 (109.1 to 117.3)	107.5 (104.0 to 111.0)	114.1 (110.8 to 117.7)	107.8 (104.8 to 110.7)
Bermuda	30-34 years	118.4 (114.5 to 122.4)	109.9 (106.5 to 113.4)	119.7 (115.8 to 123.3)	110.4 (107.3 to 113.7)
Bermuda	35-39 years	119.4 (115.4 to 123.3)	111.8 (108.3 to 115.4)	120.5 (116.9 to 124.3)	112.1 (109.0 to 115.0)
Bermuda	40-44 years	120.6 (116.3 to 124.8)	115.1 (111.6 to 118.9)	121.3 (117.7 to 125.2)	115.0 (111.9 to 118.2)
Bermuda	45-49 years	128.4 (124.2 to 132.8)	120.2 (116.7 to 123.9)	129.4 (125.5 to 133.3)	120.1 (116.8 to 123.5)
Bermuda	50-54 years	131.6 (126.7 to 136.3)	123.6 (119.7 to 127.9)	132.3 (128.4 to 136.3)	123.5 (119.9 to 126.8)
Bermuda	55-59 years	134.6 (129.7 to 139.3)	127.2 (123.4 to 131.1)	135.1 (130.9 to 139.3)	126.8 (123.4 to 130.1)
Bermuda	60-64 years	137.6 (132.9 to 142.1)	133.4 (129.1 to 138.0)	138.3 (134.4 to 142.7)	133.2 (129.5 to 136.8)
Bermuda	65-69 years	139.5 (134.5 to 144.4)	136.5 (132.5 to 140.8)	140.4 (136.2 to 144.6)	136.5 (132.6 to 140.2)
Bermuda	70-74 years	139.6 (135.0 to 144.6)	137.3 (133.2 to 141.5)	140.4 (136.1 to 144.4)	137.2 (133.6 to 140.8)
Bermuda	75-79 years	140.5 (135.7 to 145.2)	138.4 (134.2 to 142.6)	141.8 (137.4 to 146.1)	138.4 (134.5 to 142.1)
Bermuda	80+ years	140.0 (135.2 to 144.8)	138.6 (134.1 to 143.0)	140.9 (136.6 to 145.4)	138.8 (135.1 to 142.8)
Bermuda	Age-standardized	126.7 (125.3 to 127.9)	120.5 (119.4 to 121.6)	127.6 (126.4 to 128.7)	120.6 (119.6 to 121.5)
Cuba	25-29 years	114.7 (110.9 to 118.8)	109.3 (105.8 to 112.8)	116.7 (113.0 to 120.6)	110.6 (107.4 to 113.9)
Cuba	30-34 years	120.4 (116.2 to 124.7)	111.7 (108.4 to 115.0)	122.4 (118.3 to 126.8)	113.3 (110.1 to 116.6)
Cuba	35-39 years	120.9 (117.0 to 124.9)	113.9 (110.4 to 117.5)	122.8 (119.0 to 126.7)	115.0 (111.7 to 118.6)
Cuba	40-44 years	122.1 (117.9 to 126.7)	117.7 (113.9 to 121.6)	123.6 (119.6 to 127.8)	117.9 (114.6 to 121.4)
Cuba	45-49 years	125.0 (120.9 to 129.5)	121.8 (118.0 to 125.7)	126.8 (122.7 to 131.0)	122.0 (118.5 to 125.6)
Cuba	50-54 years	128.8 (124.4 to 133.5)	126.4 (122.4 to 130.3)	129.6 (125.2 to 134.0)	125.3 (121.6 to 129.3)
Cuba	55-59 years	132.6 (128.3 to 136.6)	130.9 (126.8 to 135.1)	132.6 (128.4 to 136.9)	128.5 (124.9 to 132.4)
Cuba	60-64 years	135.4 (131.2 to 139.6)	134.9 (130.9 to 138.8)	135.3 (131.2 to 139.7)	132.8 (128.8 to 137.0)
Cuba	65-69 years	134.7 (130.6 to 138.7)	135.9 (132.2 to 139.8)	136.6 (132.2 to 141.1)	135.3 (131.4 to 139.2)
Cuba	70-74 years	132.8 (128.8 to 136.9)	134.9 (130.9 to 138.8)	136.0 (131.6 to 140.7)	135.7 (131.8 to 139.6)
Cuba	75-79 years	131.8 (128.0 to 136.0)	136.0 (131.9 to 140.0)	134.9 (130.4 to 139.2)	136.7 (132.3 to 141.0)
Cuba	80+ years	134.5 (130.6 to 138.7)	135.4 (131.6 to 139.0)	136.5 (132.1 to 141.3)	136.4 (132.2 to 140.5)
Cuba	Age-standardized	125.5 (124.1 to 126.8)	122.0 (120.9 to 123.2)	127.1 (125.8 to 128.3)	122.1 (121.0 to 123.2)
Dominica	25-29 years	121.6 (117.3 to 125.9)	114.0 (110.3 to 117.4)	122.3 (119.0 to 125.6)	113.7 (110.8 to 116.6)
Dominica	30-34 years	127.2 (122.9 to 131.6)	116.4 (113.0 to 120.1)	128.1 (124.5 to 131.5)	116.2 (113.4 to 119.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Dominica	35-39 years	128.0 (123.7 to 132.6)	118.4 (114.7 to 121.8)	128.9 (125.4 to 132.5)	117.9 (114.8 to 121.0)
Dominica	40-44 years	128.3 (124.2 to 132.4)	121.5 (117.9 to 125.0)	129.2 (125.8 to 132.9)	120.9 (117.8 to 124.3)
Dominica	45-49 years	130.9 (126.5 to 135.2)	125.1 (121.3 to 129.0)	132.1 (128.3 to 135.7)	124.4 (121.1 to 127.5)
Dominica	50-54 years	133.4 (129.0 to 138.0)	128.3 (124.7 to 132.2)	134.4 (130.8 to 138.3)	127.7 (124.5 to 130.9)
Dominica	55-59 years	135.8 (131.7 to 140.2)	131.3 (127.4 to 135.2)	137.1 (133.5 to 140.9)	130.8 (127.5 to 134.4)
Dominica	60-64 years	138.0 (133.4 to 142.8)	134.4 (130.2 to 138.5)	139.0 (135.4 to 142.9)	133.8 (130.5 to 137.3)
Dominica	65-69 years	139.3 (134.7 to 144.2)	136.9 (132.3 to 141.3)	140.6 (135.8 to 145.5)	136.6 (132.3 to 141.0)
Dominica	70-74 years	139.7 (134.9 to 144.1)	137.8 (133.6 to 142.0)	140.9 (136.4 to 145.9)	137.5 (133.3 to 141.8)
Dominica	75-79 years	141.1 (136.5 to 145.9)	139.4 (135.1 to 143.8)	142.6 (137.8 to 147.6)	139.3 (134.9 to 143.6)
Dominica	80+ years	141.4 (136.7 to 146.3)	140.6 (136.2 to 144.8)	142.4 (137.7 to 147.7)	140.4 (136.1 to 144.7)
Dominica	Age-standardized	131.3 (130.0 to 132.6)	125.1 (124.0 to 126.3)	132.4 (131.2 to 133.5)	124.7 (123.7 to 125.7)
Dominican Republic	25-29 years	114.9 (110.8 to 118.9)	110.8 (107.5 to 114.2)	117.6 (113.4 to 121.8)	112.7 (109.3 to 116.1)
Dominican Republic	30-34 years	120.5 (116.4 to 124.5)	113.2 (109.7 to 116.6)	123.3 (119.1 to 127.6)	115.3 (111.8 to 119.1)
Dominican Republic	35-39 years	121.4 (117.1 to 125.8)	116.2 (112.6 to 119.7)	123.9 (119.7 to 128.4)	117.3 (113.7 to 121.2)
Dominican Republic	40-44 years	123.0 (118.9 to 127.6)	120.7 (116.9 to 124.5)	125.0 (120.9 to 129.2)	120.6 (116.9 to 124.6)
Dominican Republic	45-49 years	125.8 (121.6 to 130.2)	125.2 (121.2 to 129.2)	128.9 (124.4 to 133.6)	125.0 (121.1 to 129.2)
Dominican Republic	50-54 years	129.0 (124.7 to 133.4)	129.3 (125.2 to 133.3)	131.6 (127.2 to 136.2)	128.5 (124.7 to 132.7)
Dominican Republic	55-59 years	131.9 (127.5 to 136.5)	132.2 (128.0 to 136.6)	134.6 (130.0 to 139.2)	131.4 (127.4 to 135.4)
Dominican Republic	60-64 years	134.2 (129.4 to 138.4)	135.6 (131.3 to 140.0)	137.2 (132.3 to 142.1)	135.2 (131.2 to 139.3)
Dominican Republic	65-69 years	135.6 (130.8 to 140.3)	138.4 (134.1 to 142.9)	139.3 (134.4 to 144.2)	138.8 (134.7 to 143.5)
Dominican Republic	70-74 years	136.0 (131.6 to 140.8)	139.1 (135.0 to 143.5)	139.7 (134.8 to 144.6)	139.9 (136.0 to 144.4)
Dominican Republic	75-79 years	136.6 (132.0 to 141.5)	140.4 (136.0 to 144.8)	141.3 (136.8 to 145.8)	141.2 (136.9 to 145.9)
Dominican Republic	80+ years	136.5 (131.8 to 141.1)	140.8 (136.4 to 145.2)	140.8 (136.0 to 145.8)	141.7 (137.2 to 146.1)
Dominican Republic	Age-standardized	126.0 (124.8 to 127.4)	124.4 (123.2 to 125.6)	128.9 (127.5 to 130.3)	125.0 (123.9 to 126.2)
Grenada	25-29 years	114.7 (110.8 to 118.5)	110.4 (107.0 to 114.0)	117.9 (113.9 to 121.8)	112.2 (108.7 to 115.6)
Grenada	30-34 years	120.4 (116.7 to 124.7)	112.9 (109.5 to 116.5)	123.6 (119.3 to 127.9)	114.8 (111.0 to 118.4)
Grenada	35-39 years	121.2 (117.1 to 125.5)	115.7 (112.2 to 119.6)	124.1 (119.9 to 128.4)	116.7 (113.3 to 120.4)
Grenada	40-44 years	123.0 (119.0 to 127.5)	120.4 (116.5 to 124.3)	125.0 (120.6 to 129.5)	119.9 (116.2 to 124.0)
Grenada	45-49 years	125.9 (121.9 to 130.3)	124.7 (121.0 to 128.5)	129.2 (124.7 to 133.4)	124.4 (120.7 to 128.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Grenada	50-54 years	128.7 (124.4 to 133.1)	128.8 (124.8 to 132.9)	131.9 (127.4 to 136.3)	127.7 (123.6 to 131.7)
Grenada	55-59 years	132.0 (127.7 to 136.7)	131.9 (127.5 to 136.0)	134.9 (130.0 to 139.6)	130.8 (126.7 to 134.8)
Grenada	60-64 years	134.1 (129.3 to 138.6)	135.3 (131.1 to 139.4)	137.3 (132.9 to 142.3)	134.7 (130.6 to 138.9)
Grenada	65-69 years	135.4 (131.0 to 140.0)	137.9 (133.7 to 142.2)	139.3 (134.8 to 144.1)	138.2 (133.4 to 142.9)
Grenada	70-74 years	135.9 (131.1 to 140.6)	138.7 (134.6 to 143.4)	139.6 (134.3 to 144.5)	139.3 (134.9 to 143.7)
Grenada	75-79 years	136.4 (131.8 to 141.1)	140.0 (135.7 to 144.8)	141.2 (136.6 to 146.2)	140.5 (136.0 to 144.8)
Grenada	80+ years	136.1 (131.7 to 141.2)	140.3 (136.0 to 144.8)	140.6 (135.6 to 145.7)	141.1 (136.7 to 145.7)
Grenada	Age-standardized	125.9 (124.5 to 127.3)	124.0 (122.8 to 125.1)	129.1 (127.8 to 130.5)	124.4 (123.2 to 125.6)
Guyana	25-29 years	114.4 (110.8 to 118.2)	110.9 (107.6 to 114.3)	117.4 (113.2 to 121.7)	112.8 (109.3 to 116.4)
Guyana	30-34 years	120.2 (115.7 to 124.3)	113.5 (109.8 to 117.1)	122.9 (118.6 to 127.3)	115.5 (111.8 to 119.1)
Guyana	35-39 years	121.0 (116.9 to 125.1)	116.2 (112.8 to 119.9)	123.6 (119.3 to 127.9)	117.6 (113.9 to 121.3)
Guyana	40-44 years	122.8 (118.4 to 127.1)	120.9 (117.1 to 124.6)	124.7 (120.7 to 129.1)	120.6 (116.7 to 124.6)
Guyana	45-49 years	125.4 (121.1 to 129.8)	125.2 (121.3 to 129.2)	128.6 (124.1 to 133.0)	125.1 (121.2 to 128.8)
Guyana	50-54 years	128.5 (124.5 to 132.7)	129.3 (125.5 to 133.6)	131.2 (127.1 to 135.9)	128.5 (124.6 to 132.7)
Guyana	55-59 years	131.7 (127.3 to 136.0)	132.6 (128.4 to 137.0)	134.3 (129.8 to 138.7)	131.7 (127.5 to 136.2)
Guyana	60-64 years	134.0 (129.4 to 138.5)	136.0 (131.6 to 140.1)	136.9 (131.9 to 141.6)	135.5 (131.3 to 139.8)
Guyana	65-69 years	135.3 (130.6 to 140.0)	138.8 (134.5 to 143.4)	138.8 (134.0 to 144.0)	139.3 (135.0 to 143.6)
Guyana	70-74 years	135.4 (130.9 to 139.7)	139.5 (135.5 to 144.0)	138.9 (134.2 to 143.7)	140.4 (136.1 to 144.8)
Guyana	75-79 years	136.2 (131.8 to 141.0)	140.7 (136.3 to 145.2)	140.5 (135.7 to 145.6)	141.5 (137.1 to 146.1)
Guyana	80+ years	136.0 (131.6 to 140.6)	141.1 (136.9 to 145.5)	139.9 (135.1 to 145.0)	142.1 (137.8 to 146.5)
Guyana	Age-standardized	125.7 (124.4 to 126.9)	124.6 (123.4 to 125.9)	128.6 (127.3 to 129.9)	125.2 (124.0 to 126.3)
Haiti	25-29 years	113.8 (110.0 to 117.6)	111.6 (108.1 to 115.2)	116.5 (112.4 to 120.4)	113.8 (110.4 to 117.2)
Haiti	30-34 years	119.4 (115.4 to 123.6)	114.0 (110.3 to 117.8)	122.0 (117.7 to 126.4)	116.3 (112.9 to 119.9)
Haiti	35-39 years	120.2 (115.8 to 124.4)	116.8 (113.1 to 120.2)	122.6 (118.5 to 126.9)	118.4 (114.8 to 122.2)
Haiti	40-44 years	122.0 (117.9 to 126.2)	121.3 (117.4 to 125.0)	123.6 (119.5 to 127.8)	121.5 (117.6 to 125.3)
Haiti	45-49 years	124.7 (120.3 to 129.2)	125.7 (121.9 to 129.8)	127.5 (123.2 to 131.9)	125.7 (121.7 to 129.5)
Haiti	50-54 years	127.6 (123.3 to 132.2)	129.4 (125.3 to 133.4)	130.2 (125.7 to 134.5)	129.3 (125.2 to 133.3)
Haiti	55-59 years	130.7 (126.5 to 135.1)	132.8 (128.9 to 137.2)	133.1 (128.6 to 137.9)	132.4 (128.3 to 136.5)
Haiti	60-64 years	132.9 (128.5 to 137.7)	136.1 (132.1 to 140.5)	135.5 (130.8 to 140.5)	136.1 (132.1 to 140.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Haiti	65-69 years	134.3 (129.7 to 139.1)	139.0 (134.7 to 143.3)	137.6 (133.0 to 142.4)	139.6 (135.3 to 144.3)
Haiti	70-74 years	134.5 (129.8 to 139.2)	139.6 (135.3 to 144.0)	137.9 (133.5 to 142.5)	140.7 (136.4 to 145.0)
Haiti	75-79 years	135.3 (130.8 to 140.6)	141.0 (136.9 to 145.6)	139.5 (134.8 to 144.2)	142.1 (137.8 to 146.4)
Haiti	80+ years	135.3 (130.6 to 139.6)	141.6 (137.1 to 146.2)	139.0 (134.2 to 143.8)	142.7 (138.5 to 147.2)
Haiti	Age-standardized	124.9 (123.5 to 126.1)	125.0 (123.9 to 126.2)	127.5 (126.0 to 128.9)	125.9 (124.7 to 127.1)
Jamaica	25-29 years	113.1 (109.7 to 116.6)	110.5 (107.6 to 113.6)	116.8 (113.1 to 120.8)	112.8 (109.6 to 116.2)
Jamaica	30-34 years	118.4 (114.8 to 121.8)	113.2 (110.2 to 116.2)	122.4 (118.6 to 126.5)	115.5 (112.2 to 118.9)
Jamaica	35-39 years	119.4 (115.7 to 123.0)	115.3 (112.1 to 118.4)	123.3 (119.3 to 127.4)	118.3 (114.9 to 121.7)
Jamaica	40-44 years	120.1 (116.5 to 123.7)	118.9 (115.5 to 122.3)	124.0 (119.9 to 128.1)	121.7 (118.0 to 125.5)
Jamaica	45-49 years	123.0 (119.2 to 126.7)	122.9 (119.3 to 126.5)	130.4 (126.4 to 134.9)	128.2 (124.3 to 131.9)
Jamaica	50-54 years	125.4 (121.8 to 129.3)	126.4 (123.0 to 130.0)	133.3 (128.9 to 137.9)	132.0 (128.3 to 135.8)
Jamaica	55-59 years	128.2 (124.4 to 131.9)	129.4 (125.7 to 133.1)	136.4 (132.0 to 140.9)	134.3 (130.1 to 138.3)
Jamaica	60-64 years	130.3 (126.6 to 134.1)	132.4 (128.9 to 136.3)	138.5 (133.8 to 143.2)	137.5 (133.3 to 141.7)
Jamaica	65-69 years	131.8 (127.9 to 135.6)	135.2 (131.7 to 138.9)	138.3 (133.7 to 142.9)	139.5 (135.2 to 143.6)
Jamaica	70-74 years	132.0 (127.9 to 136.1)	135.9 (132.1 to 139.6)	138.0 (133.2 to 142.8)	140.2 (136.1 to 144.3)
Jamaica	75-79 years	134.7 (130.2 to 139.0)	138.3 (134.4 to 142.5)	139.2 (134.3 to 144.1)	140.9 (136.6 to 145.0)
Jamaica	80+ years	134.3 (129.9 to 138.8)	138.8 (134.6 to 142.8)	138.0 (133.4 to 142.8)	140.4 (136.0 to 144.8)
Jamaica	Age-standardized	123.3 (122.2 to 124.4)	122.6 (121.6 to 123.7)	128.8 (127.5 to 130.1)	126.3 (125.2 to 127.4)
Puerto Rico	25-29 years	115.9 (112.0 to 120.2)	109.5 (106.2 to 112.9)	118.6 (114.7 to 122.7)	111.8 (108.3 to 115.4)
Puerto Rico	30-34 years	121.6 (117.6 to 125.8)	112.2 (108.5 to 115.8)	124.3 (120.0 to 128.7)	114.1 (110.8 to 117.4)
Puerto Rico	35-39 years	122.5 (118.3 to 126.8)	114.9 (111.4 to 118.4)	124.8 (120.6 to 128.9)	116.1 (112.4 to 119.5)
Puerto Rico	40-44 years	124.2 (120.1 to 128.5)	119.5 (115.8 to 123.5)	126.0 (121.8 to 130.5)	119.5 (116.0 to 123.3)
Puerto Rico	45-49 years	127.1 (122.6 to 131.6)	123.9 (120.1 to 128.2)	129.9 (125.6 to 134.3)	123.7 (119.9 to 127.8)
Puerto Rico	50-54 years	130.1 (125.6 to 134.8)	127.8 (124.0 to 131.9)	132.7 (128.3 to 137.2)	127.3 (123.4 to 131.6)
Puerto Rico	55-59 years	133.2 (128.8 to 137.9)	131.1 (127.0 to 135.1)	135.7 (131.2 to 140.2)	130.4 (126.5 to 134.6)
Puerto Rico	60-64 years	135.4 (130.8 to 140.6)	134.5 (130.4 to 138.8)	138.1 (133.4 to 142.9)	134.3 (130.2 to 138.1)
Puerto Rico	65-69 years	136.7 (132.3 to 141.4)	137.0 (132.8 to 141.1)	140.1 (135.6 to 144.6)	137.8 (133.4 to 142.0)
Puerto Rico	70-74 years	137.0 (132.3 to 141.9)	137.9 (133.2 to 142.5)	140.4 (135.2 to 145.3)	138.8 (134.5 to 143.4)
Puerto Rico	75-79 years	137.6 (133.1 to 142.6)	139.2 (134.9 to 143.6)	142.0 (136.9 to 147.2)	140.0 (135.6 to 144.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Puerto Rico	80+ years	137.5 (132.9 to 142.2)	139.4 (135.2 to 144.0)	141.3 (136.7 to 146.1)	140.8 (136.3 to 145.3)
Puerto Rico	Age-standardized	127.2 (125.9 to 128.5)	123.2 (121.9 to 124.3)	129.9 (128.6 to 131.2)	123.9 (122.6 to 125.1)
Saint Lucia	25-29 years	117.5 (114.0 to 121.2)	111.7 (108.8 to 114.9)	120.8 (118.5 to 123.4)	114.7 (112.7 to 116.5)
Saint Lucia	30-34 years	123.0 (119.4 to 126.6)	114.4 (111.2 to 117.5)	126.6 (123.9 to 129.0)	117.3 (115.2 to 119.4)
Saint Lucia	35-39 years	124.1 (120.8 to 127.8)	117.8 (114.6 to 121.2)	127.4 (124.8 to 129.9)	119.0 (117.0 to 121.1)
Saint Lucia	40-44 years	124.7 (121.2 to 128.5)	121.4 (118.1 to 124.9)	127.7 (125.3 to 130.2)	122.0 (119.9 to 124.2)
Saint Lucia	45-49 years	126.9 (123.4 to 130.9)	126.1 (122.7 to 129.5)	130.4 (128.0 to 133.0)	125.5 (123.4 to 127.7)
Saint Lucia	50-54 years	129.4 (125.3 to 133.2)	129.9 (126.6 to 133.5)	132.9 (130.5 to 135.4)	128.8 (126.5 to 131.0)
Saint Lucia	55-59 years	132.0 (128.2 to 135.9)	132.8 (129.3 to 136.6)	135.4 (132.9 to 138.1)	131.9 (129.7 to 134.3)
Saint Lucia	60-64 years	134.0 (130.2 to 137.8)	135.6 (131.8 to 139.6)	137.4 (134.9 to 140.1)	134.9 (132.6 to 137.3)
Saint Lucia	65-69 years	135.8 (131.6 to 139.7)	137.0 (133.5 to 140.7)	139.1 (134.5 to 144.2)	137.2 (133.2 to 141.7)
Saint Lucia	70-74 years	135.8 (131.8 to 140.0)	137.3 (133.6 to 141.5)	138.7 (134.1 to 143.6)	138.0 (133.9 to 142.5)
Saint Lucia	75-79 years	136.7 (132.9 to 140.4)	138.6 (134.4 to 142.4)	140.1 (135.4 to 144.7)	139.2 (135.0 to 143.5)
Saint Lucia	80+ years	136.3 (132.6 to 140.2)	138.8 (135.2 to 142.5)	139.4 (134.7 to 144.4)	139.7 (135.7 to 144.1)
Saint Lucia	Age-standardized	127.4 (126.2 to 128.4)	124.9 (123.8 to 125.8)	130.7 (129.8 to 131.6)	125.6 (124.9 to 126.4)
Saint Vincent and the Grenadines	25-29 years	114.8 (111.0 to 119.0)	110.2 (106.9 to 113.8)	117.9 (114.0 to 122.0)	112.4 (108.8 to 116.2)
Saint Vincent and the Grenadines	30-34 years	120.4 (116.2 to 124.4)	112.9 (109.2 to 116.6)	123.6 (119.3 to 127.9)	114.9 (111.4 to 118.8)
Saint Vincent and the Grenadines	35-39 years	121.5 (117.4 to 126.0)	115.5 (111.9 to 119.3)	124.2 (120.4 to 128.6)	116.9 (113.5 to 120.6)
Saint Vincent and the Grenadines	40-44 years	123.2 (118.8 to 127.5)	120.1 (116.5 to 123.9)	125.2 (121.0 to 129.5)	120.0 (116.3 to 124.1)
Saint Vincent and the Grenadines	45-49 years	126.2 (122.0 to 130.7)	124.6 (120.7 to 128.2)	129.1 (124.6 to 133.7)	124.6 (120.6 to 128.6)
Saint Vincent and the Grenadines	50-54 years	128.9 (124.6 to 133.4)	128.5 (124.6 to 132.4)	132.0 (127.6 to 136.5)	127.8 (123.8 to 131.9)
Saint Vincent and the Grenadines	55-59 years	132.0 (127.8 to 136.5)	131.7 (127.7 to 135.7)	134.9 (130.2 to 140.0)	131.1 (126.9 to 135.6)
Saint Vincent and the Grenadines	60-64 years	134.2 (129.6 to 138.8)	135.2 (131.2 to 139.6)	137.5 (132.5 to 142.1)	134.9 (131.0 to 139.3)
Saint Vincent and the Grenadines	65-69 years	135.6 (130.9 to 140.3)	137.9 (133.4 to 142.4)	139.4 (134.6 to 144.4)	138.4 (134.0 to 142.7)
Saint Vincent and the Grenadines	70-74 years	136.0 (131.4 to 140.6)	138.3 (134.0 to 142.7)	139.8 (134.9 to 144.6)	139.4 (135.0 to 144.1)
Saint Vincent and the Grenadines	75-79 years	136.6 (132.1 to 141.4)	139.7 (135.6 to 144.1)	141.2 (136.7 to 146.1)	140.7 (136.4 to 145.1)
Saint Vincent and the Grenadines	80+ years	136.6 (131.8 to 141.2)	140.0 (135.9 to 144.3)	140.5 (135.9 to 145.3)	141.4 (137.2 to 146.0)
Saint Vincent and the Grenadines	Age-standardized	126.1 (124.7 to 127.4)	123.8 (122.7 to 125.0)	129.2 (127.8 to 130.7)	124.6 (123.4 to 125.8)
Suriname	25-29 years	114.8 (110.8 to 118.9)	110.5 (106.9 to 114.0)	117.8 (114.2 to 122.0)	112.6 (109.2 to 116.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Suriname	30-34 years	120.4 (116.1 to 124.7)	113.1 (109.7 to 116.8)	123.4 (119.1 to 127.6)	115.0 (111.5 to 118.6)
Suriname	35-39 years	121.4 (117.2 to 125.5)	115.9 (112.3 to 119.6)	124.0 (119.8 to 128.4)	117.1 (113.5 to 120.7)
Suriname	40-44 years	123.1 (118.9 to 127.3)	120.6 (116.6 to 124.6)	125.1 (120.8 to 129.4)	120.4 (116.9 to 124.3)
Suriname	45-49 years	126.0 (121.8 to 130.5)	124.9 (121.1 to 128.7)	129.1 (124.8 to 133.5)	124.8 (120.9 to 128.6)
Suriname	50-54 years	129.0 (124.8 to 133.5)	128.9 (124.8 to 132.8)	131.8 (127.4 to 136.6)	128.4 (124.5 to 132.3)
Suriname	55-59 years	132.0 (127.6 to 136.6)	132.1 (127.9 to 136.3)	134.9 (130.2 to 139.7)	131.4 (127.6 to 135.6)
Suriname	60-64 years	134.2 (129.8 to 138.8)	135.5 (131.2 to 139.9)	137.3 (132.3 to 142.3)	135.2 (131.1 to 139.7)
Suriname	65-69 years	135.5 (131.0 to 140.3)	138.4 (134.1 to 142.8)	139.3 (134.5 to 144.1)	138.9 (134.5 to 143.1)
Suriname	70-74 years	135.9 (131.1 to 140.6)	139.1 (134.8 to 143.3)	139.7 (135.0 to 144.5)	139.8 (135.7 to 144.2)
Suriname	75-79 years	136.7 (131.9 to 141.2)	140.3 (135.9 to 144.6)	141.2 (136.4 to 146.8)	141.3 (137.1 to 145.8)
Suriname	80+ years	136.4 (131.9 to 141.0)	140.7 (136.4 to 145.1)	140.6 (135.7 to 145.2)	141.9 (137.6 to 146.5)
Suriname	Age-standardized	126.0 (124.7 to 127.3)	124.2 (123.0 to 125.3)	129.1 (127.7 to 130.4)	124.9 (123.7 to 126.1)
Trinidad and Tobago	25-29 years	117.2 (113.1 to 121.4)	109.6 (106.2 to 113.2)	122.2 (119.3 to 125.0)	114.9 (112.3 to 117.6)
Trinidad and Tobago	30-34 years	121.9 (118.1 to 126.0)	110.6 (107.2 to 113.8)	127.8 (125.1 to 130.8)	116.7 (113.9 to 119.4)
Trinidad and Tobago	35-39 years	122.2 (118.2 to 126.4)	114.5 (110.9 to 118.2)	127.3 (124.2 to 130.5)	119.5 (116.6 to 122.6)
Trinidad and Tobago	40-44 years	122.0 (118.2 to 125.8)	116.8 (113.6 to 120.5)	127.7 (124.5 to 130.8)	122.4 (119.4 to 125.4)
Trinidad and Tobago	45-49 years	125.1 (121.4 to 129.2)	122.9 (119.3 to 126.7)	132.8 (129.4 to 136.1)	129.5 (126.5 to 132.6)
Trinidad and Tobago	50-54 years	132.6 (128.1 to 137.3)	129.6 (125.8 to 133.6)	136.4 (132.8 to 140.2)	133.3 (130.2 to 136.5)
Trinidad and Tobago	55-59 years	142.1 (137.4 to 147.2)	132.9 (128.9 to 137.0)	141.4 (137.5 to 145.5)	135.7 (132.8 to 138.7)
Trinidad and Tobago	60-64 years	145.5 (140.7 to 150.4)	138.7 (134.6 to 143.3)	143.7 (139.6 to 147.9)	139.5 (136.3 to 143.1)
Trinidad and Tobago	65-69 years	139.7 (134.7 to 144.5)	141.5 (137.3 to 145.7)	141.7 (136.9 to 146.6)	141.0 (136.7 to 145.5)
Trinidad and Tobago	70-74 years	147.7 (142.7 to 152.2)	141.5 (137.0 to 145.8)	148.1 (143.0 to 153.1)	140.9 (136.3 to 145.3)
Trinidad and Tobago	75-79 years	148.9 (143.9 to 153.7)	143.2 (138.8 to 148.0)	149.4 (144.4 to 154.6)	142.6 (138.3 to 146.9)
Trinidad and Tobago	80+ years	149.1 (144.0 to 153.9)	144.4 (140.1 to 148.7)	149.5 (144.4 to 154.8)	143.7 (139.3 to 148.2)
Trinidad and Tobago	Age-standardized	130.0 (128.7 to 131.4)	123.9 (122.8 to 125.1)	133.7 (132.7 to 134.9)	127.7 (126.8 to 128.7)
Virgin Islands, U.S.	25-29 years	115.6 (111.8 to 119.5)	109.8 (106.3 to 113.3)	118.4 (114.4 to 122.9)	111.9 (108.4 to 115.4)
Virgin Islands, U.S.	30-34 years	121.4 (117.5 to 125.8)	112.3 (108.9 to 115.7)	124.2 (119.8 to 128.4)	114.3 (110.9 to 117.7)
Virgin Islands, U.S.	35-39 years	122.4 (117.8 to 126.7)	115.0 (111.2 to 118.5)	124.9 (120.4 to 129.3)	116.3 (112.7 to 119.8)
Virgin Islands, U.S.	40-44 years	124.0 (119.8 to 128.0)	119.7 (116.1 to 123.8)	125.8 (121.3 to 130.4)	119.4 (115.6 to 123.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Virgin Islands, U.S.	45-49 years	126.8 (122.7 to 131.4)	123.9 (120.0 to 127.9)	129.7 (125.2 to 134.1)	123.8 (120.2 to 127.8)
Virgin Islands, U.S.	50-54 years	129.8 (125.4 to 134.4)	127.9 (124.2 to 131.9)	132.5 (127.9 to 137.3)	127.2 (123.1 to 131.3)
Virgin Islands, U.S.	55-59 years	133.0 (128.4 to 137.7)	131.1 (127.2 to 135.3)	135.5 (131.2 to 140.2)	130.3 (126.2 to 134.6)
Virgin Islands, U.S.	60-64 years	135.2 (130.5 to 139.7)	134.3 (130.3 to 138.8)	138.1 (133.7 to 142.7)	134.1 (130.0 to 138.2)
Virgin Islands, U.S.	65-69 years	136.6 (132.1 to 141.5)	137.3 (133.2 to 141.9)	140.0 (135.4 to 144.6)	137.6 (133.3 to 142.0)
Virgin Islands, U.S.	70-74 years	136.8 (131.9 to 141.6)	137.8 (133.4 to 142.3)	140.2 (135.4 to 145.5)	138.7 (134.5 to 143.1)
Virgin Islands, U.S.	75-79 years	137.5 (132.7 to 142.8)	139.3 (135.1 to 143.3)	141.9 (136.8 to 146.8)	140.0 (135.7 to 144.2)
Virgin Islands, U.S.	80+ years	137.6 (132.9 to 142.1)	139.5 (134.8 to 143.7)	141.5 (136.7 to 146.5)	140.8 (136.5 to 145.3)
Virgin Islands, U.S.	Age-standardized	127.0 (125.6 to 128.3)	123.3 (122.1 to 124.4)	129.8 (128.4 to 131.2)	123.9 (122.6 to 125.0)
Bolivia	25-29 years	111.7 (107.3 to 116.1)	107.1 (104.5 to 109.8)	115.8 (111.1 to 120.4)	109.0 (106.2 to 112.0)
Bolivia	30-34 years	117.2 (112.7 to 122.1)	108.7 (105.8 to 111.6)	122.4 (117.7 to 127.2)	112.2 (109.1 to 115.1)
Bolivia	35-39 years	118.0 (113.4 to 123.4)	110.8 (107.8 to 113.8)	122.9 (118.0 to 128.0)	114.0 (110.9 to 117.1)
Bolivia	40-44 years	118.9 (114.6 to 123.4)	115.5 (112.2 to 118.6)	123.9 (119.0 to 129.0)	117.1 (114.2 to 120.4)
Bolivia	45-49 years	121.6 (117.0 to 126.4)	119.3 (116.1 to 122.4)	125.8 (120.7 to 130.8)	120.9 (117.6 to 124.0)
Bolivia	50-54 years	124.2 (119.6 to 129.3)	122.8 (119.6 to 126.3)	127.8 (122.5 to 132.8)	123.9 (120.6 to 127.2)
Bolivia	55-59 years	126.8 (121.8 to 132.1)	125.9 (122.5 to 129.2)	130.9 (125.7 to 136.1)	126.9 (123.4 to 130.1)
Bolivia	60-64 years	128.9 (124.0 to 134.2)	129.1 (125.7 to 132.3)	133.6 (128.5 to 139.1)	130.5 (127.3 to 133.8)
Bolivia	65-69 years	131.9 (127.1 to 137.3)	132.8 (129.4 to 136.4)	135.8 (130.7 to 141.1)	135.0 (131.6 to 138.6)
Bolivia	70-74 years	133.3 (127.8 to 138.8)	134.5 (131.0 to 137.9)	138.1 (132.4 to 143.6)	138.4 (134.6 to 142.1)
Bolivia	75-79 years	139.1 (134.1 to 144.6)	136.3 (132.6 to 139.9)	143.8 (138.1 to 149.5)	142.2 (138.3 to 146.2)
Bolivia	80+ years	138.8 (132.8 to 144.4)	137.1 (133.4 to 140.5)	140.8 (134.9 to 146.5)	143.4 (139.6 to 147.2)
Bolivia	Age-standardized	122.6 (121.1 to 124.0)	119.2 (118.2 to 120.1)	126.9 (125.3 to 128.5)	121.6 (120.7 to 122.6)
Ecuador	25-29 years	109.5 (105.3 to 114.1)	106.0 (103.4 to 108.6)	113.6 (109.5 to 117.7)	108.0 (105.6 to 110.6)
Ecuador	30-34 years	114.9 (110.2 to 119.5)	108.1 (105.4 to 111.1)	120.7 (117.5 to 123.6)	112.1 (109.9 to 114.2)
Ecuador	35-39 years	115.6 (111.4 to 120.2)	109.8 (107.0 to 112.8)	121.2 (118.2 to 124.2)	114.2 (112.0 to 116.4)
Ecuador	40-44 years	116.1 (111.7 to 120.6)	113.4 (110.3 to 116.4)	122.1 (119.0 to 125.2)	117.2 (114.9 to 119.4)
Ecuador	45-49 years	118.6 (114.2 to 123.3)	116.9 (113.9 to 120.0)	124.9 (121.7 to 128.2)	120.7 (118.3 to 123.2)
Ecuador	50-54 years	120.9 (116.7 to 125.8)	120.1 (117.0 to 123.4)	127.1 (123.8 to 130.5)	124.0 (121.7 to 126.5)
Ecuador	55-59 years	123.2 (118.4 to 127.9)	123.0 (119.7 to 126.4)	129.4 (126.1 to 132.9)	126.8 (123.9 to 129.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Ecuador	60-64 years	124.9 (120.2 to 129.4)	125.7 (122.4 to 128.8)	129.9 (125.3 to 134.8)	128.2 (125.0 to 131.4)
Ecuador	65-69 years	127.8 (122.9 to 132.7)	128.7 (125.4 to 132.3)	133.1 (128.3 to 138.0)	132.1 (128.6 to 135.8)
Ecuador	70-74 years	128.5 (123.3 to 133.7)	129.8 (126.3 to 133.3)	134.1 (129.0 to 139.4)	134.2 (130.8 to 137.9)
Ecuador	75-79 years	132.6 (127.6 to 138.1)	131.5 (128.0 to 135.0)	138.3 (132.9 to 144.1)	136.8 (133.3 to 140.6)
Ecuador	80+ years	133.8 (128.4 to 139.4)	132.7 (129.0 to 136.3)	136.8 (131.3 to 142.5)	138.2 (134.8 to 141.9)
Ecuador	Age-standardized	119.4 (117.9 to 120.8)	116.9 (116.0 to 117.8)	124.8 (123.7 to 126.1)	120.6 (119.8 to 121.4)
Peru	25-29 years	111.5 (107.3 to 115.8)	107.3 (104.3 to 110.2)	116.0 (111.8 to 120.2)	108.9 (106.2 to 111.6)
Peru	30-34 years	116.6 (112.3 to 121.2)	106.9 (104.2 to 109.7)	124.1 (121.5 to 126.9)	112.2 (110.2 to 114.1)
Peru	35-39 years	117.4 (112.9 to 121.8)	108.5 (105.8 to 111.5)	124.6 (122.0 to 127.3)	113.7 (111.6 to 115.8)
Peru	40-44 years	117.8 (113.3 to 122.1)	114.2 (111.3 to 117.2)	125.8 (123.1 to 128.6)	116.5 (114.3 to 118.5)
Peru	45-49 years	120.4 (115.9 to 125.0)	118.0 (115.0 to 121.1)	126.5 (123.7 to 129.5)	120.2 (118.1 to 122.5)
Peru	50-54 years	122.8 (118.1 to 127.3)	121.3 (118.2 to 124.3)	127.7 (124.6 to 130.5)	122.8 (120.6 to 125.1)
Peru	55-59 years	125.0 (120.4 to 129.8)	124.3 (121.2 to 127.8)	131.5 (128.6 to 134.6)	125.4 (123.2 to 127.8)
Peru	60-64 years	126.9 (122.3 to 131.7)	127.1 (124.0 to 130.6)	133.9 (130.9 to 137.2)	129.4 (127.0 to 131.7)
Peru	65-69 years	130.4 (125.4 to 135.4)	130.4 (127.1 to 133.9)	135.4 (132.0 to 138.7)	134.2 (131.4 to 136.9)
Peru	70-74 years	131.3 (126.4 to 136.1)	131.4 (127.9 to 134.8)	137.8 (134.6 to 141.3)	137.9 (135.1 to 140.7)
Peru	75-79 years	139.3 (133.9 to 145.2)	133.1 (129.5 to 136.7)	145.8 (142.4 to 149.7)	141.7 (138.7 to 144.7)
Peru	80+ years	138.9 (133.2 to 144.9)	133.6 (129.8 to 137.0)	141.2 (137.5 to 145.2)	143.1 (140.5 to 146.0)
Peru	Age-standardized	121.6 (120.2 to 123.0)	117.5 (116.6 to 118.5)	127.8 (126.9 to 128.8)	121.0 (120.4 to 121.7)
Colombia	25-29 years	113.5 (109.4 to 117.9)	106.1 (101.9 to 110.5)	116.7 (112.3 to 121.2)	107.5 (103.5 to 111.5)
Colombia	30-34 years	120.6 (115.7 to 125.5)	111.3 (106.9 to 115.6)	123.7 (118.9 to 128.5)	111.7 (107.4 to 115.8)
Colombia	35-39 years	121.6 (116.8 to 126.3)	114.3 (109.5 to 118.9)	124.7 (120.1 to 129.1)	114.6 (109.7 to 119.1)
Colombia	40-44 years	122.6 (118.1 to 127.3)	121.0 (115.9 to 126.0)	125.3 (120.6 to 130.0)	118.2 (113.5 to 122.9)
Colombia	45-49 years	125.3 (120.2 to 130.5)	124.6 (119.7 to 130.1)	127.7 (123.0 to 132.9)	123.3 (118.6 to 128.3)
Colombia	50-54 years	129.0 (124.1 to 134.2)	130.2 (124.8 to 136.0)	130.3 (125.3 to 135.4)	127.8 (122.7 to 133.1)
Colombia	55-59 years	132.1 (127.0 to 137.5)	133.7 (128.2 to 139.2)	133.8 (128.4 to 138.7)	131.7 (126.3 to 136.6)
Colombia	60-64 years	135.5 (130.2 to 140.8)	136.4 (130.7 to 142.3)	137.7 (132.4 to 143.5)	136.1 (131.0 to 141.5)
Colombia	65-69 years	143.8 (138.0 to 149.9)	143.1 (136.9 to 149.3)	145.1 (139.6 to 150.5)	142.9 (136.9 to 149.2)
Colombia	70-74 years	143.9 (138.2 to 150.1)	144.2 (138.5 to 150.5)	145.1 (139.8 to 151.1)	143.7 (137.3 to 150.0)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Colombia	75-79 years	145.4 (139.6 to 151.3)	146.0 (140.0 to 152.0)	147.0 (141.5 to 153.0)	145.2 (139.2 to 151.6)
Colombia	80+ years	145.3 (139.6 to 150.7)	147.3 (140.8 to 153.9)	146.5 (140.9 to 152.4)	146.8 (140.6 to 153.9)
Colombia	Age-standardized	127.4 (125.8 to 128.9)	124.5 (122.8 to 126.0)	129.7 (128.2 to 131.3)	123.8 (122.4 to 125.3)
Costa Rica	25-29 years	120.7 (115.7 to 125.3)	116.2 (111.4 to 121.2)	121.5 (116.7 to 126.3)	115.6 (110.4 to 120.7)
Costa Rica	30-34 years	125.9 (121.0 to 131.5)	118.8 (113.9 to 124.1)	126.8 (121.8 to 131.8)	117.9 (112.9 to 123.0)
Costa Rica	35-39 years	126.4 (121.4 to 131.5)	121.0 (116.2 to 125.8)	127.3 (122.0 to 132.7)	119.9 (114.8 to 125.1)
Costa Rica	40-44 years	127.2 (121.9 to 132.2)	124.7 (119.8 to 129.7)	127.8 (122.8 to 133.2)	123.8 (118.8 to 129.1)
Costa Rica	45-49 years	130.0 (124.6 to 135.1)	129.0 (123.5 to 134.4)	131.0 (125.7 to 136.3)	128.0 (122.7 to 133.5)
Costa Rica	50-54 years	133.0 (127.8 to 138.4)	133.0 (127.4 to 138.4)	133.7 (128.2 to 139.0)	131.9 (126.5 to 137.4)
Costa Rica	55-59 years	136.0 (130.2 to 141.4)	136.8 (131.0 to 142.7)	136.7 (131.4 to 142.1)	135.7 (130.1 to 141.5)
Costa Rica	60-64 years	138.6 (133.1 to 144.4)	140.5 (134.9 to 146.5)	139.6 (134.4 to 144.6)	139.7 (134.8 to 145.4)
Costa Rica	65-69 years	142.2 (137.0 to 147.9)	143.6 (137.9 to 149.3)	142.7 (137.7 to 148.4)	142.8 (137.0 to 148.5)
Costa Rica	70-74 years	143.6 (137.9 to 148.9)	144.7 (139.3 to 150.8)	144.3 (138.8 to 149.7)	143.8 (138.6 to 149.5)
Costa Rica	75-79 years	145.3 (139.3 to 151.2)	146.8 (141.0 to 152.9)	146.1 (140.8 to 151.2)	145.4 (139.4 to 150.9)
Costa Rica	80+ years	142.9 (137.4 to 148.7)	148.9 (142.8 to 155.3)	143.2 (138.0 to 148.2)	147.8 (142.2 to 153.5)
Costa Rica	Age-standardized	131.2 (129.6 to 132.8)	129.3 (127.7 to 131.0)	132.0 (130.3 to 133.5)	128.4 (126.7 to 130.1)
El Salvador	25-29 years	115.8 (111.3 to 120.3)	110.6 (105.7 to 115.5)	117.8 (113.2 to 122.4)	111.7 (107.1 to 116.5)
El Salvador	30-34 years	121.5 (116.6 to 126.1)	114.3 (109.4 to 119.2)	123.1 (118.4 to 128.2)	114.6 (109.7 to 119.3)
El Salvador	35-39 years	122.4 (117.5 to 127.5)	116.6 (111.3 to 121.6)	123.9 (119.1 to 129.1)	116.6 (111.9 to 121.6)
El Salvador	40-44 years	123.7 (118.9 to 128.7)	121.3 (116.4 to 126.5)	124.7 (120.1 to 129.7)	120.6 (115.8 to 125.7)
El Salvador	45-49 years	126.5 (121.4 to 132.0)	125.7 (120.4 to 131.1)	128.0 (123.2 to 133.4)	124.9 (119.8 to 130.2)
El Salvador	50-54 years	129.2 (123.8 to 134.5)	129.8 (124.7 to 135.4)	130.2 (125.4 to 135.7)	128.8 (123.3 to 134.3)
El Salvador	55-59 years	132.1 (126.4 to 137.7)	132.9 (127.2 to 138.8)	133.0 (128.0 to 138.4)	131.8 (126.4 to 137.8)
El Salvador	60-64 years	134.5 (129.0 to 140.3)	136.1 (130.6 to 142.1)	136.3 (130.7 to 141.7)	135.8 (130.1 to 141.7)
El Salvador	65-69 years	137.1 (131.7 to 142.7)	139.0 (133.3 to 145.2)	138.8 (133.4 to 144.4)	139.7 (134.2 to 146.2)
El Salvador	70-74 years	137.3 (131.7 to 142.8)	140.1 (134.5 to 146.3)	138.3 (132.9 to 144.0)	140.0 (134.2 to 146.3)
El Salvador	75-79 years	138.1 (132.6 to 143.4)	141.1 (135.1 to 147.0)	140.0 (134.6 to 145.9)	140.8 (134.9 to 147.0)
El Salvador	80+ years	137.2 (131.9 to 142.7)	142.0 (135.9 to 148.2)	138.6 (133.3 to 144.1)	142.6 (136.5 to 148.9)
El Salvador	Age-standardized	126.8 (125.3 to 128.4)	125.0 (123.4 to 126.5)	128.3 (126.7 to 129.8)	124.9 (123.2 to 126.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Guatemala	25-29 years	113.5 (109.1 to 117.8)	107.2 (102.6 to 111.7)	115.3 (110.6 to 120.1)	108.1 (103.8 to 112.5)
Guatemala	30-34 years	119.1 (114.3 to 124.2)	110.5 (105.7 to 115.2)	120.7 (116.2 to 125.5)	111.4 (106.7 to 115.8)
Guatemala	35-39 years	120.0 (115.8 to 124.5)	112.7 (107.8 to 117.4)	121.5 (116.8 to 126.3)	113.5 (108.6 to 118.3)
Guatemala	40-44 years	121.2 (116.6 to 126.1)	117.5 (112.8 to 122.7)	122.6 (117.7 to 127.3)	117.7 (112.8 to 122.8)
Guatemala	45-49 years	124.0 (119.1 to 128.9)	122.1 (116.6 to 127.1)	125.6 (120.6 to 130.9)	121.7 (116.5 to 127.1)
Guatemala	50-54 years	126.6 (121.3 to 131.3)	125.4 (120.3 to 130.9)	128.0 (122.9 to 133.0)	125.4 (120.0 to 131.2)
Guatemala	55-59 years	129.4 (124.7 to 134.9)	128.2 (123.2 to 134.1)	130.8 (125.7 to 136.5)	128.3 (122.5 to 133.5)
Guatemala	60-64 years	131.6 (126.5 to 137.1)	131.6 (126.0 to 137.1)	133.6 (128.5 to 138.6)	131.8 (126.5 to 137.6)
Guatemala	65-69 years	134.0 (128.8 to 139.2)	134.5 (128.6 to 140.9)	136.0 (130.6 to 141.8)	135.3 (129.5 to 141.4)
Guatemala	70-74 years	134.3 (129.0 to 139.7)	135.6 (130.1 to 141.6)	135.8 (130.8 to 141.2)	136.2 (130.2 to 141.9)
Guatemala	75-79 years	135.5 (130.2 to 141.1)	136.8 (130.9 to 142.8)	137.6 (132.3 to 143.0)	137.0 (131.0 to 142.8)
Guatemala	80+ years	135.2 (129.8 to 140.7)	137.7 (131.6 to 143.6)	136.6 (131.4 to 142.2)	138.4 (132.9 to 144.5)
Guatemala	Age-standardized	124.3 (122.8 to 125.7)	120.9 (119.4 to 122.6)	125.9 (124.3 to 127.4)	121.4 (119.7 to 123.0)
Honduras	25-29 years	116.7 (112.6 to 121.2)	107.6 (103.2 to 112.0)	118.0 (113.4 to 122.7)	108.3 (104.0 to 112.8)
Honduras	30-34 years	122.2 (117.5 to 126.7)	110.8 (106.3 to 115.6)	123.4 (118.6 to 128.2)	111.4 (106.8 to 116.3)
Honduras	35-39 years	123.0 (118.1 to 127.6)	113.0 (108.5 to 117.9)	124.0 (119.3 to 128.4)	113.6 (109.2 to 118.2)
Honduras	40-44 years	124.8 (119.8 to 129.6)	121.6 (116.5 to 127.1)	125.7 (120.8 to 130.8)	121.1 (116.2 to 126.0)
Honduras	45-49 years	127.6 (122.5 to 132.7)	126.2 (120.9 to 131.3)	128.6 (123.4 to 133.8)	125.5 (120.6 to 131.1)
Honduras	50-54 years	130.1 (125.1 to 135.1)	129.7 (124.4 to 135.2)	131.1 (126.2 to 136.4)	128.9 (123.5 to 134.3)
Honduras	55-59 years	132.9 (127.9 to 138.1)	132.8 (127.9 to 138.7)	133.6 (128.5 to 139.0)	132.3 (126.6 to 137.8)
Honduras	60-64 years	134.9 (129.6 to 140.3)	135.9 (130.2 to 141.9)	136.3 (131.2 to 141.9)	135.8 (130.1 to 141.6)
Honduras	65-69 years	137.1 (132.0 to 142.5)	138.7 (133.1 to 144.4)	138.5 (133.2 to 143.9)	139.4 (133.7 to 145.7)
Honduras	70-74 years	137.2 (131.7 to 142.7)	139.8 (133.4 to 146.1)	138.2 (132.7 to 143.9)	139.6 (134.2 to 145.3)
Honduras	75-79 years	138.1 (133.0 to 143.5)	140.9 (134.5 to 147.2)	139.7 (133.9 to 145.2)	140.3 (134.9 to 146.2)
Honduras	80+ years	137.7 (132.2 to 143.0)	141.5 (136.0 to 147.3)	138.8 (133.1 to 144.7)	141.7 (136.0 to 147.8)
Honduras	Age-standardized	127.5 (126.0 to 129.1)	123.7 (122.2 to 125.2)	128.6 (127.1 to 130.2)	123.7 (122.2 to 125.3)
Mexico	25-29 years	116.1 (115.1 to 117.1)	112.4 (111.3 to 113.4)	116.3 (115.2 to 117.4)	111.4 (110.3 to 112.5)
Mexico	30-34 years	121.3 (120.3 to 122.3)	115.5 (114.5 to 116.4)	121.0 (120.0 to 122.1)	113.7 (112.8 to 114.6)
Mexico	35-39 years	122.6 (121.6 to 123.6)	118.1 (117.0 to 119.0)	121.8 (120.8 to 122.8)	115.9 (114.9 to 116.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Mexico	40-44 years	123.7 (122.8 to 124.8)	120.9 (119.8 to 121.9)	123.2 (122.1 to 124.3)	119.7 (118.6 to 120.8)
Mexico	45-49 years	125.9 (124.8 to 126.9)	125.8 (124.7 to 126.8)	126.4 (125.4 to 127.6)	123.9 (122.9 to 125.1)
Mexico	50-54 years	127.0 (126.0 to 128.0)	128.5 (127.3 to 129.5)	127.8 (126.7 to 128.9)	127.6 (126.4 to 128.8)
Mexico	55-59 years	130.1 (129.0 to 131.3)	131.2 (130.1 to 132.3)	129.6 (128.4 to 130.8)	129.6 (128.4 to 130.8)
Mexico	60-64 years	131.4 (130.3 to 132.4)	133.6 (132.4 to 134.8)	133.2 (132.1 to 134.3)	133.5 (132.2 to 134.8)
Mexico	65-69 years	134.7 (133.6 to 135.9)	135.7 (134.5 to 137.0)	135.4 (134.2 to 136.6)	137.2 (135.9 to 138.5)
Mexico	70-74 years	135.1 (133.9 to 136.2)	137.6 (136.3 to 139.1)	136.5 (135.3 to 137.7)	137.6 (136.3 to 138.9)
Mexico	75-79 years	134.5 (133.2 to 135.6)	137.9 (136.6 to 139.4)	138.6 (137.3 to 139.8)	136.1 (134.9 to 137.3)
Mexico	80+ years	133.2 (132.0 to 134.5)	138.4 (137.0 to 139.8)	136.5 (135.3 to 137.8)	138.7 (137.5 to 140.1)
Mexico	Age-standardized	125.7 (125.4 to 126.1)	124.5 (124.2 to 124.8)	126.1 (125.8 to 126.5)	123.4 (123.1 to 123.7)
Nicaragua	25-29 years	119.8 (115.1 to 124.8)	116.0 (111.3 to 120.7)	120.6 (116.3 to 125.0)	115.4 (111.1 to 119.8)
Nicaragua	30-34 years	125.1 (120.5 to 129.9)	118.5 (113.5 to 123.8)	125.9 (121.4 to 130.4)	117.8 (113.4 to 122.4)
Nicaragua	35-39 years	125.8 (121.0 to 130.7)	120.7 (115.5 to 126.3)	126.5 (121.8 to 131.4)	119.8 (115.0 to 124.4)
Nicaragua	40-44 years	126.6 (122.0 to 131.7)	124.2 (118.8 to 129.4)	126.8 (122.2 to 131.6)	123.0 (118.4 to 127.9)
Nicaragua	45-49 years	129.1 (123.9 to 134.4)	128.1 (123.0 to 133.8)	129.4 (125.0 to 134.5)	126.8 (121.7 to 131.9)
Nicaragua	50-54 years	131.5 (125.9 to 137.1)	131.8 (126.3 to 137.6)	131.5 (126.8 to 136.2)	130.3 (125.3 to 135.2)
Nicaragua	55-59 years	134.3 (128.9 to 139.8)	135.0 (129.3 to 140.5)	134.1 (129.4 to 139.0)	133.3 (128.5 to 138.5)
Nicaragua	60-64 years	136.1 (130.7 to 141.7)	137.7 (131.8 to 143.9)	136.5 (131.9 to 141.7)	136.6 (131.6 to 142.0)
Nicaragua	65-69 years	138.5 (132.8 to 143.9)	140.3 (134.5 to 146.2)	139.6 (134.2 to 145.4)	140.4 (134.4 to 146.4)
Nicaragua	70-74 years	138.7 (133.2 to 144.1)	141.3 (135.3 to 147.6)	139.4 (133.8 to 145.1)	140.9 (135.1 to 147.1)
Nicaragua	75-79 years	140.0 (134.9 to 145.7)	142.6 (136.6 to 149.0)	141.3 (135.9 to 146.9)	142.0 (136.1 to 147.8)
Nicaragua	80+ years	139.4 (134.2 to 144.8)	143.7 (137.5 to 150.0)	140.3 (134.9 to 146.2)	143.5 (137.6 to 149.2)
Nicaragua	Age-standardized	129.6 (128.0 to 131.2)	128.0 (126.2 to 129.5)	130.1 (128.7 to 131.5)	127.0 (125.5 to 128.6)
Panama	25-29 years	116.2 (111.9 to 121.1)	108.9 (104.7 to 113.4)	118.1 (113.4 to 123.0)	110.3 (105.7 to 115.2)
Panama	30-34 years	121.7 (116.7 to 126.7)	112.4 (107.7 to 117.7)	123.4 (118.4 to 128.2)	113.1 (108.0 to 118.2)
Panama	35-39 years	122.6 (117.7 to 127.5)	115.1 (110.7 to 119.9)	124.1 (119.4 to 129.1)	115.1 (110.3 to 120.1)
Panama	40-44 years	123.7 (119.0 to 128.8)	119.6 (114.7 to 124.9)	125.1 (120.1 to 130.2)	119.1 (114.0 to 124.4)
Panama	45-49 years	126.6 (121.6 to 132.2)	123.9 (118.6 to 129.1)	127.8 (122.9 to 133.0)	123.2 (118.1 to 128.3)
Panama	50-54 years	129.3 (124.2 to 134.5)	127.9 (122.8 to 133.4)	130.3 (124.9 to 135.9)	127.0 (121.6 to 132.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Panama	55-59 years	132.1 (127.1 to 137.2)	131.0 (125.7 to 136.8)	133.2 (127.7 to 139.0)	130.0 (124.3 to 135.5)
Panama	60-64 years	134.6 (129.4 to 139.8)	134.1 (128.5 to 139.9)	136.3 (130.8 to 141.7)	134.4 (128.8 to 140.0)
Panama	65-69 years	137.1 (131.7 to 142.9)	137.2 (131.4 to 143.0)	138.8 (133.7 to 144.4)	137.9 (132.1 to 143.9)
Panama	70-74 years	137.6 (131.8 to 143.1)	138.2 (132.4 to 144.2)	138.4 (133.2 to 143.6)	138.3 (132.6 to 144.1)
Panama	75-79 years	138.0 (132.5 to 143.6)	139.3 (133.8 to 145.8)	140.5 (135.4 to 146.0)	138.9 (133.4 to 144.4)
Panama	80+ years	137.3 (131.8 to 142.9)	140.3 (134.2 to 146.7)	138.8 (133.5 to 144.4)	140.6 (134.6 to 146.7)
Panama	Age-standardized	127.0 (125.6 to 128.5)	123.2 (121.6 to 124.8)	128.5 (126.8 to 130.0)	123.2 (121.7 to 124.8)
Venezuela	25-29 years	121.6 (117.4 to 126.0)	115.0 (110.9 to 119.6)	120.0 (115.6 to 124.3)	113.1 (108.7 to 117.8)
Venezuela	30-34 years	127.2 (122.7 to 132.1)	118.1 (113.7 to 122.6)	125.2 (120.4 to 130.1)	115.5 (110.9 to 120.5)
Venezuela	35-39 years	128.1 (123.6 to 132.8)	120.0 (115.6 to 124.5)	126.1 (121.3 to 131.1)	117.6 (112.9 to 122.4)
Venezuela	40-44 years	128.5 (123.4 to 133.0)	123.6 (118.9 to 128.4)	126.6 (121.7 to 131.6)	120.8 (115.8 to 125.8)
Venezuela	45-49 years	131.0 (126.4 to 135.8)	127.1 (122.1 to 131.9)	129.2 (124.1 to 134.2)	124.6 (119.6 to 129.8)
Venezuela	50-54 years	133.4 (128.3 to 138.8)	130.9 (126.1 to 136.0)	131.6 (126.1 to 136.7)	128.1 (123.2 to 132.9)
Venezuela	55-59 years	136.1 (130.9 to 141.1)	133.9 (128.6 to 139.0)	134.3 (129.3 to 139.5)	131.2 (125.8 to 136.7)
Venezuela	60-64 years	137.5 (132.2 to 142.7)	136.5 (131.2 to 141.6)	137.1 (131.5 to 142.6)	134.8 (129.2 to 140.2)
Venezuela	65-69 years	140.4 (134.8 to 145.9)	139.7 (134.1 to 145.6)	141.3 (135.9 to 147.0)	139.7 (133.8 to 145.7)
Venezuela	70-74 years	140.1 (134.5 to 145.3)	140.5 (135.5 to 146.7)	141.3 (135.7 to 147.8)	140.3 (134.4 to 146.5)
Venezuela	75-79 years	140.6 (135.3 to 145.9)	141.0 (135.4 to 147.0)	143.0 (137.4 to 148.6)	141.1 (135.3 to 147.5)
Venezuela	80+ years	139.1 (133.3 to 144.8)	142.0 (136.4 to 147.6)	141.5 (135.9 to 147.4)	142.3 (136.4 to 148.7)
Venezuela	Age-standardized	131.3 (129.8 to 132.8)	127.1 (125.6 to 128.6)	130.2 (128.6 to 131.7)	125.1 (123.6 to 126.5)
Brazil	25-29 years	112.1 (110.2 to 114.0)	107.1 (105.4 to 108.8)	119.1 (117.2 to 121.0)	110.7 (109.1 to 112.3)
Brazil	30-34 years	117.3 (115.3 to 119.4)	111.3 (109.6 to 113.2)	125.4 (123.2 to 127.5)	113.5 (111.8 to 115.3)
Brazil	35-39 years	118.2 (116.0 to 120.2)	113.1 (111.4 to 115.0)	126.9 (124.6 to 129.1)	116.3 (114.6 to 118.2)
Brazil	40-44 years	123.6 (121.5 to 125.9)	119.1 (117.2 to 121.1)	129.2 (127.1 to 131.6)	120.6 (118.7 to 122.5)
Brazil	45-49 years	126.2 (123.9 to 128.3)	122.6 (120.8 to 124.6)	133.3 (130.8 to 135.9)	125.6 (123.4 to 127.7)
Brazil	50-54 years	129.5 (127.1 to 131.7)	129.1 (126.9 to 131.3)	132.0 (129.7 to 134.3)	129.8 (127.8 to 132.1)
Brazil	55-59 years	132.1 (129.8 to 134.4)	132.2 (130.0 to 134.4)	134.3 (131.6 to 136.9)	133.4 (131.3 to 135.6)
Brazil	60-64 years	134.9 (132.4 to 137.4)	134.9 (132.7 to 137.1)	140.5 (138.0 to 143.4)	138.2 (135.8 to 140.6)
Brazil	65-69 years	137.2 (134.9 to 139.5)	138.0 (135.8 to 140.4)	142.5 (140.2 to 144.9)	143.5 (141.4 to 145.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Brazil	70-74 years	138.0 (135.7 to 140.5)	139.9 (137.8 to 142.3)	140.4 (138.1 to 142.8)	143.7 (141.5 to 146.0)
Brazil	75-79 years	139.2 (137.0 to 141.6)	141.8 (139.7 to 144.0)	141.3 (139.0 to 143.6)	146.2 (144.0 to 148.4)
Brazil	80+ years	136.4 (134.2 to 138.7)	143.1 (140.9 to 145.5)	142.2 (139.8 to 144.6)	146.5 (144.3 to 148.6)
Brazil	Age-standardized	125.4 (124.7 to 126.1)	123.0 (122.4 to 123.5)	131.2 (130.4 to 131.9)	125.7 (125.1 to 126.3)
Paraguay	25-29 years	116.4 (111.2 to 121.7)	114.3 (109.8 to 119.2)	118.7 (112.0 to 125.7)	113.6 (107.2 to 119.4)
Paraguay	30-34 years	122.0 (116.8 to 127.5)	117.3 (112.2 to 122.6)	124.6 (118.1 to 132.1)	116.7 (111.0 to 123.1)
Paraguay	35-39 years	123.2 (117.9 to 128.8)	119.4 (114.7 to 124.9)	125.6 (118.0 to 132.2)	118.7 (113.2 to 124.7)
Paraguay	40-44 years	124.7 (119.4 to 130.2)	123.7 (118.7 to 129.0)	127.1 (120.2 to 134.8)	122.7 (116.5 to 129.0)
Paraguay	45-49 years	127.4 (121.8 to 133.0)	127.6 (122.3 to 133.2)	130.2 (123.3 to 138.2)	126.9 (120.1 to 133.8)
Paraguay	50-54 years	129.5 (124.0 to 135.0)	131.4 (125.7 to 136.7)	131.6 (124.4 to 139.3)	130.8 (124.5 to 137.4)
Paraguay	55-59 years	132.1 (126.6 to 137.6)	134.6 (129.2 to 140.1)	134.0 (126.6 to 141.3)	133.9 (127.3 to 141.2)
Paraguay	60-64 years	134.1 (128.4 to 139.5)	138.0 (132.1 to 143.9)	137.6 (129.9 to 145.4)	137.9 (131.0 to 144.9)
Paraguay	65-69 years	136.2 (130.1 to 142.0)	141.1 (135.4 to 146.8)	139.6 (132.1 to 148.0)	141.9 (135.2 to 149.4)
Paraguay	70-74 years	136.3 (130.6 to 142.0)	142.2 (136.5 to 148.0)	138.7 (131.5 to 146.2)	143.2 (135.8 to 150.5)
Paraguay	75-79 years	138.0 (130.8 to 145.5)	143.8 (136.8 to 150.9)	140.0 (131.8 to 147.8)	145.9 (138.7 to 153.4)
Paraguay	80+ years	137.9 (130.5 to 146.5)	145.0 (137.7 to 152.6)	141.0 (133.1 to 148.9)	146.9 (139.3 to 154.8)
Paraguay	Age-standardized	127.2 (125.5 to 129.0)	127.5 (125.7 to 129.1)	129.7 (127.6 to 132.0)	127.1 (125.3 to 129.0)
Afghanistan	25-29 years	117.5 (111.5 to 123.8)	120.0 (114.7 to 125.5)	118.3 (111.9 to 124.5)	117.4 (112.0 to 123.2)
Afghanistan	30-34 years	122.5 (116.1 to 129.3)	121.5 (116.0 to 127.4)	123.0 (117.1 to 129.5)	119.4 (114.0 to 125.2)
Afghanistan	35-39 years	122.6 (116.0 to 129.2)	123.4 (117.5 to 129.3)	123.4 (116.7 to 130.2)	121.2 (115.6 to 126.8)
Afghanistan	40-44 years	123.4 (116.9 to 130.3)	127.1 (121.3 to 133.0)	123.7 (117.3 to 130.8)	124.5 (118.7 to 130.2)
Afghanistan	45-49 years	126.4 (119.6 to 133.2)	131.0 (124.8 to 137.3)	126.9 (120.4 to 133.7)	128.6 (122.9 to 135.0)
Afghanistan	50-54 years	128.9 (122.2 to 136.1)	134.9 (129.0 to 141.0)	129.5 (122.5 to 136.3)	131.8 (126.1 to 138.2)
Afghanistan	55-59 years	131.8 (124.6 to 138.8)	137.9 (131.4 to 144.4)	132.3 (125.5 to 139.4)	135.2 (129.0 to 141.4)
Afghanistan	60-64 years	133.7 (126.9 to 140.4)	141.3 (134.4 to 147.9)	133.9 (126.9 to 140.9)	138.3 (131.6 to 145.2)
Afghanistan	65-69 years	136.0 (128.9 to 143.5)	144.4 (138.2 to 150.9)	136.3 (129.4 to 143.7)	141.6 (135.1 to 148.5)
Afghanistan	70-74 years	135.9 (128.7 to 142.7)	146.1 (139.4 to 152.7)	136.5 (129.5 to 143.5)	143.2 (136.0 to 149.8)
Afghanistan	75-79 years	137.3 (130.5 to 144.6)	148.1 (141.4 to 155.6)	138.1 (130.6 to 145.5)	144.4 (137.8 to 151.2)
Afghanistan	80+ years	136.8 (129.8 to 144.2)	148.6 (142.3 to 155.5)	137.2 (130.4 to 144.6)	145.4 (139.1 to 152.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Afghanistan	Age-standardized	126.9 (124.8 to 128.9)	131.4 (129.6 to 133.2)	127.4 (125.2 to 129.7)	128.7 (126.9 to 130.4)
Algeria	25-29 years	119.4 (113.2 to 125.9)	119.0 (114.0 to 124.4)	119.9 (113.9 to 126.2)	117.0 (112.0 to 122.5)
Algeria	30-34 years	123.1 (117.4 to 129.3)	119.9 (114.1 to 125.8)	122.8 (116.5 to 129.2)	117.5 (111.8 to 122.9)
Algeria	35-39 years	118.2 (112.5 to 124.0)	117.9 (112.5 to 123.4)	117.5 (111.9 to 123.1)	115.4 (110.2 to 120.8)
Algeria	40-44 years	122.0 (116.2 to 128.3)	123.2 (117.5 to 129.1)	119.2 (113.2 to 125.3)	119.0 (113.6 to 124.4)
Algeria	45-49 years	125.3 (119.3 to 131.4)	126.9 (121.2 to 132.4)	122.1 (116.1 to 128.7)	122.4 (117.0 to 128.0)
Algeria	50-54 years	127.9 (121.8 to 134.1)	130.2 (124.1 to 135.7)	124.4 (118.2 to 130.7)	126.0 (120.3 to 132.1)
Algeria	55-59 years	130.7 (124.0 to 137.3)	133.8 (127.4 to 139.7)	127.1 (121.1 to 133.7)	129.3 (123.5 to 135.0)
Algeria	60-64 years	132.5 (126.2 to 139.1)	136.5 (130.4 to 142.6)	129.0 (122.4 to 135.9)	131.8 (126.1 to 137.6)
Algeria	65-69 years	133.2 (126.6 to 140.2)	137.5 (131.1 to 143.6)	129.1 (122.6 to 136.2)	132.8 (127.1 to 139.1)
Algeria	70-74 years	133.3 (126.6 to 140.4)	138.5 (132.2 to 145.3)	129.0 (123.0 to 135.2)	133.4 (126.9 to 139.4)
Algeria	75-79 years	140.7 (133.7 to 147.3)	145.2 (138.9 to 151.7)	137.3 (130.5 to 144.9)	140.2 (133.7 to 147.3)
Algeria	80+ years	141.5 (134.8 to 148.6)	146.9 (140.5 to 153.6)	140.8 (133.8 to 148.3)	144.3 (137.9 to 151.6)
Algeria	Age-standardized	126.2 (124.1 to 128.2)	127.6 (125.7 to 129.4)	124.1 (122.3 to 125.9)	123.9 (122.3 to 125.6)
Bahrain	25-29 years	119.2 (113.0 to 126.0)	117.6 (112.2 to 123.1)	120.4 (114.2 to 126.6)	115.0 (109.9 to 120.8)
Bahrain	30-34 years	124.2 (117.9 to 130.3)	119.5 (114.1 to 125.5)	125.7 (118.9 to 132.0)	117.1 (112.2 to 122.4)
Bahrain	35-39 years	124.6 (118.2 to 131.6)	121.3 (115.8 to 127.4)	125.6 (119.1 to 132.5)	119.0 (113.6 to 124.8)
Bahrain	40-44 years	125.2 (118.9 to 132.1)	124.9 (118.9 to 131.0)	126.3 (119.9 to 133.1)	122.1 (116.4 to 128.0)
Bahrain	45-49 years	128.3 (121.8 to 134.7)	128.9 (122.9 to 134.8)	129.6 (123.5 to 136.0)	126.1 (120.4 to 132.3)
Bahrain	50-54 years	131.0 (124.0 to 138.0)	132.6 (126.6 to 139.2)	132.2 (125.5 to 139.1)	129.4 (123.7 to 135.3)
Bahrain	55-59 years	133.7 (126.6 to 141.0)	136.0 (129.4 to 142.5)	134.5 (128.2 to 141.5)	132.9 (127.1 to 138.9)
Bahrain	60-64 years	135.6 (128.5 to 142.9)	138.9 (132.9 to 145.7)	136.4 (128.9 to 144.5)	135.6 (129.4 to 141.9)
Bahrain	65-69 years	138.0 (130.9 to 145.0)	141.9 (135.4 to 148.9)	138.6 (131.2 to 145.5)	139.0 (133.0 to 145.4)
Bahrain	70-74 years	137.9 (131.3 to 145.4)	143.7 (137.2 to 150.9)	139.1 (132.4 to 146.6)	140.2 (133.8 to 146.9)
Bahrain	75-79 years	139.3 (132.3 to 146.3)	145.8 (138.6 to 152.9)	140.6 (133.5 to 148.2)	141.8 (135.2 to 148.8)
Bahrain	80+ years	138.4 (131.3 to 146.0)	146.1 (139.1 to 153.2)	139.3 (132.1 to 146.7)	142.6 (136.3 to 149.2)
Bahrain	Age-standardized	128.8 (126.6 to 130.8)	129.1 (127.3 to 131.0)	129.9 (127.7 to 131.9)	126.3 (124.4 to 128.0)
Egypt	25-29 years	118.7 (112.8 to 124.8)	117.9 (112.7 to 123.6)	121.7 (117.8 to 125.6)	120.9 (116.6 to 125.2)
Egypt	30-34 years	124.1 (118.2 to 130.2)	120.4 (114.7 to 126.4)	127.6 (123.5 to 131.9)	123.5 (119.1 to 128.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Egypt	35-39 years	123.1 (117.5 to 128.8)	120.1 (114.8 to 125.5)	128.3 (124.1 to 132.4)	125.0 (120.7 to 129.4)
Egypt	40-44 years	123.4 (117.4 to 129.6)	123.1 (117.5 to 128.8)	128.5 (124.5 to 132.5)	128.0 (123.5 to 133.0)
Egypt	45-49 years	125.9 (120.0 to 132.1)	126.5 (120.9 to 132.5)	131.2 (127.0 to 135.5)	131.9 (127.1 to 136.7)
Egypt	50-54 years	128.1 (121.7 to 134.9)	130.3 (124.5 to 136.4)	133.7 (129.6 to 138.2)	135.1 (130.5 to 140.0)
Egypt	55-59 years	131.1 (124.9 to 137.4)	133.5 (127.8 to 139.4)	136.1 (132.1 to 140.4)	138.5 (133.4 to 143.3)
Egypt	60-64 years	132.9 (126.3 to 140.3)	136.6 (130.5 to 143.1)	138.3 (134.1 to 142.9)	141.6 (136.3 to 146.8)
Egypt	65-69 years	133.9 (127.0 to 141.0)	138.3 (131.9 to 144.6)	140.4 (136.1 to 144.9)	145.3 (140.3 to 150.4)
Egypt	70-74 years	133.3 (126.2 to 140.4)	138.6 (132.4 to 145.0)	137.1 (130.2 to 144.0)	140.6 (134.8 to 147.0)
Egypt	75-79 years	133.9 (127.1 to 140.4)	140.2 (133.9 to 146.9)	136.1 (128.7 to 142.8)	139.9 (134.2 to 145.9)
Egypt	80+ years	133.3 (126.7 to 140.5)	139.3 (132.9 to 145.8)	134.8 (128.1 to 142.1)	138.9 (132.3 to 145.6)
Egypt	Age-standardized	126.6 (124.5 to 128.5)	127.3 (125.4 to 129.0)	131.1 (129.7 to 132.5)	131.4 (129.9 to 132.8)
Iran	25-29 years	112.0 (106.4 to 117.8)	109.9 (105.2 to 114.9)	116.5 (112.6 to 120.8)	109.9 (106.4 to 113.6)
Iran	30-34 years	117.6 (112.5 to 122.9)	112.5 (107.6 to 117.3)	121.3 (116.8 to 126.0)	112.6 (108.8 to 116.4)
Iran	35-39 years	118.1 (112.9 to 123.8)	114.9 (110.3 to 119.7)	121.1 (116.8 to 125.4)	114.9 (111.2 to 119.1)
Iran	40-44 years	122.7 (118.1 to 127.2)	123.9 (120.2 to 127.8)	121.2 (116.6 to 125.9)	117.7 (113.9 to 121.7)
Iran	45-49 years	125.1 (120.7 to 129.9)	127.2 (123.1 to 131.3)	123.9 (119.4 to 128.2)	121.5 (117.1 to 125.8)
Iran	50-54 years	127.7 (122.6 to 132.7)	130.6 (126.4 to 134.7)	126.1 (121.4 to 130.9)	124.9 (120.7 to 129.0)
Iran	55-59 years	130.3 (125.1 to 135.7)	133.6 (129.0 to 138.3)	129.4 (124.5 to 134.0)	128.0 (123.7 to 132.1)
Iran	60-64 years	132.9 (127.7 to 137.8)	136.9 (132.5 to 141.2)	131.1 (126.3 to 136.2)	130.9 (126.7 to 135.1)
Iran	65-69 years	135.2 (129.9 to 140.8)	140.1 (135.6 to 144.5)	129.6 (124.3 to 134.7)	130.2 (125.6 to 134.9)
Iran	70-74 years	134.8 (129.3 to 140.4)	140.6 (135.8 to 145.5)	129.2 (124.1 to 134.6)	129.1 (124.4 to 133.7)
Iran	75-79 years	135.7 (129.4 to 141.4)	141.2 (136.1 to 146.7)	130.6 (125.0 to 136.1)	131.6 (126.4 to 136.6)
Iran	80+ years	134.6 (129.1 to 141.2)	141.3 (135.7 to 146.9)	130.0 (124.5 to 135.7)	131.8 (127.0 to 137.0)
Iran	Age-standardized	124.3 (122.7 to 125.9)	125.1 (123.7 to 126.5)	124.2 (122.8 to 125.5)	120.7 (119.5 to 122.0)
Iraq	25-29 years	120.7 (114.8 to 127.1)	125.5 (119.8 to 131.4)	119.7 (114.1 to 125.7)	122.7 (117.1 to 128.1)
Iraq	30-34 years	126.2 (120.4 to 132.7)	128.3 (122.6 to 134.4)	125.3 (119.6 to 131.5)	125.4 (119.9 to 131.0)
Iraq	35-39 years	128.3 (122.1 to 135.0)	129.7 (123.7 to 135.8)	127.8 (122.0 to 134.0)	126.8 (121.1 to 132.4)
Iraq	40-44 years	129.1 (122.7 to 135.7)	133.2 (127.1 to 139.4)	128.8 (123.0 to 134.8)	130.0 (124.2 to 136.0)
Iraq	45-49 years	133.8 (127.5 to 140.2)	137.7 (131.6 to 144.2)	134.6 (128.2 to 141.2)	134.7 (129.0 to 140.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Iraq	50-54 years	136.5 (129.7 to 143.7)	141.5 (135.0 to 148.1)	137.4 (130.9 to 143.9)	138.4 (132.4 to 145.1)
Iraq	55-59 years	140.1 (133.1 to 147.2)	145.5 (139.0 to 151.9)	141.7 (135.2 to 147.8)	142.4 (136.2 to 148.7)
Iraq	60-64 years	142.4 (135.4 to 149.7)	148.8 (142.2 to 155.6)	143.8 (136.8 to 151.1)	145.4 (138.8 to 152.0)
Iraq	65-69 years	146.0 (139.1 to 153.4)	149.3 (142.3 to 156.3)	147.0 (139.7 to 154.6)	147.5 (140.6 to 154.3)
Iraq	70-74 years	146.1 (138.7 to 154.2)	150.5 (143.5 to 157.9)	146.8 (139.3 to 154.8)	148.6 (141.6 to 156.1)
Iraq	75-79 years	147.9 (140.4 to 155.6)	152.5 (145.1 to 159.5)	148.7 (141.2 to 156.9)	150.3 (143.4 to 157.8)
Iraq	80+ years	147.7 (140.5 to 155.7)	153.7 (146.5 to 161.3)	148.5 (140.7 to 156.4)	151.6 (144.3 to 159.1)
Iraq	Age-standardized	133.6 (131.3 to 135.7)	137.6 (135.6 to 139.5)	133.8 (131.8 to 135.7)	134.7 (132.7 to 136.5)
Jordan	25-29 years	117.6 (111.6 to 123.7)	115.7 (110.1 to 120.9)	118.3 (113.4 to 123.6)	114.2 (109.7 to 118.7)
Jordan	30-34 years	123.2 (117.0 to 129.8)	118.2 (113.2 to 123.6)	124.1 (119.2 to 129.3)	116.7 (112.0 to 121.5)
Jordan	35-39 years	123.9 (117.8 to 129.9)	120.1 (114.5 to 125.6)	124.5 (119.5 to 130.3)	118.4 (113.9 to 123.0)
Jordan	40-44 years	124.2 (117.6 to 130.2)	123.3 (117.4 to 129.4)	124.8 (119.4 to 130.2)	121.6 (116.5 to 126.5)
Jordan	45-49 years	126.9 (121.1 to 133.6)	126.7 (120.8 to 132.8)	127.7 (122.6 to 133.0)	125.1 (120.3 to 130.4)
Jordan	50-54 years	129.3 (123.2 to 135.8)	129.9 (123.8 to 136.0)	129.9 (124.1 to 136.0)	128.5 (123.2 to 133.8)
Jordan	55-59 years	131.6 (124.9 to 138.4)	133.0 (126.9 to 139.3)	132.5 (126.6 to 138.7)	131.6 (126.3 to 136.9)
Jordan	60-64 years	133.8 (126.9 to 141.0)	136.1 (129.8 to 142.7)	134.2 (128.4 to 140.0)	134.7 (129.4 to 140.4)
Jordan	65-69 years	136.4 (129.2 to 143.5)	140.4 (134.1 to 146.9)	136.8 (130.5 to 143.3)	138.8 (133.0 to 144.9)
Jordan	70-74 years	136.5 (129.4 to 144.1)	141.9 (135.4 to 148.1)	137.5 (130.2 to 144.8)	140.0 (134.1 to 146.1)
Jordan	75-79 years	138.1 (131.4 to 145.5)	143.5 (136.9 to 150.0)	138.9 (131.6 to 146.2)	141.5 (135.4 to 147.8)
Jordan	80+ years	137.6 (130.7 to 144.3)	145.0 (138.3 to 151.9)	138.7 (131.4 to 146.1)	142.8 (136.4 to 149.5)
Jordan	Age-standardized	127.4 (125.4 to 129.3)	127.2 (125.4 to 129.0)	128.1 (126.4 to 129.9)	125.6 (124.1 to 127.2)
Kuwait	25-29 years	117.8 (111.5 to 124.2)	114.3 (109.4 to 119.2)	118.5 (115.8 to 121.2)	114.0 (111.3 to 116.8)
Kuwait	30-34 years	123.4 (117.1 to 129.8)	117.0 (111.4 to 122.5)	124.2 (121.5 to 127.1)	116.6 (113.7 to 119.4)
Kuwait	35-39 years	122.6 (115.9 to 128.9)	119.2 (114.0 to 124.9)	125.1 (122.2 to 128.0)	118.4 (115.5 to 121.0)
Kuwait	40-44 years	122.6 (116.5 to 128.9)	122.2 (116.8 to 127.7)	125.3 (122.5 to 128.1)	121.4 (118.4 to 124.3)
Kuwait	45-49 years	126.9 (120.5 to 133.7)	125.4 (119.7 to 131.0)	127.8 (125.1 to 130.7)	124.7 (121.9 to 127.6)
Kuwait	50-54 years	129.2 (122.7 to 135.9)	128.5 (122.7 to 135.1)	130.3 (127.4 to 133.1)	128.0 (125.2 to 130.9)
Kuwait	55-59 years	132.3 (126.0 to 139.1)	131.5 (125.7 to 136.8)	132.8 (129.9 to 135.6)	130.9 (127.7 to 133.9)
Kuwait	60-64 years	132.3 (125.4 to 138.9)	134.5 (128.7 to 140.5)	134.4 (131.3 to 137.4)	133.9 (130.6 to 137.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Kuwait	65-69 years	133.9 (127.1 to 141.0)	137.9 (131.6 to 144.6)	136.3 (132.9 to 140.0)	136.5 (133.3 to 140.2)
Kuwait	70-74 years	134.2 (127.0 to 141.0)	138.9 (132.3 to 145.9)	136.1 (129.2 to 142.9)	138.0 (131.2 to 144.5)
Kuwait	75-79 years	136.1 (129.0 to 143.4)	140.7 (134.3 to 147.6)	138.0 (131.2 to 145.0)	139.8 (133.2 to 147.4)
Kuwait	80+ years	136.0 (128.7 to 143.2)	142.5 (135.7 to 149.3)	138.0 (130.7 to 146.1)	141.0 (134.2 to 147.9)
Kuwait	Age-standardized	126.7 (124.8 to 128.7)	125.7 (124.0 to 127.3)	128.2 (127.3 to 129.2)	125.0 (124.0 to 126.0)
Lebanon	25-29 years	122.9 (116.5 to 129.5)	114.1 (108.9 to 119.5)	126.3 (122.0 to 130.5)	114.4 (110.5 to 118.0)
Lebanon	30-34 years	128.4 (122.0 to 135.0)	116.6 (111.1 to 122.1)	132.1 (127.2 to 136.4)	116.1 (112.1 to 120.4)
Lebanon	35-39 years	126.5 (120.1 to 133.2)	118.1 (112.6 to 123.8)	129.4 (124.6 to 134.1)	119.6 (115.9 to 123.5)
Lebanon	40-44 years	126.9 (120.8 to 134.1)	120.9 (115.3 to 126.8)	129.8 (125.1 to 134.5)	120.3 (116.1 to 124.4)
Lebanon	45-49 years	132.0 (125.3 to 138.7)	123.8 (118.0 to 129.8)	134.2 (129.4 to 138.9)	122.8 (118.8 to 127.2)
Lebanon	50-54 years	134.5 (127.2 to 141.8)	127.3 (121.5 to 133.2)	137.7 (132.8 to 142.8)	125.8 (121.7 to 130.5)
Lebanon	55-59 years	133.7 (126.7 to 140.6)	132.5 (126.4 to 138.8)	134.9 (129.8 to 140.5)	131.4 (126.6 to 136.1)
Lebanon	60-64 years	135.5 (128.6 to 142.5)	135.5 (129.4 to 142.2)	136.3 (130.8 to 141.8)	134.4 (129.5 to 138.9)
Lebanon	65-69 years	137.2 (129.9 to 144.8)	137.9 (131.7 to 144.7)	138.2 (130.7 to 146.0)	137.0 (130.6 to 143.8)
Lebanon	70-74 years	137.2 (130.0 to 144.5)	139.1 (132.7 to 145.2)	138.4 (131.2 to 145.5)	138.0 (131.8 to 145.0)
Lebanon	75-79 years	139.1 (131.8 to 146.9)	141.0 (135.0 to 147.6)	140.2 (133.3 to 147.8)	139.5 (133.1 to 146.1)
Lebanon	80+ years	139.1 (131.2 to 146.7)	142.2 (135.0 to 148.9)	140.0 (132.8 to 147.5)	141.0 (133.9 to 147.9)
Lebanon	Age-standardized	130.8 (128.6 to 133.0)	125.3 (123.5 to 127.0)	133.2 (131.6 to 134.8)	124.7 (123.3 to 126.0)
Libya	25-29 years	121.2 (115.9 to 127.3)	120.9 (116.0 to 126.4)	128.9 (124.9 to 133.3)	122.3 (118.4 to 126.0)
Libya	30-34 years	126.9 (121.1 to 132.8)	123.5 (118.6 to 128.5)	134.8 (130.6 to 139.5)	125.1 (121.4 to 128.9)
Libya	35-39 years	127.7 (122.0 to 133.4)	125.4 (120.2 to 130.5)	135.5 (130.7 to 140.2)	126.8 (123.1 to 130.8)
Libya	40-44 years	128.2 (121.7 to 134.3)	128.8 (123.6 to 134.2)	135.9 (131.1 to 140.7)	130.0 (126.2 to 134.1)
Libya	45-49 years	130.8 (124.8 to 136.8)	132.4 (127.2 to 137.6)	138.6 (134.0 to 143.2)	133.8 (130.2 to 138.0)
Libya	50-54 years	133.2 (127.2 to 139.6)	135.9 (130.4 to 141.5)	141.6 (136.7 to 146.5)	137.2 (132.8 to 141.4)
Libya	55-59 years	135.8 (129.8 to 142.3)	139.2 (134.1 to 145.1)	144.0 (139.3 to 149.1)	140.5 (136.0 to 145.1)
Libya	60-64 years	137.7 (131.7 to 143.9)	142.3 (136.5 to 148.2)	146.2 (140.7 to 151.5)	143.7 (139.4 to 148.0)
Libya	65-69 years	140.1 (133.1 to 147.7)	145.1 (139.7 to 151.0)	146.2 (138.7 to 154.0)	144.5 (138.2 to 151.4)
Libya	70-74 years	140.0 (133.1 to 147.4)	146.1 (140.5 to 152.4)	146.6 (139.1 to 154.2)	144.3 (138.0 to 151.0)
Libya	75-79 years	141.6 (134.7 to 149.0)	147.7 (141.0 to 155.2)	148.6 (141.0 to 156.7)	145.6 (138.7 to 152.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Libya	80+ years	141.6 (134.7 to 149.7)	148.4 (141.4 to 155.6)	148.1 (139.8 to 156.3)	146.8 (140.2 to 153.5)
Libya	Age-standardized	131.2 (129.3 to 133.1)	132.6 (130.9 to 134.4)	138.9 (137.3 to 140.5)	133.5 (132.1 to 134.8)
Morocco	25-29 years	123.0 (117.6 to 128.6)	125.7 (120.7 to 130.6)	123.4 (117.3 to 129.9)	123.9 (118.4 to 129.7)
Morocco	30-34 years	128.9 (122.8 to 135.0)	128.4 (123.4 to 133.8)	129.0 (122.6 to 135.5)	126.9 (121.1 to 132.7)
Morocco	35-39 years	129.5 (123.6 to 135.4)	130.2 (125.1 to 135.6)	129.7 (123.8 to 136.3)	128.6 (123.0 to 135.0)
Morocco	40-44 years	129.7 (123.8 to 135.4)	133.5 (128.3 to 139.2)	130.0 (123.5 to 136.8)	131.9 (125.7 to 137.8)
Morocco	45-49 years	132.6 (126.4 to 139.3)	137.3 (131.9 to 142.9)	133.0 (126.6 to 139.6)	135.7 (129.3 to 142.1)
Morocco	50-54 years	135.0 (129.2 to 141.3)	140.9 (134.9 to 147.1)	135.3 (128.4 to 142.9)	139.1 (132.8 to 145.4)
Morocco	55-59 years	137.5 (131.1 to 143.8)	144.2 (138.5 to 150.3)	138.1 (131.4 to 145.2)	142.7 (136.3 to 149.6)
Morocco	60-64 years	139.5 (133.2 to 146.0)	147.5 (141.5 to 153.7)	139.7 (132.7 to 146.7)	145.9 (139.0 to 152.5)
Morocco	65-69 years	141.7 (135.4 to 148.6)	150.5 (143.9 to 156.6)	142.2 (134.9 to 149.4)	148.9 (142.2 to 155.8)
Morocco	70-74 years	141.4 (134.2 to 148.1)	151.2 (144.7 to 157.3)	142.1 (135.0 to 149.5)	149.8 (142.9 to 157.2)
Morocco	75-79 years	142.6 (135.9 to 149.5)	152.5 (145.9 to 159.1)	143.4 (136.2 to 151.0)	150.9 (144.0 to 158.2)
Morocco	80+ years	142.5 (135.0 to 150.2)	153.0 (146.8 to 159.7)	143.0 (135.8 to 150.8)	151.5 (144.6 to 159.4)
Morocco	Age-standardized	132.9 (131.0 to 134.8)	137.5 (135.9 to 139.2)	133.3 (131.4 to 135.4)	135.9 (134.0 to 137.9)
Palestine	25-29 years	115.3 (110.0 to 120.9)	112.9 (107.8 to 118.3)	115.2 (111.7 to 118.7)	111.6 (108.5 to 114.7)
Palestine	30-34 years	121.3 (116.1 to 126.3)	115.7 (111.5 to 120.7)	120.8 (117.1 to 124.7)	114.0 (110.9 to 117.1)
Palestine	35-39 years	122.2 (117.3 to 127.5)	117.3 (112.6 to 121.8)	121.4 (117.8 to 125.4)	115.7 (112.5 to 119.0)
Palestine	40-44 years	122.3 (117.3 to 127.2)	120.3 (115.6 to 125.1)	121.7 (118.1 to 125.4)	118.6 (115.2 to 122.1)
Palestine	45-49 years	124.9 (120.1 to 129.9)	123.7 (119.2 to 128.6)	124.2 (120.2 to 127.8)	121.7 (118.2 to 124.9)
Palestine	50-54 years	127.2 (122.0 to 132.4)	127.0 (122.3 to 132.0)	126.5 (122.0 to 130.3)	124.8 (121.5 to 127.9)
Palestine	55-59 years	129.6 (124.5 to 134.7)	129.9 (125.3 to 134.9)	128.8 (124.9 to 132.6)	127.8 (124.5 to 131.2)
Palestine	60-64 years	131.4 (126.1 to 137.1)	132.9 (128.0 to 138.0)	130.8 (126.9 to 134.8)	130.7 (127.2 to 134.4)
Palestine	65-69 years	132.7 (125.6 to 139.9)	135.8 (131.1 to 141.0)	135.6 (128.4 to 142.7)	133.4 (127.4 to 139.7)
Palestine	70-74 years	133.6 (126.9 to 140.9)	136.7 (130.4 to 143.1)	137.4 (130.6 to 144.7)	133.6 (127.6 to 140.1)
Palestine	75-79 years	136.4 (129.5 to 144.0)	138.0 (131.8 to 144.5)	138.8 (131.7 to 146.1)	134.4 (128.4 to 140.0)
Palestine	80+ years	136.8 (129.7 to 144.3)	137.0 (130.4 to 143.7)	138.0 (131.5 to 145.0)	134.8 (128.6 to 141.2)
Palestine	Age-standardized	125.3 (123.7 to 127.0)	123.9 (122.4 to 125.4)	125.3 (124.0 to 126.6)	121.9 (120.8 to 123.1)
Oman	25-29 years	118.5 (113.3 to 124.1)	117.7 (112.7 to 122.9)	126.8 (121.8 to 131.7)	120.2 (116.1 to 124.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Oman	30-34 years	124.0 (118.6 to 130.1)	120.1 (115.1 to 125.1)	132.4 (127.3 to 137.7)	122.7 (118.4 to 127.0)
Oman	35-39 years	124.8 (119.4 to 130.5)	122.3 (116.8 to 127.6)	133.3 (128.2 to 138.5)	124.4 (120.1 to 128.8)
Oman	40-44 years	127.4 (121.6 to 133.4)	127.6 (122.1 to 133.1)	133.7 (128.5 to 138.8)	127.7 (123.1 to 132.3)
Oman	45-49 years	130.5 (124.6 to 136.9)	131.2 (126.0 to 136.9)	138.0 (132.6 to 143.6)	132.8 (128.2 to 137.5)
Oman	50-54 years	132.7 (126.5 to 139.1)	134.6 (128.8 to 140.1)	140.7 (134.8 to 146.6)	136.3 (131.5 to 141.1)
Oman	55-59 years	135.5 (128.7 to 141.5)	137.8 (131.8 to 143.8)	143.3 (137.9 to 148.8)	139.4 (134.6 to 144.3)
Oman	60-64 years	136.4 (129.7 to 143.5)	139.2 (133.3 to 145.0)	144.6 (139.0 to 150.4)	140.6 (135.8 to 145.9)
Oman	65-69 years	136.9 (130.6 to 143.5)	141.2 (135.0 to 147.5)	146.2 (140.5 to 152.5)	143.4 (138.5 to 148.7)
Oman	70-74 years	136.7 (130.1 to 143.1)	141.7 (136.0 to 148.6)	145.7 (140.1 to 151.7)	143.8 (138.9 to 148.7)
Oman	75-79 years	138.7 (132.7 to 145.5)	143.5 (137.3 to 149.6)	146.9 (140.8 to 152.7)	145.1 (139.8 to 150.4)
Oman	80+ years	137.7 (131.2 to 144.7)	144.0 (137.8 to 150.2)	141.8 (135.4 to 148.8)	145.3 (140.0 to 150.7)
Oman	Age-standardized	129.3 (127.6 to 131.0)	129.9 (128.2 to 131.6)	137.2 (135.6 to 138.9)	131.7 (130.3 to 133.2)
Qatar	25-29 years	116.2 (110.0 to 122.2)	108.5 (103.6 to 113.7)	116.4 (113.6 to 119.3)	106.7 (104.3 to 109.0)
Qatar	30-34 years	121.7 (115.6 to 128.1)	110.9 (106.2 to 116.0)	121.9 (119.0 to 125.0)	109.1 (106.9 to 111.6)
Qatar	35-39 years	122.6 (116.7 to 128.7)	112.5 (107.1 to 118.0)	122.6 (119.7 to 125.7)	110.6 (108.2 to 113.2)
Qatar	40-44 years	123.7 (116.9 to 130.5)	115.8 (110.2 to 121.5)	123.1 (120.2 to 126.1)	113.5 (111.1 to 115.9)
Qatar	45-49 years	132.4 (125.6 to 139.7)	123.5 (118.0 to 129.3)	133.7 (130.1 to 137.3)	122.4 (119.3 to 125.5)
Qatar	50-54 years	135.6 (128.7 to 142.4)	127.1 (121.0 to 133.2)	136.3 (132.7 to 140.1)	125.8 (122.6 to 128.7)
Qatar	55-59 years	138.0 (130.5 to 145.6)	130.1 (124.2 to 137.0)	138.9 (135.3 to 142.6)	128.8 (125.4 to 131.9)
Qatar	60-64 years	140.0 (132.9 to 147.8)	133.3 (127.0 to 139.7)	140.9 (137.2 to 144.8)	131.7 (128.6 to 134.8)
Qatar	65-69 years	141.7 (134.2 to 149.2)	135.6 (129.3 to 142.0)	142.5 (135.4 to 149.9)	134.4 (128.1 to 141.2)
Qatar	70-74 years	141.9 (135.2 to 149.0)	136.6 (130.1 to 143.1)	142.7 (135.5 to 150.8)	135.6 (129.1 to 142.1)
Qatar	75-79 years	143.8 (136.4 to 150.8)	138.3 (131.5 to 144.9)	144.7 (137.5 to 152.3)	137.2 (130.8 to 143.3)
Qatar	80+ years	143.6 (136.3 to 151.1)	139.6 (133.4 to 146.2)	144.5 (137.0 to 152.1)	138.7 (132.2 to 145.4)
Qatar	Age-standardized	129.9 (128.0 to 131.9)	121.7 (119.9 to 123.4)	130.3 (129.2 to 131.6)	120.2 (119.2 to 121.2)
Saudi Arabia	25-29 years	115.5 (113.0 to 117.9)	111.2 (109.1 to 113.5)	116.6 (114.2 to 119.0)	110.1 (108.1 to 112.1)
Saudi Arabia	30-34 years	120.4 (117.7 to 123.1)	113.4 (111.1 to 115.6)	120.7 (119.4 to 122.1)	111.6 (110.3 to 112.8)
Saudi Arabia	35-39 years	122.3 (119.7 to 125.1)	116.0 (113.7 to 118.2)	122.8 (121.2 to 124.3)	114.2 (113.0 to 115.4)
Saudi Arabia	40-44 years	123.9 (121.2 to 126.8)	120.2 (117.9 to 122.5)	124.8 (123.1 to 126.3)	118.4 (116.9 to 119.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Saudi Arabia	45-49 years	126.8 (124.1 to 129.6)	124.4 (121.9 to 126.7)	127.4 (125.7 to 129.3)	122.7 (121.1 to 124.2)
Saudi Arabia	50-54 years	130.7 (127.9 to 133.5)	127.7 (125.3 to 130.1)	131.8 (129.8 to 133.7)	125.8 (124.0 to 127.7)
Saudi Arabia	55-59 years	134.6 (131.8 to 137.5)	131.3 (128.7 to 133.6)	135.9 (134.0 to 137.8)	130.0 (128.1 to 132.0)
Saudi Arabia	60-64 years	135.1 (132.1 to 138.0)	132.6 (130.4 to 135.0)	135.4 (133.0 to 137.9)	130.4 (128.4 to 132.3)
Saudi Arabia	65-69 years	140.0 (137.2 to 142.8)	139.9 (137.7 to 142.3)	141.9 (139.7 to 144.2)	139.2 (137.0 to 141.1)
Saudi Arabia	70-74 years	139.6 (136.9 to 142.5)	138.0 (135.6 to 140.6)	140.6 (138.5 to 143.0)	136.8 (134.5 to 139.2)
Saudi Arabia	75-79 years	143.9 (141.0 to 146.8)	133.6 (131.2 to 136.1)	145.1 (142.4 to 147.8)	131.7 (129.3 to 134.3)
Saudi Arabia	80+ years	143.2 (140.4 to 145.9)	140.5 (138.1 to 142.9)	144.4 (141.6 to 147.0)	139.2 (136.9 to 141.5)
Saudi Arabia	Age-standardized	127.8 (127.0 to 128.6)	123.7 (122.9 to 124.4)	128.6 (128.0 to 129.2)	122.1 (121.6 to 122.7)
Sudan	25-29 years	121.0 (115.2 to 127.0)	122.4 (116.8 to 128.0)	122.2 (117.3 to 126.7)	120.8 (116.6 to 124.8)
Sudan	30-34 years	126.5 (120.0 to 133.1)	124.9 (118.7 to 131.0)	127.7 (122.9 to 132.4)	123.3 (119.0 to 127.7)
Sudan	35-39 years	127.1 (120.9 to 133.5)	126.8 (120.6 to 133.0)	128.4 (123.4 to 133.2)	124.9 (120.2 to 129.7)
Sudan	40-44 years	127.9 (121.2 to 134.6)	130.1 (124.6 to 136.0)	128.7 (123.5 to 134.1)	128.1 (123.4 to 133.0)
Sudan	45-49 years	130.4 (123.9 to 137.3)	133.8 (127.9 to 140.0)	131.5 (126.3 to 136.8)	131.8 (127.0 to 137.0)
Sudan	50-54 years	132.9 (126.1 to 139.7)	137.4 (131.1 to 143.8)	133.4 (127.2 to 139.1)	134.9 (129.8 to 140.3)
Sudan	55-59 years	135.4 (128.4 to 142.4)	140.7 (134.2 to 147.9)	136.1 (130.3 to 142.4)	138.1 (133.0 to 143.6)
Sudan	60-64 years	137.3 (130.5 to 144.8)	144.0 (137.2 to 151.2)	137.8 (131.2 to 144.2)	140.9 (134.9 to 146.7)
Sudan	65-69 years	139.2 (132.4 to 146.3)	146.0 (139.1 to 152.5)	139.9 (132.8 to 146.8)	143.9 (137.4 to 150.4)
Sudan	70-74 years	139.3 (132.2 to 147.0)	147.1 (140.3 to 154.3)	139.8 (132.8 to 146.7)	144.8 (138.8 to 151.3)
Sudan	75-79 years	140.4 (132.8 to 147.5)	148.1 (141.2 to 155.3)	141.3 (134.0 to 148.4)	146.1 (139.5 to 153.2)
Sudan	80+ years	140.1 (132.8 to 147.8)	148.7 (141.9 to 155.3)	140.4 (133.8 to 147.8)	146.6 (140.2 to 153.6)
Sudan	Age-standardized	130.7 (128.7 to 132.7)	133.9 (132.0 to 135.7)	131.6 (129.9 to 133.4)	131.8 (130.2 to 133.3)
Syria	25-29 years	118.7 (112.4 to 125.1)	118.8 (113.1 to 124.7)	120.0 (113.3 to 126.4)	116.0 (110.4 to 121.6)
Syria	30-34 years	123.8 (117.3 to 130.3)	120.7 (115.4 to 126.6)	124.8 (118.5 to 131.2)	118.3 (112.9 to 123.9)
Syria	35-39 years	124.1 (117.8 to 130.9)	122.5 (116.8 to 128.8)	125.2 (118.3 to 131.9)	120.2 (114.4 to 126.1)
Syria	40-44 years	125.1 (118.9 to 131.3)	126.4 (120.5 to 132.4)	125.7 (119.4 to 132.4)	123.4 (117.9 to 129.2)
Syria	45-49 years	127.9 (121.0 to 134.8)	130.1 (123.6 to 136.4)	129.0 (122.5 to 135.5)	127.4 (121.0 to 133.3)
Syria	50-54 years	130.5 (124.0 to 137.7)	134.1 (127.7 to 140.5)	131.6 (124.8 to 138.9)	130.9 (125.0 to 137.1)
Syria	55-59 years	133.3 (126.0 to 140.3)	137.5 (130.8 to 144.1)	134.1 (127.0 to 141.6)	134.1 (127.9 to 140.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Syria	60-64 years	135.3 (128.6 to 142.5)	140.4 (133.9 to 146.8)	135.8 (128.6 to 142.9)	136.8 (130.9 to 143.5)
Syria	65-69 years	137.4 (130.0 to 144.3)	143.4 (136.8 to 150.2)	138.0 (130.8 to 145.5)	140.5 (134.1 to 146.8)
Syria	70-74 years	137.5 (130.2 to 144.9)	144.9 (138.2 to 151.5)	138.5 (131.4 to 145.3)	141.5 (134.9 to 148.1)
Syria	75-79 years	138.8 (131.7 to 146.5)	147.2 (140.2 to 154.1)	140.0 (133.0 to 147.5)	143.1 (136.2 to 150.6)
Syria	80+ years	138.0 (130.9 to 144.8)	147.2 (140.6 to 154.5)	138.8 (131.7 to 145.8)	143.9 (137.2 to 150.6)
Syria	Age-standardized	128.3 (126.3 to 130.4)	130.5 (128.7 to 132.6)	129.3 (127.3 to 131.5)	127.5 (125.8 to 129.4)
Tunisia	25-29 years	116.6 (110.7 to 122.9)	116.3 (111.4 to 121.9)	117.7 (111.7 to 123.7)	115.3 (110.1 to 120.9)
Tunisia	30-34 years	121.6 (115.5 to 128.6)	118.9 (113.5 to 124.4)	122.7 (116.6 to 128.7)	117.9 (112.3 to 123.5)
Tunisia	35-39 years	121.8 (116.2 to 127.8)	121.2 (116.2 to 126.8)	122.7 (117.0 to 128.6)	120.2 (115.3 to 125.2)
Tunisia	40-44 years	122.2 (116.7 to 128.1)	124.4 (118.8 to 130.0)	123.2 (118.0 to 129.0)	123.2 (118.3 to 128.6)
Tunisia	45-49 years	124.6 (118.5 to 130.7)	127.8 (122.0 to 133.8)	125.7 (120.0 to 131.5)	126.7 (121.4 to 132.0)
Tunisia	50-54 years	127.0 (121.2 to 133.5)	131.3 (125.5 to 137.2)	128.2 (122.6 to 134.1)	130.1 (124.9 to 135.2)
Tunisia	55-59 years	129.5 (122.9 to 135.7)	134.4 (128.6 to 140.2)	130.5 (124.3 to 136.5)	133.2 (127.4 to 138.8)
Tunisia	60-64 years	131.5 (125.0 to 138.0)	137.4 (131.2 to 143.8)	132.3 (126.3 to 138.9)	136.1 (130.8 to 142.2)
Tunisia	65-69 years	133.4 (127.6 to 139.7)	140.7 (134.6 to 146.5)	134.8 (129.2 to 140.5)	137.3 (132.2 to 142.6)
Tunisia	70-74 years	133.1 (127.0 to 139.9)	141.7 (135.5 to 147.9)	134.7 (129.4 to 140.1)	137.9 (133.0 to 143.0)
Tunisia	75-79 years	135.6 (129.1 to 142.6)	141.7 (135.7 to 148.3)	136.4 (131.0 to 142.2)	138.0 (132.8 to 143.6)
Tunisia	80+ years	135.0 (128.0 to 142.0)	141.6 (135.6 to 148.1)	135.7 (130.1 to 141.8)	138.5 (133.2 to 144.4)
Tunisia	Age-standardized	125.3 (123.4 to 127.3)	127.9 (126.3 to 129.8)	126.4 (124.6 to 128.2)	126.4 (124.8 to 128.2)
Turkey	25-29 years	119.2 (113.7 to 124.9)	121.3 (116.2 to 126.5)	122.9 (117.9 to 128.0)	120.1 (115.4 to 125.0)
Turkey	30-34 years	124.2 (118.5 to 129.6)	122.8 (118.2 to 127.6)	125.1 (120.3 to 130.3)	119.4 (114.9 to 124.1)
Turkey	35-39 years	125.1 (119.5 to 130.8)	124.8 (120.0 to 129.7)	126.1 (121.2 to 131.2)	121.5 (116.9 to 125.7)
Turkey	40-44 years	126.4 (121.3 to 132.0)	129.1 (124.0 to 134.8)	126.8 (122.0 to 131.7)	124.9 (120.5 to 129.5)
Turkey	45-49 years	128.8 (122.9 to 134.2)	133.0 (128.2 to 138.7)	129.6 (124.6 to 135.0)	128.9 (124.2 to 133.9)
Turkey	50-54 years	131.3 (125.6 to 137.3)	136.8 (131.5 to 142.4)	132.1 (127.2 to 137.1)	132.7 (127.9 to 137.8)
Turkey	55-59 years	134.0 (128.5 to 139.7)	140.1 (134.6 to 146.2)	135.1 (129.6 to 140.9)	136.4 (131.4 to 141.2)
Turkey	60-64 years	136.0 (129.7 to 142.4)	143.3 (137.6 to 149.0)	136.6 (131.1 to 142.2)	139.2 (134.0 to 144.5)
Turkey	65-69 years	138.6 (132.3 to 144.6)	146.7 (140.8 to 153.4)	139.1 (133.7 to 144.7)	142.4 (137.5 to 147.6)
Turkey	70-74 years	138.3 (132.5 to 144.7)	147.2 (141.5 to 152.9)	139.1 (133.8 to 144.3)	142.9 (137.6 to 147.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Turkey	75-79 years	138.0 (132.0 to 145.2)	148.4 (142.2 to 154.6)	138.7 (133.1 to 144.2)	144.7 (139.7 to 150.0)
Turkey	80+ years	137.9 (132.0 to 143.8)	148.2 (142.3 to 154.3)	138.6 (132.9 to 144.4)	144.7 (139.4 to 149.9)
Turkey	Age-standardized	129.1 (127.3 to 130.8)	132.9 (131.3 to 134.5)	130.2 (128.6 to 131.9)	129.4 (127.9 to 130.9)
United Arab Emirates	25-29 years	121.9 (117.6 to 126.3)	117.0 (113.5 to 120.5)	118.0 (114.0 to 122.4)	113.1 (109.7 to 116.7)
United Arab Emirates	30-34 years	127.7 (123.3 to 132.0)	119.5 (115.9 to 122.9)	123.7 (119.6 to 128.0)	115.6 (112.2 to 119.1)
United Arab Emirates	35-39 years	128.6 (123.8 to 133.5)	121.2 (117.5 to 125.4)	124.4 (120.3 to 128.1)	117.3 (113.8 to 120.6)
United Arab Emirates	40-44 years	131.6 (127.7 to 135.5)	128.1 (124.6 to 131.5)	124.5 (120.3 to 128.7)	120.3 (116.9 to 124.1)
United Arab Emirates	45-49 years	133.9 (129.3 to 138.3)	131.1 (127.0 to 135.3)	127.2 (123.0 to 131.5)	123.9 (120.3 to 127.8)
United Arab Emirates	50-54 years	135.9 (130.6 to 141.3)	134.1 (129.2 to 138.5)	129.7 (125.4 to 134.2)	127.1 (123.5 to 130.9)
United Arab Emirates	55-59 years	137.9 (131.8 to 144.3)	138.9 (133.7 to 144.7)	131.9 (127.4 to 136.5)	129.7 (125.7 to 133.9)
United Arab Emirates	60-64 years	142.0 (137.4 to 146.7)	140.2 (135.6 to 144.7)	133.7 (129.2 to 138.4)	132.7 (128.5 to 136.9)
United Arab Emirates	65-69 years	144.0 (139.0 to 149.3)	143.3 (138.9 to 148.3)	135.9 (131.4 to 140.7)	135.8 (131.9 to 140.2)
United Arab Emirates	70-74 years	142.7 (137.2 to 148.7)	143.8 (138.8 to 148.9)	135.8 (131.5 to 140.6)	136.3 (132.1 to 140.6)
United Arab Emirates	75-79 years	144.3 (138.3 to 150.1)	145.0 (139.7 to 150.9)	136.9 (132.2 to 142.1)	137.2 (133.2 to 141.8)
United Arab Emirates	80+ years	143.1 (136.3 to 150.0)	145.5 (139.1 to 152.0)	139.3 (131.9 to 146.7)	140.4 (133.7 to 147.4)
United Arab Emirates	Age-standardized	133.4 (131.8 to 134.9)	130.1 (128.8 to 131.5)	127.7 (126.4 to 129.0)	124.0 (122.8 to 125.1)
Yemen	25-29 years	113.8 (108.0 to 119.7)	115.6 (110.1 to 120.8)	114.7 (110.1 to 119.3)	114.1 (110.1 to 118.5)
Yemen	30-34 years	119.2 (113.5 to 125.5)	118.1 (113.0 to 123.2)	120.2 (115.3 to 125.2)	116.8 (112.3 to 121.0)
Yemen	35-39 years	119.5 (113.5 to 126.0)	119.9 (114.3 to 125.3)	120.9 (116.3 to 126.0)	118.4 (114.2 to 122.7)
Yemen	40-44 years	119.9 (113.8 to 125.9)	122.8 (117.4 to 128.4)	121.2 (116.3 to 126.1)	121.4 (117.2 to 126.1)
Yemen	45-49 years	122.5 (116.8 to 129.0)	126.5 (120.8 to 132.8)	123.6 (118.9 to 129.0)	124.9 (120.5 to 129.8)
Yemen	50-54 years	124.8 (118.3 to 131.1)	129.8 (123.9 to 135.8)	126.0 (120.7 to 130.9)	128.3 (123.6 to 132.9)
Yemen	55-59 years	127.1 (121.2 to 134.2)	132.7 (126.6 to 139.0)	128.4 (123.1 to 134.0)	131.3 (126.7 to 135.9)
Yemen	60-64 years	129.2 (122.8 to 135.7)	136.0 (130.0 to 142.5)	130.2 (124.7 to 135.3)	134.0 (129.1 to 138.8)
Yemen	65-69 years	131.1 (124.0 to 138.2)	138.7 (132.8 to 145.3)	132.3 (126.9 to 137.8)	137.1 (132.3 to 142.3)
Yemen	70-74 years	131.5 (124.5 to 138.3)	140.0 (133.0 to 147.2)	133.1 (126.5 to 140.3)	138.6 (131.6 to 145.4)
Yemen	75-79 years	133.2 (126.0 to 140.7)	142.0 (135.0 to 148.9)	134.7 (127.8 to 142.0)	140.3 (133.5 to 146.6)
Yemen	80+ years	133.3 (127.0 to 140.3)	143.1 (136.5 to 149.9)	134.7 (128.3 to 141.5)	141.6 (134.7 to 148.6)
Yemen	Age-standardized	123.0 (121.0 to 125.0)	126.8 (125.0 to 128.5)	124.2 (122.7 to 125.7)	125.3 (123.8 to 126.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Bangladesh	25-29 years	113.2 (109.4 to 117.3)	111.2 (107.3 to 115.4)	112.9 (109.0 to 116.6)	110.3 (106.5 to 114.0)
Bangladesh	30-34 years	118.8 (114.7 to 122.8)	114.1 (109.6 to 118.5)	124.1 (120.5 to 127.5)	116.4 (113.1 to 119.9)
Bangladesh	35-39 years	119.1 (114.6 to 123.3)	115.3 (111.1 to 119.2)	119.6 (116.6 to 122.6)	115.6 (112.5 to 118.6)
Bangladesh	40-44 years	119.3 (115.0 to 123.6)	118.5 (114.4 to 122.5)	120.2 (117.3 to 123.1)	118.8 (115.6 to 121.9)
Bangladesh	45-49 years	121.9 (117.6 to 126.6)	121.4 (116.7 to 125.7)	122.4 (119.4 to 125.6)	122.2 (119.0 to 125.7)
Bangladesh	50-54 years	124.3 (120.0 to 128.6)	124.8 (120.1 to 129.2)	124.6 (121.5 to 128.0)	124.8 (121.8 to 128.2)
Bangladesh	55-59 years	126.6 (122.4 to 130.8)	127.3 (122.8 to 132.0)	126.7 (123.6 to 130.1)	128.0 (124.6 to 131.6)
Bangladesh	60-64 years	128.5 (123.9 to 133.1)	130.6 (126.1 to 135.5)	128.6 (125.2 to 131.7)	131.4 (127.9 to 134.9)
Bangladesh	65-69 years	130.7 (125.9 to 135.6)	133.0 (128.2 to 137.9)	130.5 (127.3 to 133.9)	134.6 (131.1 to 138.4)
Bangladesh	70-74 years	130.2 (125.6 to 135.0)	133.5 (128.8 to 138.1)	131.1 (127.6 to 134.3)	134.5 (131.2 to 138.0)
Bangladesh	75-79 years	130.8 (126.4 to 135.8)	134.2 (129.3 to 138.8)	132.1 (128.8 to 135.6)	136.6 (132.7 to 140.5)
Bangladesh	80+ years	130.0 (125.1 to 135.1)	134.5 (129.6 to 139.4)	131.8 (128.3 to 135.3)	138.1 (134.5 to 141.7)
Bangladesh	Age-standardized	122.3 (121.0 to 123.7)	121.7 (120.4 to 123.1)	123.3 (122.3 to 124.3)	122.5 (121.4 to 123.5)
Bhutan	25-29 years	117.7 (112.6 to 122.4)	114.4 (109.7 to 118.9)	118.4 (117.3 to 119.6)	112.1 (111.1 to 113.1)
Bhutan	30-34 years	123.3 (118.3 to 128.4)	116.9 (112.4 to 121.8)	124.1 (122.9 to 125.3)	114.8 (113.8 to 115.7)
Bhutan	35-39 years	122.6 (117.7 to 127.5)	117.5 (112.7 to 122.6)	125.0 (123.8 to 126.1)	116.4 (115.4 to 117.4)
Bhutan	40-44 years	123.1 (118.4 to 128.0)	120.5 (115.7 to 125.5)	125.2 (124.0 to 126.3)	119.3 (118.3 to 120.3)
Bhutan	45-49 years	128.6 (123.3 to 133.8)	124.5 (119.4 to 129.6)	127.7 (126.5 to 128.9)	122.6 (121.6 to 123.7)
Bhutan	50-54 years	131.1 (125.9 to 136.7)	128.0 (122.9 to 133.8)	130.1 (128.9 to 131.3)	125.8 (124.8 to 126.8)
Bhutan	55-59 years	131.8 (126.0 to 137.3)	129.7 (124.3 to 135.1)	132.5 (131.3 to 133.7)	128.8 (127.8 to 129.9)
Bhutan	60-64 years	133.3 (128.0 to 138.7)	133.2 (127.9 to 138.8)	134.4 (133.2 to 135.6)	131.7 (130.6 to 132.9)
Bhutan	65-69 years	136.6 (131.3 to 142.3)	139.9 (134.2 to 145.9)	136.6 (135.4 to 137.8)	134.7 (133.6 to 135.8)
Bhutan	70-74 years	136.6 (131.1 to 142.2)	141.5 (135.6 to 147.7)	137.0 (131.8 to 142.5)	138.5 (133.0 to 143.9)
Bhutan	75-79 years	137.5 (131.6 to 143.4)	143.1 (137.2 to 149.4)	137.8 (132.4 to 143.7)	139.8 (133.9 to 145.9)
Bhutan	80+ years	137.5 (131.9 to 143.5)	144.2 (138.2 to 149.8)	137.9 (132.5 to 143.7)	141.1 (135.7 to 147.0)
Bhutan	Age-standardized	127.5 (125.9 to 129.1)	125.3 (123.8 to 127.0)	128.2 (127.7 to 128.7)	123.3 (122.8 to 123.8)
India	25-29 years	118.5 (117.2 to 119.7)	113.4 (112.2 to 114.6)	117.1 (115.8 to 118.3)	114.4 (113.3 to 115.6)
India	30-34 years	122.8 (121.6 to 124.2)	115.8 (114.6 to 117.0)	122.2 (121.2 to 123.3)	116.9 (115.8 to 118.0)
India	35-39 years	123.6 (122.2 to 124.9)	117.1 (115.9 to 118.4)	123.3 (122.3 to 124.5)	119.1 (118.0 to 120.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
India	40-44 years	123.5 (122.1 to 124.7)	120.8 (119.6 to 122.1)	123.3 (122.2 to 124.4)	122.1 (121.0 to 123.1)
India	45-49 years	125.4 (124.0 to 126.8)	122.7 (121.3 to 124.0)	126.4 (125.4 to 127.5)	125.7 (124.7 to 126.8)
India	50-54 years	127.9 (126.6 to 129.3)	125.8 (124.4 to 127.1)	127.9 (126.8 to 129.0)	128.5 (127.5 to 129.5)
India	55-59 years	130.2 (128.8 to 131.6)	128.9 (127.5 to 130.2)	130.5 (129.4 to 131.6)	131.7 (130.6 to 132.9)
India	60-64 years	132.0 (130.5 to 133.4)	131.8 (130.5 to 133.3)	132.3 (131.1 to 133.6)	134.6 (133.5 to 135.8)
India	65-69 years	133.2 (131.9 to 134.5)	137.2 (135.8 to 138.6)	135.2 (134.0 to 136.5)	137.7 (136.3 to 138.9)
India	70-74 years	130.2 (128.9 to 131.6)	138.0 (136.6 to 139.4)	136.0 (134.8 to 137.2)	139.6 (138.3 to 140.9)
India	75-79 years	129.1 (127.7 to 130.4)	136.2 (134.9 to 137.6)	137.6 (136.3 to 138.8)	141.6 (140.3 to 142.9)
India	80+ years	130.2 (128.7 to 131.8)	137.0 (135.4 to 138.5)	137.7 (136.4 to 138.9)	142.6 (141.3 to 143.9)
India	Age-standardized	125.8 (125.4 to 126.2)	123.7 (123.3 to 124.1)	126.6 (126.3 to 126.9)	125.8 (125.4 to 126.1)
Nepal	25-29 years	121.4 (116.5 to 126.6)	117.7 (112.7 to 122.6)	123.8 (120.2 to 128.0)	117.0 (114.0 to 120.0)
Nepal	30-34 years	127.1 (122.2 to 132.2)	120.2 (115.4 to 125.3)	129.1 (125.3 to 132.9)	120.9 (117.4 to 124.4)
Nepal	35-39 years	127.8 (122.9 to 133.4)	120.6 (115.5 to 125.4)	129.8 (126.0 to 133.8)	122.0 (118.5 to 125.7)
Nepal	40-44 years	128.3 (123.2 to 133.6)	123.6 (118.3 to 128.6)	130.0 (125.9 to 134.1)	125.1 (121.8 to 128.9)
Nepal	45-49 years	131.9 (126.8 to 137.4)	129.3 (123.9 to 135.2)	134.6 (130.4 to 138.7)	129.5 (125.7 to 133.6)
Nepal	50-54 years	134.2 (129.1 to 139.5)	132.1 (126.8 to 137.5)	137.2 (133.5 to 141.3)	132.8 (129.1 to 136.8)
Nepal	55-59 years	134.3 (128.7 to 139.4)	129.6 (124.1 to 134.9)	138.0 (133.9 to 142.5)	134.3 (130.4 to 138.2)
Nepal	60-64 years	135.8 (130.6 to 141.3)	131.9 (126.8 to 137.4)	139.9 (135.7 to 144.3)	137.3 (133.3 to 141.2)
Nepal	65-69 years	135.2 (129.7 to 140.8)	135.6 (129.7 to 141.4)	142.5 (138.3 to 147.1)	141.2 (137.1 to 145.2)
Nepal	70-74 years	136.1 (130.5 to 141.4)	137.0 (131.5 to 142.7)	142.6 (136.8 to 148.4)	140.7 (134.6 to 146.9)
Nepal	75-79 years	138.1 (132.7 to 143.5)	138.4 (132.6 to 144.3)	144.3 (138.4 to 150.3)	142.8 (137.1 to 148.2)
Nepal	80+ years	137.9 (132.4 to 143.7)	139.7 (134.1 to 145.6)	144.6 (138.9 to 150.6)	144.0 (138.2 to 150.2)
Nepal	Age-standardized	130.5 (128.9 to 132.2)	126.8 (125.3 to 128.4)	133.8 (132.6 to 135.2)	128.8 (127.7 to 130.0)
Pakistan	25-29 years	115.0 (110.2 to 119.6)	114.7 (110.8 to 119.0)	116.3 (112.9 to 119.9)	109.4 (106.0 to 113.0)
Pakistan	30-34 years	120.0 (115.8 to 124.1)	117.0 (113.0 to 121.1)	120.0 (116.6 to 123.6)	112.2 (108.6 to 115.8)
Pakistan	35-39 years	120.5 (116.3 to 124.7)	118.8 (114.7 to 123.3)	121.4 (117.5 to 125.2)	115.0 (111.2 to 118.8)
Pakistan	40-44 years	121.0 (116.6 to 125.4)	124.5 (119.7 to 129.3)	121.8 (118.4 to 125.6)	119.3 (115.3 to 123.3)
Pakistan	45-49 years	123.7 (119.1 to 128.3)	128.5 (123.7 to 133.5)	124.9 (121.0 to 128.6)	124.4 (120.4 to 128.7)
Pakistan	50-54 years	127.1 (122.7 to 131.8)	132.2 (126.8 to 137.5)	127.3 (123.2 to 131.3)	127.2 (123.0 to 131.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Pakistan	55-59 years	129.6 (124.7 to 134.4)	135.6 (130.7 to 141.0)	131.1 (127.3 to 135.2)	132.4 (128.1 to 136.6)
Pakistan	60-64 years	131.8 (127.1 to 136.9)	140.1 (134.6 to 145.7)	134.5 (130.2 to 139.0)	136.4 (131.8 to 141.0)
Pakistan	65-69 years	133.9 (129.3 to 138.7)	142.6 (137.2 to 148.1)	137.3 (133.1 to 141.7)	137.7 (133.4 to 142.7)
Pakistan	70-74 years	133.5 (128.6 to 138.5)	143.3 (138.0 to 148.9)	138.5 (133.5 to 143.3)	137.9 (132.6 to 143.2)
Pakistan	75-79 years	134.5 (129.8 to 139.6)	145.1 (139.6 to 150.7)	143.7 (138.1 to 149.4)	145.6 (140.1 to 151.5)
Pakistan	80+ years	133.7 (128.9 to 138.9)	145.3 (139.8 to 150.9)	139.0 (134.0 to 144.1)	146.1 (139.7 to 152.3)
Pakistan	Age-standardized	124.6 (123.1 to 125.9)	128.1 (126.6 to 129.6)	126.3 (125.1 to 127.5)	123.9 (122.6 to 125.1)
Angola	25-29 years	123.1 (115.9 to 130.7)	118.7 (112.2 to 125.7)	124.7 (117.5 to 132.7)	118.5 (111.9 to 125.7)
Angola	30-34 years	128.3 (120.4 to 136.1)	121.1 (114.7 to 128.0)	130.3 (122.6 to 138.9)	121.1 (114.8 to 128.0)
Angola	35-39 years	128.9 (121.8 to 137.2)	123.2 (116.7 to 130.3)	130.6 (121.8 to 138.9)	122.7 (115.8 to 129.9)
Angola	40-44 years	128.7 (120.6 to 136.5)	125.8 (118.8 to 132.8)	130.8 (123.1 to 138.9)	125.9 (118.2 to 133.2)
Angola	45-49 years	130.8 (123.0 to 139.2)	129.0 (121.6 to 136.6)	133.5 (125.3 to 141.6)	130.0 (123.0 to 137.3)
Angola	50-54 years	132.7 (124.7 to 141.3)	132.1 (125.2 to 139.5)	135.6 (127.2 to 144.1)	133.5 (125.9 to 141.4)
Angola	55-59 years	136.1 (128.1 to 145.3)	135.5 (128.0 to 143.3)	138.4 (130.0 to 147.4)	136.9 (129.1 to 145.2)
Angola	60-64 years	137.8 (129.5 to 146.8)	138.0 (130.5 to 146.4)	140.6 (132.2 to 149.4)	139.8 (132.0 to 148.4)
Angola	65-69 years	137.7 (129.0 to 146.5)	140.6 (132.5 to 148.5)	140.2 (131.8 to 149.4)	142.4 (134.5 to 151.3)
Angola	70-74 years	137.4 (129.5 to 146.3)	139.2 (131.4 to 147.1)	139.7 (131.7 to 148.1)	140.1 (132.7 to 148.8)
Angola	75-79 years	140.1 (132.3 to 149.3)	140.8 (132.6 to 149.6)	141.0 (132.0 to 149.5)	140.5 (132.6 to 147.9)
Angola	80+ years	140.7 (132.2 to 149.4)	142.7 (134.6 to 151.3)	140.9 (131.9 to 149.8)	142.0 (133.6 to 150.1)
Angola	Age-standardized	131.5 (128.8 to 134.0)	129.1 (127.0 to 131.3)	133.6 (131.0 to 136.1)	129.6 (127.4 to 131.9)
Central African Republic	25-29 years	122.3 (114.2 to 130.5)	118.7 (111.9 to 125.7)	124.0 (116.9 to 131.5)	118.8 (112.1 to 125.8)
Central African Republic	30-34 years	128.0 (120.4 to 136.3)	121.0 (114.6 to 127.8)	129.2 (120.9 to 137.6)	121.1 (114.7 to 127.9)
Central African Republic	35-39 years	128.6 (120.9 to 136.4)	122.9 (116.1 to 130.1)	129.9 (122.3 to 138.6)	122.9 (116.0 to 129.8)
Central African Republic	40-44 years	128.1 (119.8 to 136.6)	125.6 (118.5 to 133.5)	129.9 (122.2 to 137.4)	125.8 (119.1 to 133.4)
Central African Republic	45-49 years	130.5 (122.8 to 139.0)	128.6 (121.3 to 136.0)	132.3 (124.0 to 140.3)	130.1 (122.4 to 137.8)
Central African Republic	50-54 years	132.9 (125.2 to 141.4)	131.7 (123.7 to 139.3)	134.4 (126.4 to 142.8)	133.4 (125.7 to 140.6)
Central African Republic	55-59 years	135.2 (127.1 to 144.3)	135.2 (127.6 to 142.9)	137.1 (128.8 to 146.7)	136.7 (128.9 to 144.6)
Central African Republic	60-64 years	137.0 (128.5 to 145.7)	137.6 (130.1 to 145.6)	139.5 (131.7 to 148.3)	139.7 (132.2 to 147.7)
Central African Republic	65-69 years	136.9 (128.6 to 145.6)	140.2 (132.5 to 148.3)	139.1 (130.9 to 147.7)	142.3 (134.5 to 150.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Central African Republic	70-74 years	136.8 (128.4 to 145.7)	138.4 (130.9 to 146.5)	138.0 (129.8 to 146.6)	139.7 (131.5 to 147.8)
Central African Republic	75-79 years	139.8 (131.1 to 148.2)	140.4 (133.0 to 148.5)	139.9 (132.2 to 148.5)	140.2 (132.1 to 148.3)
Central African Republic	80+ years	140.6 (132.4 to 149.8)	142.3 (134.4 to 150.2)	140.3 (132.0 to 149.4)	142.0 (133.8 to 150.5)
Central African Republic	Age-standardized	131.0 (128.4 to 133.7)	128.8 (126.5 to 131.0)	132.5 (129.9 to 135.1)	129.6 (127.4 to 131.9)
Congo	25-29 years	123.2 (115.5 to 130.8)	117.7 (111.1 to 124.2)	124.4 (117.0 to 132.8)	117.4 (110.6 to 124.4)
Congo	30-34 years	128.7 (120.3 to 136.9)	120.6 (113.9 to 127.8)	129.8 (122.2 to 138.0)	120.3 (113.6 to 126.8)
Congo	35-39 years	129.3 (121.7 to 137.2)	122.3 (115.6 to 129.2)	130.6 (122.8 to 138.5)	122.1 (115.7 to 129.0)
Congo	40-44 years	128.6 (121.2 to 136.7)	124.8 (118.1 to 132.1)	130.5 (123.0 to 138.7)	124.8 (117.7 to 132.0)
Congo	45-49 years	131.3 (123.3 to 139.4)	127.9 (120.9 to 134.9)	133.2 (124.9 to 141.3)	128.8 (121.2 to 135.7)
Congo	50-54 years	133.3 (125.1 to 141.4)	130.8 (123.4 to 138.5)	135.6 (127.7 to 143.6)	132.4 (125.4 to 140.0)
Congo	55-59 years	136.0 (128.0 to 144.9)	134.2 (126.8 to 141.8)	138.2 (130.1 to 147.1)	135.7 (128.3 to 142.8)
Congo	60-64 years	138.0 (128.6 to 146.7)	136.5 (128.7 to 144.6)	140.4 (131.3 to 149.5)	138.4 (130.5 to 146.0)
Congo	65-69 years	137.8 (129.0 to 146.8)	139.1 (131.8 to 147.6)	140.2 (131.7 to 148.7)	141.0 (133.3 to 149.8)
Congo	70-74 years	137.6 (129.3 to 146.2)	137.6 (129.9 to 146.1)	139.1 (131.0 to 148.1)	138.6 (130.8 to 146.8)
Congo	75-79 years	140.5 (131.8 to 149.4)	139.3 (131.3 to 147.5)	140.9 (132.2 to 150.3)	138.8 (131.4 to 146.9)
Congo	80+ years	141.0 (131.9 to 149.9)	141.3 (133.4 to 149.8)	141.3 (132.9 to 149.9)	140.6 (133.2 to 148.6)
Congo	Age-standardized	131.8 (129.3 to 134.2)	128.0 (125.7 to 130.2)	133.4 (130.9 to 136.0)	128.5 (126.2 to 130.7)
Democratic Republic of the Congo	25-29 years	122.6 (115.9 to 130.1)	120.1 (113.9 to 126.4)	124.2 (118.3 to 130.7)	119.5 (114.5 to 125.1)
Democratic Republic of the Congo	30-34 years	128.6 (121.2 to 136.7)	122.7 (116.5 to 129.3)	129.8 (123.3 to 136.8)	122.2 (116.6 to 128.4)
Democratic Republic of the Congo	35-39 years	129.1 (121.9 to 136.8)	124.3 (117.1 to 131.5)	130.5 (124.3 to 137.0)	123.7 (118.3 to 129.6)
Democratic Republic of the Congo	40-44 years	128.1 (120.5 to 136.3)	126.1 (118.9 to 133.5)	129.4 (122.9 to 136.4)	125.8 (120.0 to 131.9)
Democratic Republic of the Congo	45-49 years	130.0 (122.6 to 138.3)	128.7 (121.9 to 135.9)	131.8 (124.9 to 138.4)	129.2 (123.1 to 135.3)
Democratic Republic of the Congo	50-54 years	131.4 (123.1 to 139.6)	131.6 (124.7 to 138.9)	133.1 (126.3 to 140.2)	131.8 (125.9 to 138.1)
Democratic Republic of the Congo	55-59 years	133.8 (125.7 to 142.3)	134.3 (127.0 to 142.3)	135.4 (128.0 to 142.9)	134.7 (128.7 to 141.2)
Democratic Republic of the Congo	60-64 years	135.5 (127.0 to 144.4)	136.1 (129.1 to 144.0)	137.1 (130.1 to 144.8)	137.3 (130.6 to 144.1)
Democratic Republic of the Congo	65-69 years	134.0 (125.8 to 142.2)	137.7 (130.6 to 146.1)	135.3 (128.2 to 142.8)	138.8 (132.1 to 145.7)
Democratic Republic of the Congo	70-74 years	133.1 (125.3 to 141.7)	134.6 (127.5 to 142.6)	133.9 (127.0 to 140.8)	135.5 (128.5 to 142.5)
Democratic Republic of the Congo	75-79 years	135.6 (127.0 to 143.6)	135.3 (127.9 to 143.0)	136.1 (127.9 to 145.3)	135.4 (128.4 to 142.3)
Democratic Republic of the Congo	80+ years	135.6 (127.3 to 144.1)	136.7 (129.6 to 144.5)	136.2 (128.1 to 145.2)	136.8 (129.5 to 144.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Democratic Republic of the Congo	Age-standardized	130.1 (127.9 to 132.6)	128.6 (126.3 to 131.0)	131.5 (129.5 to 133.7)	128.6 (126.8 to 130.5)
Equatorial Guinea	25-29 years	122.9 (114.8 to 130.7)	118.7 (111.8 to 125.2)	125.7 (118.2 to 133.7)	118.3 (111.8 to 125.5)
Equatorial Guinea	30-34 years	128.6 (120.7 to 136.3)	121.4 (114.7 to 128.4)	131.1 (123.0 to 139.3)	120.4 (114.0 to 127.3)
Equatorial Guinea	35-39 years	129.2 (121.2 to 137.1)	123.6 (116.8 to 130.8)	131.7 (124.1 to 139.6)	122.5 (115.9 to 130.0)
Equatorial Guinea	40-44 years	128.7 (120.4 to 137.0)	125.8 (118.8 to 133.1)	132.0 (124.2 to 140.4)	125.3 (118.0 to 132.3)
Equatorial Guinea	45-49 years	131.1 (123.2 to 139.6)	129.2 (121.7 to 137.6)	134.4 (125.6 to 142.5)	129.5 (122.5 to 136.8)
Equatorial Guinea	50-54 years	133.4 (125.3 to 142.0)	132.4 (125.3 to 140.0)	136.9 (129.2 to 145.6)	132.7 (125.3 to 140.3)
Equatorial Guinea	55-59 years	136.0 (128.1 to 144.7)	135.6 (128.0 to 143.6)	139.7 (130.8 to 149.2)	136.0 (128.4 to 143.8)
Equatorial Guinea	60-64 years	137.8 (129.4 to 146.6)	137.9 (130.4 to 145.6)	142.2 (133.4 to 151.2)	139.2 (131.5 to 147.1)
Equatorial Guinea	65-69 years	138.0 (130.1 to 146.5)	140.9 (133.2 to 149.3)	141.3 (133.2 to 149.7)	141.5 (133.9 to 150.0)
Equatorial Guinea	70-74 years	137.8 (129.3 to 146.8)	139.3 (131.5 to 147.1)	140.4 (131.6 to 149.7)	139.1 (131.5 to 146.7)
Equatorial Guinea	75-79 years	140.2 (131.2 to 148.9)	141.0 (132.7 to 149.8)	142.2 (132.9 to 151.5)	139.9 (132.2 to 147.7)
Equatorial Guinea	80+ years	140.9 (132.9 to 149.6)	142.7 (134.7 to 151.0)	142.5 (134.5 to 151.8)	141.1 (133.2 to 149.5)
Equatorial Guinea	Age-standardized	131.7 (129.0 to 134.2)	129.3 (127.1 to 131.6)	134.7 (132.2 to 137.0)	129.0 (126.8 to 131.2)
Gabon	25-29 years	122.2 (114.7 to 129.9)	117.0 (110.4 to 123.7)	122.8 (117.2 to 128.6)	116.3 (111.4 to 121.4)
Gabon	30-34 years	127.8 (120.5 to 135.8)	119.8 (113.3 to 126.6)	128.5 (122.6 to 134.6)	119.1 (114.4 to 124.2)
Gabon	35-39 years	128.6 (120.8 to 137.0)	122.3 (115.6 to 129.1)	129.7 (123.4 to 136.0)	121.9 (115.8 to 127.6)
Gabon	40-44 years	129.0 (120.9 to 137.0)	125.1 (118.0 to 132.6)	130.1 (123.6 to 136.7)	125.0 (118.8 to 130.6)
Gabon	45-49 years	131.3 (123.3 to 139.6)	129.5 (122.5 to 136.9)	132.6 (125.8 to 139.9)	129.9 (123.6 to 136.2)
Gabon	50-54 years	133.6 (126.1 to 142.3)	133.1 (125.5 to 141.4)	134.8 (127.9 to 142.1)	133.4 (127.2 to 139.8)
Gabon	55-59 years	136.8 (128.9 to 145.3)	136.9 (129.4 to 145.2)	138.3 (131.2 to 145.7)	136.7 (129.3 to 144.4)
Gabon	60-64 years	138.8 (130.4 to 147.5)	140.1 (132.3 to 148.0)	140.5 (132.7 to 149.2)	140.1 (132.5 to 148.0)
Gabon	65-69 years	140.1 (131.3 to 149.0)	142.3 (134.1 to 150.3)	141.3 (132.8 to 150.7)	142.3 (134.7 to 150.2)
Gabon	70-74 years	140.2 (131.4 to 148.9)	142.5 (135.1 to 150.7)	141.1 (132.1 to 150.2)	142.5 (134.8 to 150.1)
Gabon	75-79 years	142.2 (133.2 to 151.3)	144.2 (136.2 to 152.8)	143.3 (134.7 to 151.9)	143.7 (135.8 to 152.3)
Gabon	80+ years	142.4 (134.0 to 151.0)	146.1 (137.9 to 154.0)	143.2 (135.1 to 151.7)	145.0 (136.6 to 153.3)
Gabon	Age-standardized	132.0 (129.4 to 134.5)	129.4 (127.2 to 131.8)	133.0 (131.0 to 135.2)	129.2 (127.2 to 131.1)
Burundi	25-29 years	118.2 (113.9 to 122.9)	114.4 (110.9 to 118.1)	121.0 (116.6 to 125.4)	116.5 (112.9 to 120.1)
Burundi	30-34 years	123.2 (118.8 to 127.7)	116.8 (113.3 to 120.6)	126.0 (121.3 to 130.6)	119.1 (115.5 to 123.0)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Burundi	35-39 years	122.8 (117.9 to 127.7)	118.4 (114.6 to 122.3)	126.2 (121.6 to 131.1)	120.9 (117.0 to 125.0)
Burundi	40-44 years	123.2 (118.8 to 127.8)	121.3 (117.4 to 125.2)	126.5 (121.6 to 131.1)	123.9 (119.8 to 128.1)
Burundi	45-49 years	126.0 (121.2 to 130.7)	124.9 (121.1 to 129.0)	129.3 (124.5 to 133.9)	128.4 (124.2 to 132.5)
Burundi	50-54 years	128.4 (123.8 to 133.3)	128.7 (124.5 to 133.0)	131.5 (126.6 to 136.3)	132.3 (128.2 to 136.8)
Burundi	55-59 years	130.7 (126.2 to 135.3)	132.1 (127.7 to 136.7)	134.4 (129.5 to 139.7)	136.0 (131.8 to 140.4)
Burundi	60-64 years	132.7 (127.8 to 137.7)	135.1 (130.7 to 139.4)	136.7 (131.2 to 142.0)	139.1 (134.7 to 143.5)
Burundi	65-69 years	134.4 (129.5 to 139.9)	138.0 (133.8 to 142.5)	137.9 (133.0 to 143.1)	141.6 (137.0 to 146.3)
Burundi	70-74 years	135.9 (131.1 to 140.8)	140.0 (135.3 to 144.7)	138.3 (133.5 to 143.2)	141.8 (137.2 to 146.6)
Burundi	75-79 years	138.3 (133.4 to 143.7)	143.5 (139.0 to 148.5)	140.2 (135.3 to 145.7)	143.2 (138.6 to 147.9)
Burundi	80+ years	141.0 (135.8 to 145.7)	145.3 (140.8 to 150.2)	139.6 (134.7 to 144.7)	144.7 (140.1 to 149.4)
Burundi	Age-standardized	126.9 (125.5 to 128.3)	125.8 (124.6 to 127.0)	129.9 (128.4 to 131.4)	128.5 (127.2 to 129.7)
Comoros	25-29 years	121.2 (116.9 to 125.9)	118.7 (115.0 to 122.5)	122.1 (119.7 to 124.6)	118.9 (116.8 to 120.9)
Comoros	30-34 years	127.0 (122.6 to 131.7)	121.5 (117.7 to 125.5)	127.8 (125.3 to 130.2)	121.6 (119.6 to 123.8)
Comoros	35-39 years	127.7 (123.0 to 132.4)	123.0 (118.9 to 127.0)	128.7 (126.4 to 131.1)	123.3 (121.3 to 125.5)
Comoros	40-44 years	128.0 (123.7 to 132.7)	126.2 (122.1 to 130.3)	128.8 (126.3 to 131.3)	126.5 (124.4 to 128.7)
Comoros	45-49 years	130.6 (125.8 to 135.2)	129.7 (125.4 to 134.3)	131.5 (129.0 to 134.1)	130.0 (127.8 to 132.1)
Comoros	50-54 years	133.1 (128.0 to 138.0)	133.2 (129.2 to 137.5)	133.9 (131.3 to 136.6)	133.4 (131.3 to 135.7)
Comoros	55-59 years	135.6 (130.5 to 140.8)	136.6 (132.1 to 141.2)	136.4 (133.9 to 139.2)	136.7 (134.4 to 138.9)
Comoros	60-64 years	137.5 (132.1 to 142.5)	139.6 (135.2 to 144.1)	138.5 (135.8 to 141.0)	139.6 (137.3 to 142.0)
Comoros	65-69 years	139.2 (134.5 to 144.4)	141.8 (137.3 to 147.0)	139.8 (134.6 to 145.4)	141.9 (137.3 to 146.6)
Comoros	70-74 years	139.7 (134.7 to 144.9)	143.1 (138.1 to 147.8)	140.2 (135.2 to 145.2)	142.8 (138.4 to 147.4)
Comoros	75-79 years	141.4 (136.4 to 146.8)	145.2 (140.3 to 150.0)	142.1 (137.1 to 147.4)	144.5 (139.9 to 149.5)
Comoros	80+ years	141.8 (136.7 to 147.2)	146.6 (141.9 to 151.3)	142.3 (137.3 to 147.6)	146.1 (141.4 to 151.1)
Comoros	Age-standardized	131.1 (129.6 to 132.6)	130.1 (128.8 to 131.4)	131.9 (131.1 to 132.8)	130.2 (129.4 to 130.9)
Djibouti	25-29 years	118.7 (114.3 to 122.9)	113.8 (110.4 to 117.5)	121.8 (117.6 to 126.1)	115.9 (112.1 to 119.8)
Djibouti	30-34 years	123.6 (119.1 to 128.7)	116.3 (112.5 to 120.3)	127.1 (122.4 to 132.1)	118.8 (114.9 to 122.8)
Djibouti	35-39 years	123.5 (119.1 to 128.1)	117.8 (114.3 to 121.8)	127.2 (122.5 to 132.1)	120.7 (116.9 to 124.5)
Djibouti	40-44 years	124.0 (119.6 to 128.7)	120.9 (117.1 to 124.8)	127.6 (123.0 to 132.1)	123.8 (119.7 to 127.6)
Djibouti	45-49 years	126.6 (122.3 to 131.3)	124.6 (120.7 to 128.6)	130.4 (125.5 to 135.5)	128.4 (124.2 to 132.5)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Djibouti	50-54 years	129.0 (124.2 to 134.0)	128.3 (124.1 to 132.6)	132.9 (127.6 to 138.0)	132.4 (128.0 to 137.0)
Djibouti	55-59 years	131.5 (126.7 to 136.6)	131.8 (127.6 to 136.2)	135.6 (130.7 to 141.1)	136.1 (131.5 to 140.9)
Djibouti	60-64 years	133.3 (128.4 to 138.7)	135.0 (130.4 to 139.4)	138.0 (132.7 to 143.6)	139.1 (134.7 to 143.6)
Djibouti	65-69 years	135.0 (130.4 to 140.2)	138.0 (133.6 to 142.3)	139.0 (134.0 to 144.6)	141.8 (137.1 to 146.1)
Djibouti	70-74 years	136.5 (131.7 to 141.9)	139.9 (135.2 to 145.1)	139.4 (134.5 to 144.2)	141.9 (137.0 to 146.8)
Djibouti	75-79 years	139.2 (133.7 to 144.4)	143.4 (139.1 to 147.9)	141.1 (135.9 to 146.7)	143.4 (138.9 to 148.7)
Djibouti	80+ years	141.7 (136.5 to 147.0)	144.9 (140.3 to 149.6)	140.8 (135.5 to 146.1)	144.8 (139.9 to 149.8)
Djibouti	Age-standardized	127.5 (126.2 to 129.0)	125.4 (124.2 to 126.7)	131.0 (129.5 to 132.5)	128.4 (127.1 to 129.7)
Eritrea	25-29 years	114.7 (110.7 to 118.9)	111.7 (108.1 to 115.4)	115.7 (112.1 to 119.6)	111.4 (108.2 to 114.7)
Eritrea	30-34 years	120.0 (115.9 to 124.3)	114.3 (110.9 to 117.8)	121.0 (117.2 to 125.0)	114.1 (111.0 to 117.3)
Eritrea	35-39 years	120.7 (116.7 to 124.7)	115.7 (112.4 to 119.3)	121.6 (118.0 to 125.6)	115.7 (112.3 to 119.0)
Eritrea	40-44 years	120.9 (116.5 to 125.0)	118.5 (114.9 to 122.1)	122.1 (118.2 to 126.2)	118.7 (115.2 to 122.0)
Eritrea	45-49 years	123.5 (119.2 to 127.8)	121.9 (117.9 to 125.9)	124.5 (120.9 to 128.6)	122.0 (118.6 to 125.4)
Eritrea	50-54 years	125.8 (121.6 to 130.0)	125.2 (121.6 to 129.1)	126.9 (123.0 to 131.1)	125.3 (121.6 to 128.9)
Eritrea	55-59 years	128.1 (124.1 to 132.5)	128.2 (124.3 to 132.0)	129.2 (125.1 to 133.2)	128.4 (124.9 to 132.0)
Eritrea	60-64 years	129.8 (125.4 to 134.6)	131.0 (126.9 to 135.1)	131.2 (127.1 to 135.3)	131.4 (127.4 to 135.3)
Eritrea	65-69 years	131.9 (127.3 to 136.7)	133.6 (129.3 to 138.0)	133.0 (128.1 to 137.8)	133.8 (129.3 to 138.3)
Eritrea	70-74 years	132.2 (127.0 to 137.3)	134.7 (130.6 to 139.2)	133.1 (128.4 to 138.1)	134.3 (130.1 to 138.6)
Eritrea	75-79 years	134.2 (129.1 to 139.3)	136.7 (132.4 to 141.3)	134.9 (129.9 to 139.9)	136.0 (131.9 to 140.0)
Eritrea	80+ years	134.6 (129.7 to 139.6)	138.1 (133.8 to 142.6)	135.0 (129.8 to 140.2)	137.3 (132.4 to 142.0)
Eritrea	Age-standardized	124.0 (122.7 to 125.4)	122.3 (121.1 to 123.5)	125.0 (123.7 to 126.3)	122.3 (121.1 to 123.4)
Ethiopia	25-29 years	110.5 (106.7 to 114.6)	105.2 (101.9 to 108.6)	116.1 (112.2 to 119.8)	109.7 (106.6 to 112.7)
Ethiopia	30-34 years	114.4 (110.4 to 118.3)	107.6 (104.3 to 111.2)	121.6 (117.9 to 125.5)	112.3 (109.1 to 115.4)
Ethiopia	35-39 years	115.0 (111.0 to 118.9)	109.3 (105.6 to 112.8)	121.5 (117.7 to 125.3)	114.7 (111.6 to 117.9)
Ethiopia	40-44 years	118.2 (113.9 to 122.2)	112.6 (109.4 to 116.2)	121.8 (118.0 to 125.6)	117.6 (114.1 to 121.0)
Ethiopia	45-49 years	121.1 (117.0 to 125.4)	116.1 (112.6 to 119.6)	125.5 (121.8 to 129.4)	121.4 (117.9 to 124.9)
Ethiopia	50-54 years	124.6 (120.1 to 129.3)	120.1 (116.3 to 123.8)	128.5 (124.5 to 132.5)	124.9 (121.3 to 128.4)
Ethiopia	55-59 years	128.7 (123.8 to 133.6)	123.7 (120.0 to 127.5)	133.0 (128.8 to 137.5)	128.5 (124.7 to 132.1)
Ethiopia	60-64 years	130.6 (126.0 to 135.4)	126.5 (122.4 to 130.4)	135.2 (130.7 to 139.5)	131.3 (127.3 to 135.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Ethiopia	65-69 years	131.9 (127.0 to 136.4)	129.8 (125.6 to 133.9)	134.3 (129.6 to 139.0)	132.5 (128.1 to 136.5)
Ethiopia	70-74 years	136.5 (131.8 to 141.7)	135.0 (130.7 to 139.3)	139.1 (134.1 to 144.3)	136.4 (131.9 to 140.6)
Ethiopia	75-79 years	140.2 (135.1 to 145.9)	136.7 (132.1 to 141.2)	141.3 (136.4 to 146.4)	137.8 (133.3 to 142.3)
Ethiopia	80+ years	140.6 (135.6 to 145.7)	138.2 (133.6 to 142.7)	141.4 (136.1 to 146.9)	139.3 (135.1 to 143.6)
Ethiopia	Age-standardized	122.1 (120.8 to 123.4)	117.3 (116.2 to 118.5)	126.7 (125.4 to 127.9)	121.7 (120.7 to 122.7)
Kenya	25-29 years	118.2 (117.2 to 119.1)	116.8 (116.1 to 117.5)	120.9 (119.9 to 121.9)	116.3 (115.7 to 117.0)
Kenya	30-34 years	123.5 (122.6 to 124.4)	119.3 (118.6 to 120.0)	125.3 (124.3 to 126.2)	119.9 (119.2 to 120.6)
Kenya	35-39 years	123.8 (122.9 to 124.6)	121.1 (120.4 to 121.8)	126.0 (125.1 to 127.0)	121.7 (121.0 to 122.3)
Kenya	40-44 years	124.3 (123.4 to 125.1)	124.1 (123.4 to 124.7)	126.4 (125.5 to 127.3)	124.8 (124.1 to 125.5)
Kenya	45-49 years	126.8 (126.0 to 127.7)	127.6 (126.9 to 128.3)	129.3 (128.4 to 130.2)	130.9 (130.2 to 131.7)
Kenya	50-54 years	129.3 (128.4 to 130.1)	131.0 (130.2 to 131.8)	131.8 (130.9 to 132.6)	134.5 (133.8 to 135.3)
Kenya	55-59 years	131.6 (130.9 to 132.5)	134.3 (133.5 to 135.1)	134.1 (133.3 to 135.0)	137.7 (136.9 to 138.6)
Kenya	60-64 years	133.6 (132.8 to 134.4)	137.5 (136.7 to 138.3)	136.5 (135.6 to 137.4)	139.6 (138.8 to 140.4)
Kenya	65-69 years	135.6 (134.7 to 136.5)	140.6 (139.8 to 141.4)	138.7 (137.8 to 139.6)	142.7 (141.8 to 143.5)
Kenya	70-74 years	135.9 (135.0 to 136.7)	141.7 (140.9 to 142.6)	137.6 (136.7 to 138.5)	143.0 (142.1 to 143.9)
Kenya	75-79 years	138.2 (137.2 to 139.1)	144.0 (143.1 to 145.0)	140.5 (139.6 to 141.4)	144.6 (143.7 to 145.5)
Kenya	80+ years	139.3 (138.3 to 140.2)	145.5 (144.6 to 146.4)	140.3 (139.4 to 141.2)	145.9 (145.1 to 146.8)
Kenya	Age-standardized	127.5 (127.2 to 127.8)	128.1 (127.9 to 128.4)	129.8 (129.5 to 130.1)	129.6 (129.4 to 129.8)
Madagascar	25-29 years	118.3 (114.1 to 123.0)	113.8 (110.2 to 117.6)	121.2 (116.8 to 125.7)	115.6 (111.9 to 119.6)
Madagascar	30-34 years	123.4 (119.0 to 127.9)	116.1 (112.5 to 119.7)	126.3 (121.8 to 131.2)	118.3 (114.6 to 122.2)
Madagascar	35-39 years	123.0 (118.2 to 127.7)	117.7 (114.1 to 121.9)	126.3 (121.6 to 131.0)	120.2 (116.3 to 124.4)
Madagascar	40-44 years	123.4 (119.1 to 128.0)	120.6 (117.0 to 124.6)	126.6 (122.0 to 131.2)	123.1 (119.4 to 127.4)
Madagascar	45-49 years	126.0 (121.6 to 130.7)	124.2 (120.4 to 128.4)	129.3 (124.6 to 134.1)	127.5 (123.4 to 131.6)
Madagascar	50-54 years	128.6 (124.1 to 133.1)	128.0 (123.7 to 132.4)	131.9 (127.3 to 137.0)	131.5 (127.5 to 135.9)
Madagascar	55-59 years	131.0 (126.4 to 135.7)	131.5 (127.4 to 135.8)	134.7 (130.2 to 139.8)	135.3 (131.1 to 139.8)
Madagascar	60-64 years	133.0 (128.2 to 137.8)	134.7 (130.4 to 139.1)	137.0 (131.9 to 142.6)	138.3 (134.0 to 143.2)
Madagascar	65-69 years	134.5 (129.7 to 139.6)	137.7 (133.4 to 142.3)	138.0 (133.0 to 143.5)	141.0 (136.6 to 145.2)
Madagascar	70-74 years	136.0 (131.0 to 141.2)	139.4 (135.0 to 143.9)	138.5 (133.3 to 144.2)	141.2 (136.6 to 145.9)
Madagascar	75-79 years	138.7 (133.5 to 143.5)	143.1 (138.5 to 147.9)	140.5 (135.5 to 145.5)	142.7 (138.0 to 147.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Madagascar	80+ years	141.2 (135.9 to 146.9)	144.7 (140.0 to 149.9)	139.8 (134.7 to 144.7)	144.1 (139.4 to 149.0)
Madagascar	Age-standardized	127.1 (125.7 to 128.6)	125.2 (123.9 to 126.4)	130.1 (128.6 to 131.6)	127.7 (126.5 to 129.0)
Malawi	25-29 years	128.8 (123.8 to 133.6)	119.8 (115.9 to 123.8)	129.5 (126.2 to 133.0)	119.7 (116.9 to 122.4)
Malawi	30-34 years	134.6 (129.8 to 139.9)	122.7 (118.8 to 126.5)	135.5 (131.9 to 138.9)	122.5 (119.8 to 125.2)
Malawi	35-39 years	133.2 (128.5 to 138.2)	126.5 (122.5 to 130.4)	133.8 (130.4 to 137.2)	126.6 (123.6 to 129.4)
Malawi	40-44 years	133.4 (128.5 to 138.4)	130.0 (126.1 to 133.9)	134.1 (130.7 to 138.0)	130.0 (127.1 to 132.9)
Malawi	45-49 years	136.2 (131.4 to 141.2)	135.6 (131.2 to 140.0)	137.0 (133.3 to 140.7)	135.5 (132.0 to 139.0)
Malawi	50-54 years	138.8 (133.6 to 144.0)	139.4 (134.6 to 143.9)	139.5 (135.5 to 143.2)	139.5 (136.0 to 142.8)
Malawi	55-59 years	142.7 (137.7 to 148.1)	145.6 (140.8 to 150.6)	143.2 (139.0 to 147.4)	145.7 (142.2 to 149.2)
Malawi	60-64 years	144.9 (139.7 to 150.3)	149.4 (144.7 to 154.3)	145.5 (141.2 to 149.8)	149.1 (145.5 to 152.9)
Malawi	65-69 years	146.4 (140.3 to 152.0)	151.4 (146.6 to 156.3)	146.5 (141.1 to 152.5)	150.8 (146.0 to 155.8)
Malawi	70-74 years	146.9 (141.5 to 152.7)	152.7 (147.7 to 157.7)	147.5 (142.1 to 153.0)	152.4 (147.4 to 157.5)
Malawi	75-79 years	148.9 (143.8 to 154.1)	154.9 (149.8 to 160.2)	149.3 (143.9 to 154.9)	154.4 (149.6 to 159.7)
Malawi	80+ years	149.3 (144.1 to 154.8)	156.4 (151.3 to 161.7)	149.4 (144.0 to 155.1)	156.0 (151.1 to 160.9)
Malawi	Age-standardized	137.7 (136.3 to 139.2)	135.5 (134.2 to 136.8)	138.4 (137.1 to 139.6)	135.4 (134.3 to 136.4)
Mozambique	25-29 years	127.6 (122.9 to 132.2)	124.2 (120.5 to 128.2)	128.4 (124.3 to 132.8)	123.1 (119.6 to 126.6)
Mozambique	30-34 years	133.7 (128.9 to 138.7)	127.0 (122.8 to 130.9)	134.3 (130.0 to 138.6)	125.8 (122.0 to 129.5)
Mozambique	35-39 years	134.5 (129.7 to 139.0)	128.6 (124.7 to 132.6)	135.1 (130.8 to 139.3)	127.6 (124.3 to 131.2)
Mozambique	40-44 years	134.8 (130.0 to 139.7)	131.9 (128.1 to 136.2)	135.4 (131.2 to 139.6)	130.9 (127.2 to 134.8)
Mozambique	45-49 years	137.3 (132.7 to 142.0)	135.7 (131.4 to 140.0)	138.2 (133.7 to 142.9)	134.6 (130.6 to 138.5)
Mozambique	50-54 years	140.2 (135.1 to 145.2)	139.1 (135.2 to 143.5)	140.7 (136.3 to 144.9)	138.4 (134.4 to 142.4)
Mozambique	55-59 years	142.5 (137.5 to 147.6)	142.6 (138.0 to 147.1)	143.3 (138.4 to 147.8)	141.7 (137.8 to 145.9)
Mozambique	60-64 years	144.6 (139.6 to 150.2)	145.7 (141.3 to 150.3)	145.4 (140.6 to 150.0)	144.7 (140.6 to 148.9)
Mozambique	65-69 years	146.1 (141.3 to 151.5)	147.9 (142.9 to 152.7)	146.8 (141.6 to 152.2)	147.0 (142.4 to 151.4)
Mozambique	70-74 years	146.6 (141.1 to 152.2)	149.1 (144.4 to 153.6)	147.5 (142.2 to 152.6)	148.2 (143.2 to 153.6)
Mozambique	75-79 years	148.5 (143.0 to 154.0)	151.1 (146.3 to 156.1)	149.7 (144.0 to 155.0)	150.0 (145.4 to 154.9)
Mozambique	80+ years	148.9 (143.5 to 154.2)	152.9 (147.7 to 157.7)	149.6 (144.2 to 155.2)	151.6 (146.3 to 157.1)
Mozambique	Age-standardized	137.9 (136.4 to 139.5)	135.9 (134.6 to 137.3)	138.6 (137.2 to 140.0)	134.9 (133.7 to 136.1)
Rwanda	25-29 years	120.3 (116.0 to 125.0)	115.2 (111.5 to 118.9)	121.0 (118.7 to 123.1)	114.7 (113.2 to 116.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Rwanda	30-34 years	125.4 (120.7 to 130.0)	117.8 (114.1 to 121.6)	126.7 (124.6 to 128.8)	117.4 (115.8 to 119.1)
Rwanda	35-39 years	122.5 (118.1 to 127.3)	119.1 (115.5 to 123.1)	123.1 (120.7 to 125.4)	118.5 (116.7 to 120.2)
Rwanda	40-44 years	122.6 (118.4 to 127.0)	122.0 (118.4 to 125.7)	123.3 (121.1 to 125.5)	121.5 (119.7 to 123.2)
Rwanda	45-49 years	124.3 (119.7 to 129.2)	126.0 (122.1 to 130.1)	125.0 (122.5 to 127.3)	125.5 (123.5 to 127.5)
Rwanda	50-54 years	126.6 (121.9 to 131.5)	129.5 (125.4 to 133.8)	127.3 (124.9 to 129.9)	128.9 (126.8 to 131.0)
Rwanda	55-59 years	129.8 (125.0 to 134.9)	134.4 (129.9 to 139.1)	130.7 (127.6 to 133.8)	134.2 (131.8 to 136.7)
Rwanda	60-64 years	131.8 (127.1 to 136.3)	137.7 (133.4 to 142.2)	132.6 (129.6 to 135.4)	137.3 (134.8 to 140.0)
Rwanda	65-69 years	133.5 (128.9 to 138.2)	140.0 (135.5 to 144.9)	134.7 (129.8 to 139.6)	139.7 (135.1 to 144.8)
Rwanda	70-74 years	133.9 (128.7 to 139.1)	141.2 (136.7 to 145.9)	134.6 (129.7 to 139.6)	140.7 (136.0 to 145.3)
Rwanda	75-79 years	135.9 (131.4 to 140.9)	143.2 (138.7 to 147.9)	136.5 (131.6 to 141.9)	142.3 (137.8 to 147.1)
Rwanda	80+ years	136.2 (131.5 to 141.3)	144.7 (140.1 to 149.4)	136.7 (131.5 to 142.0)	143.7 (139.3 to 148.6)
Rwanda	Age-standardized	126.5 (125.1 to 128.0)	126.9 (125.6 to 128.1)	127.3 (126.4 to 128.1)	126.4 (125.6 to 127.1)
Somalia	25-29 years	118.1 (114.0 to 122.5)	114.8 (111.3 to 118.3)	120.8 (116.4 to 125.1)	117.1 (113.2 to 121.0)
Somalia	30-34 years	123.1 (118.8 to 127.8)	117.2 (113.4 to 121.2)	125.8 (120.9 to 130.3)	119.9 (116.0 to 124.0)
Somalia	35-39 years	122.9 (118.3 to 127.3)	118.8 (114.9 to 122.7)	125.8 (121.2 to 130.5)	121.9 (118.0 to 125.9)
Somalia	40-44 years	123.3 (118.9 to 127.7)	122.0 (118.0 to 125.6)	126.4 (121.8 to 130.8)	125.0 (121.0 to 129.2)
Somalia	45-49 years	125.9 (121.4 to 130.9)	125.7 (121.6 to 130.2)	129.0 (124.1 to 133.7)	129.3 (125.4 to 133.5)
Somalia	50-54 years	128.4 (123.7 to 133.2)	129.5 (125.5 to 134.0)	131.5 (126.6 to 136.6)	133.4 (129.2 to 137.7)
Somalia	55-59 years	131.0 (126.0 to 136.0)	133.0 (128.7 to 137.6)	134.2 (129.4 to 139.3)	137.4 (132.7 to 141.9)
Somalia	60-64 years	132.8 (128.0 to 137.8)	136.2 (131.9 to 141.0)	136.6 (131.9 to 141.4)	140.4 (135.8 to 145.1)
Somalia	65-69 years	134.2 (129.2 to 139.3)	139.0 (134.5 to 143.5)	137.7 (132.3 to 143.0)	143.1 (138.2 to 148.0)
Somalia	70-74 years	135.8 (130.7 to 140.9)	140.9 (136.6 to 145.4)	138.0 (132.7 to 143.3)	143.2 (138.6 to 147.7)
Somalia	75-79 years	138.5 (133.4 to 144.0)	144.6 (139.9 to 149.7)	140.0 (135.0 to 145.7)	144.5 (139.5 to 149.5)
Somalia	80+ years	140.9 (135.4 to 146.1)	146.0 (141.3 to 151.0)	139.4 (134.1 to 144.4)	145.9 (141.5 to 150.7)
Somalia	Age-standardized	126.9 (125.5 to 128.5)	126.5 (125.2 to 127.7)	129.7 (128.3 to 131.2)	129.5 (128.3 to 130.9)
South Sudan	25-29 years	118.3 (113.9 to 122.8)	114.9 (111.1 to 118.7)	121.3 (116.9 to 126.0)	116.9 (113.2 to 120.7)
South Sudan	30-34 years	123.4 (119.2 to 128.0)	117.5 (113.8 to 121.2)	126.4 (121.6 to 131.1)	119.7 (116.0 to 123.6)
South Sudan	35-39 years	123.1 (118.6 to 127.6)	119.2 (115.2 to 123.3)	126.5 (121.8 to 131.5)	121.6 (117.7 to 125.5)
South Sudan	40-44 years	123.5 (118.8 to 128.2)	122.3 (118.4 to 126.5)	127.0 (122.3 to 131.6)	124.8 (120.6 to 129.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
South Sudan	45-49 years	126.2 (121.5 to 131.1)	126.1 (122.0 to 130.7)	129.7 (125.1 to 134.3)	129.4 (125.3 to 133.6)
South Sudan	50-54 years	128.8 (124.1 to 133.4)	129.7 (125.6 to 134.1)	132.2 (127.5 to 137.0)	133.4 (129.1 to 137.4)
South Sudan	55-59 years	131.2 (126.5 to 135.8)	133.3 (129.1 to 138.1)	135.1 (130.1 to 140.3)	137.2 (132.8 to 141.8)
South Sudan	60-64 years	133.2 (128.7 to 138.4)	136.5 (131.8 to 141.1)	137.3 (132.5 to 142.0)	140.1 (135.9 to 144.9)
South Sudan	65-69 years	134.6 (129.6 to 139.4)	139.4 (134.9 to 144.1)	138.4 (133.3 to 143.6)	143.0 (138.4 to 147.4)
South Sudan	70-74 years	136.0 (130.8 to 141.2)	141.3 (136.9 to 146.0)	138.5 (133.5 to 143.9)	143.0 (138.5 to 147.6)
South Sudan	75-79 years	138.9 (133.7 to 144.2)	145.0 (140.4 to 149.9)	140.8 (135.8 to 146.0)	144.4 (139.7 to 149.1)
South Sudan	80+ years	141.4 (136.5 to 146.6)	146.4 (141.8 to 151.3)	140.0 (134.7 to 145.1)	145.7 (141.3 to 151.1)
South Sudan	Age-standardized	127.2 (125.8 to 128.6)	126.8 (125.4 to 128.0)	130.4 (128.9 to 131.9)	129.4 (128.1 to 130.7)
Tanzania	25-29 years	119.7 (116.6 to 123.1)	116.2 (113.5 to 119.3)	124.5 (121.8 to 127.4)	119.7 (117.4 to 121.9)
Tanzania	30-34 years	125.2 (121.6 to 128.7)	118.7 (115.7 to 121.6)	130.3 (127.3 to 133.3)	122.4 (120.1 to 124.6)
Tanzania	35-39 years	123.5 (120.5 to 126.5)	119.1 (116.6 to 121.5)	131.2 (128.1 to 134.3)	124.1 (121.9 to 126.3)
Tanzania	40-44 years	123.5 (120.9 to 126.3)	122.0 (119.5 to 124.7)	131.4 (128.5 to 134.4)	127.2 (124.8 to 129.6)
Tanzania	45-49 years	125.6 (122.9 to 128.8)	125.2 (122.6 to 127.8)	134.1 (131.1 to 137.3)	130.9 (128.5 to 133.4)
Tanzania	50-54 years	127.9 (125.0 to 130.9)	128.6 (126.0 to 131.5)	136.6 (133.4 to 139.5)	134.3 (131.6 to 136.9)
Tanzania	55-59 years	129.9 (126.9 to 133.0)	131.8 (129.1 to 134.5)	139.0 (136.0 to 142.1)	137.5 (135.2 to 140.0)
Tanzania	60-64 years	131.7 (128.6 to 134.8)	134.6 (132.0 to 137.7)	141.1 (137.8 to 144.4)	140.4 (137.7 to 143.1)
Tanzania	65-69 years	133.2 (129.0 to 137.7)	136.9 (132.6 to 140.9)	142.1 (137.1 to 147.2)	142.5 (137.9 to 147.3)
Tanzania	70-74 years	134.9 (130.5 to 139.4)	139.0 (134.8 to 143.0)	140.9 (135.6 to 146.0)	142.3 (137.7 to 146.9)
Tanzania	75-79 years	136.6 (131.8 to 141.3)	142.3 (137.9 to 146.8)	139.1 (134.1 to 144.3)	143.3 (138.7 to 148.0)
Tanzania	80+ years	140.0 (135.1 to 145.4)	143.5 (138.9 to 147.9)	140.9 (135.7 to 146.7)	143.2 (139.0 to 148.0)
Tanzania	Age-standardized	127.1 (126.0 to 128.1)	126.2 (125.3 to 127.1)	134.0 (132.9 to 135.1)	130.7 (129.9 to 131.6)
Uganda	25-29 years	121.8 (117.5 to 126.2)	120.5 (116.6 to 124.4)	121.4 (119.1 to 123.6)	116.9 (114.6 to 119.4)
Uganda	30-34 years	127.1 (122.4 to 131.8)	122.9 (118.9 to 127.1)	125.7 (123.3 to 127.9)	120.0 (117.7 to 122.4)
Uganda	35-39 years	127.8 (123.3 to 132.5)	124.6 (120.6 to 128.4)	126.5 (124.2 to 128.8)	121.7 (119.4 to 124.0)
Uganda	40-44 years	128.1 (123.5 to 132.9)	127.6 (123.2 to 131.8)	126.7 (124.5 to 129.1)	124.5 (122.0 to 127.0)
Uganda	45-49 years	130.8 (126.0 to 135.6)	131.1 (126.9 to 135.7)	129.3 (126.7 to 131.9)	128.1 (125.6 to 130.8)
Uganda	50-54 years	133.4 (128.8 to 138.4)	135.1 (130.7 to 139.6)	131.0 (128.4 to 133.4)	133.3 (130.7 to 135.8)
Uganda	55-59 years	136.0 (131.0 to 141.2)	138.6 (134.0 to 142.8)	133.4 (130.9 to 135.9)	136.6 (133.8 to 139.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Uganda	60-64 years	137.8 (132.8 to 142.5)	141.6 (136.9 to 146.3)	135.5 (132.9 to 138.2)	139.6 (136.9 to 142.6)
Uganda	65-69 years	140.0 (135.0 to 145.6)	144.7 (140.0 to 149.7)	137.5 (134.7 to 140.3)	142.7 (139.8 to 145.6)
Uganda	70-74 years	140.0 (135.0 to 144.7)	145.6 (141.0 to 150.2)	138.3 (135.5 to 141.4)	142.3 (139.4 to 145.7)
Uganda	75-79 years	141.3 (136.3 to 146.6)	146.9 (142.3 to 151.8)	139.6 (135.8 to 143.6)	143.3 (140.1 to 146.6)
Uganda	80+ years	140.9 (135.4 to 146.3)	148.0 (143.5 to 152.6)	138.9 (135.1 to 142.8)	145.0 (141.4 to 148.7)
Uganda	Age-standardized	131.3 (129.9 to 132.9)	131.8 (130.4 to 133.2)	129.7 (128.9 to 130.5)	129.1 (128.3 to 129.8)
Zambia	25-29 years	118.6 (114.2 to 123.1)	113.7 (109.8 to 117.3)	121.8 (117.1 to 126.6)	115.4 (111.6 to 119.2)
Zambia	30-34 years	123.6 (118.9 to 128.6)	116.0 (112.2 to 120.1)	126.7 (122.3 to 131.5)	118.2 (114.7 to 121.9)
Zambia	35-39 years	123.3 (119.1 to 127.8)	117.7 (114.1 to 121.7)	126.9 (122.5 to 131.4)	120.1 (116.2 to 124.0)
Zambia	40-44 years	123.9 (119.4 to 128.6)	120.7 (116.8 to 124.9)	127.2 (122.6 to 131.7)	123.2 (119.2 to 126.8)
Zambia	45-49 years	126.3 (121.8 to 131.1)	124.2 (120.3 to 128.0)	129.9 (124.8 to 134.8)	127.5 (123.5 to 131.9)
Zambia	50-54 years	128.9 (124.2 to 133.8)	128.1 (124.0 to 132.5)	132.4 (127.6 to 137.0)	131.7 (127.5 to 135.8)
Zambia	55-59 years	131.3 (126.5 to 136.3)	131.4 (127.3 to 136.0)	135.4 (130.4 to 140.7)	135.7 (131.4 to 140.1)
Zambia	60-64 years	133.3 (128.5 to 138.7)	134.8 (130.3 to 138.9)	137.6 (132.4 to 142.8)	138.9 (134.5 to 143.1)
Zambia	65-69 years	134.6 (129.5 to 140.0)	137.8 (133.5 to 142.4)	138.6 (133.4 to 143.9)	141.6 (137.3 to 146.0)
Zambia	70-74 years	136.1 (131.1 to 141.2)	139.9 (135.3 to 144.3)	138.9 (134.0 to 144.0)	141.6 (137.1 to 146.2)
Zambia	75-79 years	139.0 (134.0 to 144.1)	143.7 (138.9 to 148.3)	140.8 (135.9 to 146.3)	143.1 (138.6 to 148.0)
Zambia	80+ years	141.5 (136.0 to 147.2)	145.2 (140.3 to 149.8)	140.4 (135.3 to 145.5)	144.5 (139.8 to 149.4)
Zambia	Age-standardized	127.4 (125.9 to 129.0)	125.3 (124.0 to 126.6)	130.7 (129.1 to 132.3)	127.9 (126.6 to 129.1)
Botswana	25-29 years	122.9 (121.2 to 124.7)	118.6 (116.2 to 121.0)	123.6 (122.1 to 125.1)	117.7 (115.5 to 119.9)
Botswana	30-34 years	128.4 (126.5 to 130.1)	121.6 (119.1 to 124.1)	129.2 (127.6 to 130.9)	120.8 (118.6 to 123.0)
Botswana	35-39 years	127.2 (125.3 to 129.1)	125.7 (123.2 to 128.1)	128.2 (126.5 to 129.8)	124.9 (122.8 to 127.2)
Botswana	40-44 years	127.2 (125.4 to 129.1)	129.4 (126.9 to 131.9)	128.3 (126.6 to 129.9)	128.5 (126.4 to 130.7)
Botswana	45-49 years	128.3 (126.6 to 130.3)	135.1 (132.3 to 137.9)	129.5 (127.7 to 131.3)	134.6 (132.4 to 136.7)
Botswana	50-54 years	130.7 (128.9 to 132.6)	138.8 (136.0 to 141.7)	132.0 (130.2 to 133.8)	138.4 (136.1 to 140.8)
Botswana	55-59 years	134.8 (132.9 to 136.8)	143.3 (140.3 to 146.1)	135.8 (133.9 to 137.8)	142.6 (139.9 to 145.3)
Botswana	60-64 years	137.1 (134.9 to 139.1)	146.7 (143.8 to 149.7)	138.3 (136.3 to 140.2)	145.7 (143.0 to 148.6)
Botswana	65-69 years	138.8 (136.9 to 140.9)	149.6 (146.6 to 152.5)	140.1 (138.1 to 142.1)	148.5 (145.8 to 151.5)
Botswana	70-74 years	139.1 (137.1 to 141.0)	150.8 (147.8 to 153.9)	140.3 (138.2 to 142.4)	149.5 (146.6 to 152.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Botswana	75-79 years	141.3 (139.2 to 143.4)	152.8 (149.4 to 155.9)	142.2 (140.3 to 144.4)	151.1 (148.2 to 154.1)
Botswana	80+ years	141.5 (139.5 to 143.7)	154.2 (151.0 to 157.5)	142.1 (140.1 to 144.2)	152.4 (149.4 to 155.2)
Botswana	Age-standardized	130.7 (130.2 to 131.4)	134.2 (133.3 to 135.0)	131.8 (131.2 to 132.3)	133.3 (132.6 to 134.0)
Lesotho	25-29 years	119.2 (117.5 to 120.8)	119.1 (116.9 to 121.4)	120.5 (119.0 to 122.0)	119.0 (117.4 to 120.6)
Lesotho	30-34 years	124.0 (122.3 to 125.8)	121.1 (118.5 to 123.2)	125.6 (124.1 to 127.1)	121.3 (119.6 to 123.0)
Lesotho	35-39 years	124.4 (122.7 to 126.2)	124.7 (122.1 to 127.1)	126.2 (124.6 to 127.6)	123.8 (122.2 to 125.5)
Lesotho	40-44 years	125.1 (123.3 to 126.8)	126.4 (124.0 to 129.0)	126.8 (125.2 to 128.3)	126.4 (124.7 to 128.0)
Lesotho	45-49 years	124.4 (122.6 to 126.1)	131.5 (128.9 to 133.9)	127.9 (126.4 to 129.5)	130.7 (129.1 to 132.3)
Lesotho	50-54 years	128.4 (126.6 to 130.3)	134.7 (131.9 to 137.6)	131.3 (129.6 to 133.0)	134.1 (132.3 to 135.8)
Lesotho	55-59 years	129.5 (127.7 to 131.3)	137.8 (135.2 to 140.6)	133.3 (131.6 to 134.9)	137.3 (135.6 to 139.2)
Lesotho	60-64 years	133.8 (131.9 to 135.6)	140.8 (138.2 to 143.6)	136.7 (135.1 to 138.5)	140.2 (138.4 to 142.0)
Lesotho	65-69 years	135.4 (133.4 to 137.4)	143.4 (140.7 to 146.1)	138.4 (136.5 to 140.3)	143.3 (140.3 to 146.2)
Lesotho	70-74 years	135.7 (133.8 to 137.6)	144.4 (141.6 to 147.3)	138.7 (136.8 to 140.6)	143.9 (141.1 to 147.1)
Lesotho	75-79 years	137.7 (135.9 to 139.5)	146.5 (143.7 to 149.6)	140.5 (138.6 to 142.6)	145.6 (142.8 to 148.4)
Lesotho	80+ years	138.0 (136.1 to 139.8)	147.9 (145.1 to 150.9)	140.4 (138.5 to 142.3)	146.8 (144.0 to 149.9)
Lesotho	Age-standardized	127.3 (126.7 to 127.8)	131.1 (130.3 to 131.8)	129.7 (129.2 to 130.2)	130.6 (130.1 to 131.2)
Namibia	25-29 years	120.7 (119.1 to 122.3)	116.0 (113.7 to 118.5)	121.4 (119.7 to 123.1)	115.5 (113.3 to 117.7)
Namibia	30-34 years	125.9 (124.1 to 127.6)	118.6 (116.2 to 121.1)	126.6 (124.7 to 128.4)	118.4 (116.0 to 120.8)
Namibia	35-39 years	126.4 (124.7 to 128.2)	120.8 (118.5 to 123.1)	127.1 (125.5 to 128.5)	120.1 (118.4 to 121.9)
Namibia	40-44 years	128.3 (126.5 to 130.1)	125.0 (122.5 to 127.5)	129.2 (127.5 to 130.8)	124.5 (122.7 to 126.4)
Namibia	45-49 years	130.4 (128.5 to 132.3)	131.2 (128.6 to 133.7)	131.1 (129.5 to 132.8)	131.4 (129.3 to 133.4)
Namibia	50-54 years	133.3 (131.5 to 135.3)	133.4 (130.7 to 136.0)	134.3 (132.6 to 136.0)	133.3 (131.3 to 135.4)
Namibia	55-59 years	135.9 (134.1 to 137.9)	136.9 (134.2 to 139.5)	136.6 (134.9 to 138.3)	137.0 (134.6 to 139.3)
Namibia	60-64 years	140.0 (138.1 to 142.0)	136.2 (133.3 to 138.9)	140.7 (138.9 to 142.4)	135.7 (133.5 to 137.8)
Namibia	65-69 years	141.8 (139.7 to 143.9)	138.6 (136.1 to 141.2)	142.4 (140.4 to 144.5)	139.1 (136.2 to 142.0)
Namibia	70-74 years	142.2 (139.9 to 144.1)	139.7 (137.0 to 142.6)	142.7 (140.7 to 144.8)	139.4 (136.6 to 142.1)
Namibia	75-79 years	144.2 (142.2 to 146.4)	141.7 (138.9 to 144.4)	144.6 (142.7 to 146.6)	141.2 (138.4 to 144.0)
Namibia	80+ years	144.5 (142.4 to 146.5)	143.0 (140.1 to 145.9)	144.6 (142.5 to 146.8)	142.3 (139.3 to 144.9)
Namibia	Age-standardized	131.4 (130.8 to 132.0)	128.3 (127.6 to 129.1)	132.1 (131.6 to 132.7)	128.1 (127.4 to 128.8)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
South Africa	25-29 years	121.0 (120.4 to 121.7)	117.2 (116.4 to 118.1)	122.9 (122.3 to 123.5)	119.4 (118.6 to 120.2)
South Africa	30-34 years	126.9 (126.2 to 127.6)	120.3 (119.4 to 121.2)	128.6 (127.9 to 129.2)	122.4 (121.6 to 123.1)
South Africa	35-39 years	127.6 (126.9 to 128.3)	122.1 (121.2 to 123.0)	129.3 (128.7 to 130.0)	124.2 (123.4 to 125.0)
South Africa	40-44 years	128.1 (127.4 to 128.8)	125.1 (124.2 to 126.0)	129.8 (129.1 to 130.4)	127.3 (126.6 to 128.1)
South Africa	45-49 years	130.8 (130.1 to 131.5)	128.5 (127.5 to 129.5)	132.6 (132.0 to 133.2)	131.3 (130.5 to 132.0)
South Africa	50-54 years	133.0 (132.3 to 133.7)	131.7 (130.7 to 132.6)	135.0 (134.4 to 135.6)	134.8 (134.1 to 135.5)
South Africa	55-59 years	135.6 (134.9 to 136.3)	134.9 (133.8 to 135.9)	137.5 (136.9 to 138.2)	138.0 (137.3 to 138.8)
South Africa	60-64 years	138.0 (137.2 to 138.7)	138.2 (137.2 to 139.2)	139.7 (139.0 to 140.3)	141.1 (140.4 to 141.9)
South Africa	65-69 years	140.3 (139.6 to 141.1)	142.6 (141.4 to 143.7)	142.0 (141.3 to 142.7)	144.5 (143.7 to 145.4)
South Africa	70-74 years	140.9 (140.1 to 141.6)	144.8 (143.8 to 145.9)	142.0 (141.3 to 142.7)	145.1 (144.1 to 145.9)
South Africa	75-79 years	142.5 (141.8 to 143.2)	146.9 (145.8 to 148.1)	143.3 (142.6 to 144.1)	146.3 (145.3 to 147.4)
South Africa	80+ years	142.0 (141.2 to 142.7)	146.8 (145.8 to 147.9)	142.6 (141.8 to 143.3)	146.4 (145.5 to 147.3)
South Africa	Age-standardized	131.3 (131.0 to 131.5)	129.2 (128.9 to 129.5)	132.9 (132.8 to 133.1)	131.4 (131.1 to 131.6)
Swaziland	25-29 years	119.6 (118.0 to 121.4)	118.4 (116.1 to 120.6)	121.1 (120.0 to 122.3)	115.9 (114.4 to 117.5)
Swaziland	30-34 years	125.2 (123.5 to 127.0)	121.2 (118.9 to 123.6)	124.6 (123.4 to 125.8)	120.7 (118.9 to 122.3)
Swaziland	35-39 years	125.9 (124.1 to 127.7)	123.0 (120.7 to 125.7)	125.3 (124.1 to 126.5)	122.5 (120.9 to 124.1)
Swaziland	40-44 years	126.3 (124.6 to 128.1)	126.0 (123.5 to 128.6)	125.7 (124.5 to 126.9)	125.8 (124.1 to 127.6)
Swaziland	45-49 years	128.9 (127.2 to 130.6)	129.6 (127.1 to 132.3)	131.2 (129.8 to 132.6)	133.8 (131.7 to 135.8)
Swaziland	50-54 years	131.3 (129.5 to 133.1)	132.8 (130.2 to 135.2)	133.8 (132.4 to 135.2)	137.5 (135.4 to 139.6)
Swaziland	55-59 years	133.9 (132.1 to 135.7)	136.1 (133.7 to 138.6)	136.3 (134.8 to 137.8)	140.9 (138.6 to 143.2)
Swaziland	60-64 years	135.9 (134.1 to 137.9)	139.2 (136.4 to 141.9)	138.6 (137.0 to 140.2)	144.0 (141.8 to 146.3)
Swaziland	65-69 years	137.9 (135.9 to 139.8)	142.9 (140.0 to 145.9)	141.1 (139.5 to 142.9)	148.6 (146.2 to 151.1)
Swaziland	70-74 years	138.2 (136.1 to 140.1)	144.0 (141.0 to 146.8)	141.3 (139.4 to 143.3)	149.3 (145.9 to 152.1)
Swaziland	75-79 years	140.3 (138.3 to 142.3)	146.0 (143.0 to 148.9)	143.2 (141.2 to 145.2)	151.0 (147.9 to 154.0)
Swaziland	80+ years	140.4 (138.5 to 142.4)	147.2 (144.0 to 150.4)	143.1 (141.2 to 145.2)	152.4 (149.5 to 155.7)
Swaziland	Age-standardized	129.4 (128.9 to 130.0)	130.0 (129.2 to 130.8)	130.8 (130.4 to 131.2)	132.1 (131.4 to 132.7)
Zimbabwe	25-29 years	118.4 (116.8 to 119.9)	118.1 (115.8 to 120.4)	119.7 (118.1 to 121.4)	117.4 (115.1 to 119.7)
Zimbabwe	30-34 years	123.1 (121.4 to 124.6)	121.3 (119.1 to 123.8)	124.5 (122.8 to 126.4)	120.6 (118.3 to 122.9)
Zimbabwe	35-39 years	123.3 (121.5 to 125.0)	123.8 (121.3 to 126.4)	124.6 (122.9 to 126.4)	123.8 (121.4 to 126.2)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Zimbabwe	40-44 years	124.7 (122.8 to 126.5)	126.9 (124.2 to 129.4)	125.3 (123.4 to 127.1)	127.3 (124.5 to 129.9)
Zimbabwe	45-49 years	127.8 (126.1 to 129.5)	130.0 (127.5 to 132.6)	128.5 (126.8 to 130.4)	133.0 (130.5 to 135.6)
Zimbabwe	50-54 years	131.0 (129.3 to 133.1)	131.7 (129.2 to 134.2)	131.4 (129.5 to 133.4)	136.9 (134.3 to 139.6)
Zimbabwe	55-59 years	134.7 (132.7 to 136.5)	135.6 (132.9 to 138.4)	135.9 (134.0 to 137.8)	141.6 (138.9 to 144.4)
Zimbabwe	60-64 years	137.3 (135.4 to 139.1)	140.9 (138.2 to 143.7)	139.5 (137.7 to 141.5)	144.9 (141.9 to 147.8)
Zimbabwe	65-69 years	139.6 (137.5 to 141.5)	144.7 (141.7 to 147.5)	142.2 (140.3 to 144.1)	148.3 (145.5 to 151.2)
Zimbabwe	70-74 years	139.9 (137.9 to 141.9)	146.4 (143.5 to 149.4)	142.5 (140.6 to 144.5)	148.5 (145.4 to 151.4)
Zimbabwe	75-79 years	142.8 (140.7 to 144.9)	149.8 (147.0 to 152.9)	144.2 (142.2 to 146.1)	149.5 (146.6 to 152.7)
Zimbabwe	80+ years	143.2 (141.1 to 145.2)	151.9 (148.8 to 154.8)	143.6 (141.6 to 145.7)	150.3 (147.3 to 153.4)
Zimbabwe	Age-standardized	128.9 (128.4 to 129.5)	130.7 (130.0 to 131.5)	130.2 (129.6 to 130.8)	132.3 (131.6 to 133.1)
Benin	25-29 years	117.2 (112.3 to 122.9)	115.3 (109.6 to 121.5)	118.2 (113.6 to 122.7)	114.9 (110.4 to 119.7)
Benin	30-34 years	122.7 (117.5 to 128.1)	118.1 (111.9 to 124.4)	125.3 (121.8 to 128.5)	116.6 (113.5 to 119.8)
Benin	35-39 years	123.3 (118.0 to 128.8)	119.7 (113.4 to 126.1)	125.9 (122.2 to 129.5)	118.0 (115.0 to 121.2)
Benin	40-44 years	123.6 (118.3 to 129.2)	122.6 (116.5 to 129.4)	126.3 (122.6 to 130.0)	119.7 (116.6 to 123.1)
Benin	45-49 years	126.2 (120.6 to 131.8)	126.3 (119.9 to 132.9)	126.8 (123.5 to 130.4)	123.2 (119.8 to 127.0)
Benin	50-54 years	128.4 (123.0 to 133.9)	129.4 (122.5 to 136.3)	128.0 (124.5 to 131.7)	129.1 (123.7 to 134.7)
Benin	55-59 years	130.7 (125.2 to 136.7)	132.6 (126.3 to 139.1)	128.2 (124.5 to 132.1)	132.3 (126.5 to 138.5)
Benin	60-64 years	132.2 (126.7 to 138.1)	135.8 (129.1 to 142.7)	132.6 (128.3 to 136.8)	135.3 (130.1 to 141.3)
Benin	65-69 years	134.1 (127.9 to 140.2)	138.1 (130.9 to 145.9)	134.6 (128.7 to 141.1)	137.7 (130.4 to 145.1)
Benin	70-74 years	134.2 (128.3 to 140.0)	139.1 (132.0 to 146.3)	134.6 (128.6 to 140.7)	139.1 (131.3 to 147.0)
Benin	75-79 years	136.6 (130.8 to 142.6)	141.1 (134.0 to 149.0)	136.7 (130.7 to 142.5)	140.9 (133.4 to 148.9)
Benin	80+ years	136.8 (130.6 to 143.5)	142.8 (135.4 to 150.7)	136.9 (130.9 to 143.7)	141.9 (134.3 to 149.3)
Benin	Age-standardized	126.5 (124.8 to 128.1)	126.5 (124.5 to 128.4)	127.5 (126.1 to 128.7)	125.3 (123.9 to 126.7)
Burkina Faso	25-29 years	118.3 (113.4 to 123.8)	113.9 (107.6 to 120.7)	118.9 (117.0 to 120.8)	113.0 (111.1 to 114.7)
Burkina Faso	30-34 years	123.5 (117.8 to 129.1)	116.4 (110.3 to 122.9)	124.5 (122.6 to 126.6)	115.6 (113.9 to 117.6)
Burkina Faso	35-39 years	122.6 (117.2 to 128.2)	117.8 (111.5 to 124.2)	122.9 (120.8 to 124.9)	116.9 (114.5 to 119.4)
Burkina Faso	40-44 years	122.3 (116.7 to 128.3)	120.9 (114.3 to 127.4)	123.2 (121.1 to 125.2)	119.8 (117.6 to 122.2)
Burkina Faso	45-49 years	123.7 (118.0 to 129.0)	125.2 (119.1 to 132.5)	123.9 (121.4 to 126.5)	124.5 (121.3 to 127.8)
Burkina Faso	50-54 years	126.1 (120.5 to 132.3)	128.4 (122.1 to 135.1)	126.3 (123.6 to 128.7)	127.9 (124.8 to 131.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Burkina Faso	55-59 years	131.8 (126.0 to 137.7)	132.2 (124.8 to 139.5)	133.1 (129.5 to 136.8)	131.8 (128.3 to 135.5)
Burkina Faso	60-64 years	134.2 (128.7 to 140.0)	135.7 (128.2 to 142.2)	135.2 (131.5 to 139.0)	134.8 (131.0 to 138.3)
Burkina Faso	65-69 years	135.9 (130.0 to 141.8)	138.1 (130.8 to 145.4)	137.2 (131.3 to 143.6)	137.7 (130.3 to 145.3)
Burkina Faso	70-74 years	136.1 (130.2 to 142.1)	139.0 (131.7 to 146.1)	137.3 (131.4 to 143.1)	138.5 (131.4 to 146.6)
Burkina Faso	75-79 years	138.3 (132.3 to 144.8)	141.0 (133.6 to 148.6)	139.4 (133.2 to 146.2)	140.3 (133.2 to 148.2)
Burkina Faso	80+ years	138.7 (132.4 to 145.3)	142.7 (135.0 to 151.5)	139.3 (133.0 to 145.6)	141.8 (134.1 to 149.8)
Burkina Faso	Age-standardized	126.6 (124.8 to 128.4)	125.4 (123.4 to 127.4)	127.3 (126.4 to 128.3)	124.7 (123.7 to 125.7)
Cameroon	25-29 years	115.1 (111.2 to 118.6)	112.2 (108.2 to 116.8)	122.9 (117.7 to 128.5)	117.1 (111.2 to 123.5)
Cameroon	30-34 years	120.4 (116.6 to 124.1)	114.0 (110.1 to 118.2)	128.7 (123.6 to 134.2)	118.9 (112.7 to 125.1)
Cameroon	35-39 years	121.0 (117.5 to 124.7)	115.7 (111.4 to 120.3)	129.6 (123.6 to 135.5)	120.6 (114.8 to 127.0)
Cameroon	40-44 years	121.3 (117.7 to 125.0)	118.5 (114.0 to 122.9)	129.9 (124.5 to 135.9)	123.4 (117.3 to 129.8)
Cameroon	45-49 years	123.7 (119.9 to 127.7)	120.1 (115.9 to 124.5)	132.4 (126.4 to 137.9)	126.3 (119.9 to 133.2)
Cameroon	50-54 years	126.1 (122.2 to 130.0)	123.2 (119.0 to 127.9)	134.8 (129.2 to 140.6)	129.6 (123.5 to 136.6)
Cameroon	55-59 years	128.2 (124.0 to 132.6)	126.0 (121.0 to 131.0)	133.7 (127.7 to 140.0)	132.9 (126.0 to 140.0)
Cameroon	60-64 years	130.1 (126.3 to 133.7)	128.9 (124.2 to 133.8)	135.3 (129.6 to 141.4)	133.1 (126.4 to 139.9)
Cameroon	65-69 years	132.4 (128.4 to 136.6)	131.5 (126.2 to 137.1)	137.3 (131.8 to 143.0)	135.2 (128.9 to 141.9)
Cameroon	70-74 years	132.0 (127.4 to 136.6)	131.9 (127.0 to 137.1)	134.2 (128.4 to 140.5)	135.6 (128.7 to 142.4)
Cameroon	75-79 years	131.5 (126.8 to 136.5)	134.9 (129.2 to 140.3)	133.2 (127.5 to 139.3)	135.4 (127.9 to 142.9)
Cameroon	80+ years	132.5 (126.4 to 139.0)	135.6 (129.2 to 141.9)	133.4 (127.6 to 139.6)	135.2 (127.7 to 142.3)
Cameroon	Age-standardized	124.1 (123.0 to 125.3)	121.2 (119.8 to 122.7)	131.1 (129.3 to 132.8)	126.1 (124.1 to 128.1)
Cape Verde	25-29 years	128.8 (123.4 to 134.6)	122.5 (116.4 to 129.3)	130.0 (125.3 to 135.0)	122.0 (116.4 to 127.5)
Cape Verde	30-34 years	134.9 (128.8 to 141.2)	125.6 (119.7 to 132.0)	136.0 (131.2 to 141.0)	124.5 (119.0 to 129.9)
Cape Verde	35-39 years	135.7 (129.9 to 141.7)	127.2 (120.5 to 134.2)	136.9 (131.9 to 142.1)	126.3 (121.0 to 131.9)
Cape Verde	40-44 years	135.8 (129.7 to 141.9)	130.5 (124.4 to 137.4)	137.2 (132.5 to 142.5)	129.6 (124.3 to 135.2)
Cape Verde	45-49 years	138.6 (132.7 to 144.5)	134.1 (127.1 to 141.3)	140.0 (135.2 to 145.2)	133.2 (127.8 to 139.1)
Cape Verde	50-54 years	141.3 (135.2 to 147.8)	137.7 (130.3 to 145.2)	142.7 (137.7 to 148.0)	137.0 (131.2 to 142.8)
Cape Verde	55-59 years	144.0 (137.7 to 150.3)	140.9 (133.8 to 148.6)	145.3 (139.9 to 150.8)	140.0 (134.5 to 146.2)
Cape Verde	60-64 years	146.2 (140.0 to 152.6)	144.0 (136.7 to 151.5)	147.4 (142.2 to 153.2)	143.4 (137.2 to 149.8)
Cape Verde	65-69 years	147.6 (140.8 to 154.9)	146.3 (138.8 to 154.2)	148.9 (142.5 to 155.6)	145.7 (138.2 to 153.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Cape Verde	70-74 years	147.9 (141.2 to 154.9)	147.3 (139.1 to 155.4)	149.4 (142.9 to 156.2)	146.6 (138.8 to 154.6)
Cape Verde	75-79 years	150.0 (143.3 to 156.9)	149.6 (141.4 to 157.8)	151.3 (144.9 to 158.4)	148.4 (140.5 to 156.4)
Cape Verde	80+ years	150.2 (143.4 to 157.0)	151.1 (143.2 to 159.2)	151.3 (144.9 to 158.4)	149.8 (142.2 to 157.4)
Cape Verde	Age-standardized	139.2 (137.3 to 141.2)	134.3 (132.2 to 136.6)	140.5 (138.9 to 142.1)	133.5 (131.8 to 135.3)
Chad	25-29 years	118.1 (112.9 to 123.6)	114.0 (108.2 to 120.4)	120.1 (115.6 to 124.9)	114.4 (108.8 to 119.9)
Chad	30-34 years	123.4 (118.0 to 128.5)	116.4 (110.1 to 122.9)	125.8 (120.6 to 131.2)	117.0 (111.4 to 122.9)
Chad	35-39 years	124.1 (118.7 to 129.4)	118.3 (112.0 to 125.0)	126.2 (121.3 to 131.7)	118.6 (112.6 to 124.9)
Chad	40-44 years	124.2 (118.3 to 130.1)	121.2 (114.7 to 127.8)	126.3 (121.0 to 132.0)	121.8 (115.7 to 128.0)
Chad	45-49 years	127.2 (121.8 to 133.0)	124.7 (118.4 to 131.7)	129.1 (123.6 to 134.9)	125.7 (119.3 to 132.5)
Chad	50-54 years	130.4 (124.6 to 136.6)	127.8 (121.0 to 134.3)	132.0 (126.4 to 138.2)	129.2 (122.9 to 136.0)
Chad	55-59 years	133.3 (127.6 to 139.4)	131.7 (124.6 to 138.6)	134.7 (128.6 to 140.9)	132.7 (125.8 to 139.7)
Chad	60-64 years	135.4 (129.7 to 141.3)	134.7 (127.6 to 141.7)	137.2 (130.8 to 143.0)	135.8 (128.7 to 142.8)
Chad	65-69 years	137.5 (131.1 to 143.7)	137.5 (130.1 to 145.9)	139.0 (133.2 to 145.7)	138.3 (131.4 to 145.7)
Chad	70-74 years	137.9 (132.3 to 143.8)	138.5 (131.0 to 145.9)	139.3 (133.1 to 146.2)	139.1 (132.0 to 146.4)
Chad	75-79 years	140.6 (133.9 to 146.8)	141.4 (134.2 to 149.4)	141.0 (134.6 to 147.4)	140.8 (133.1 to 148.6)
Chad	80+ years	141.7 (135.4 to 148.5)	143.5 (136.0 to 151.2)	141.0 (134.7 to 147.4)	141.8 (134.5 to 149.5)
Chad	Age-standardized	128.3 (126.5 to 129.9)	125.3 (123.3 to 127.3)	130.0 (128.4 to 131.8)	125.9 (124.0 to 127.7)
Cote d'Ivoire	25-29 years	122.4 (117.2 to 127.8)	117.6 (111.3 to 124.4)	123.6 (118.6 to 129.1)	117.8 (112.0 to 123.9)
Cote d'Ivoire	30-34 years	128.0 (122.8 to 133.8)	120.3 (113.7 to 126.8)	128.9 (123.4 to 134.2)	120.5 (114.7 to 126.6)
Cote d'Ivoire	35-39 years	128.1 (122.8 to 134.3)	123.6 (117.7 to 130.9)	129.0 (123.7 to 134.2)	123.4 (116.7 to 130.1)
Cote d'Ivoire	40-44 years	128.8 (122.9 to 134.3)	126.7 (120.0 to 133.9)	129.7 (124.2 to 135.9)	126.9 (120.4 to 133.5)
Cote d'Ivoire	45-49 years	135.9 (129.9 to 142.0)	131.0 (124.3 to 137.6)	135.9 (130.2 to 141.9)	130.9 (123.9 to 138.1)
Cote d'Ivoire	50-54 years	139.3 (133.4 to 145.5)	134.5 (127.2 to 141.7)	139.2 (133.6 to 145.3)	135.1 (128.4 to 142.2)
Cote d'Ivoire	55-59 years	142.7 (136.2 to 149.1)	138.4 (130.6 to 145.7)	142.1 (135.8 to 148.2)	138.7 (131.4 to 146.2)
Cote d'Ivoire	60-64 years	145.0 (138.8 to 152.2)	141.7 (134.4 to 149.1)	145.1 (138.5 to 151.4)	142.1 (134.5 to 149.7)
Cote d'Ivoire	65-69 years	146.8 (140.4 to 153.5)	144.3 (137.0 to 152.4)	147.0 (140.5 to 153.2)	144.4 (137.2 to 152.2)
Cote d'Ivoire	70-74 years	147.1 (140.9 to 153.8)	145.3 (138.2 to 153.5)	147.8 (140.8 to 154.7)	145.6 (137.4 to 153.3)
Cote d'Ivoire	75-79 years	149.5 (142.5 to 156.9)	147.9 (139.9 to 155.3)	150.0 (143.3 to 156.7)	147.3 (139.3 to 155.1)
Cote d'Ivoire	80+ years	150.2 (143.5 to 157.4)	149.8 (142.0 to 158.2)	149.5 (143.0 to 156.7)	148.5 (140.5 to 156.7)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Cote d'Ivoire	Age-standardized	135.1 (133.2 to 137.0)	130.9 (128.8 to 132.9)	135.5 (133.7 to 137.4)	131.0 (129.0 to 132.9)
The Gambia	25-29 years	122.1 (118.0 to 126.0)	117.0 (112.8 to 121.4)	125.4 (121.5 to 129.8)	120.7 (115.3 to 126.2)
The Gambia	30-34 years	127.5 (123.4 to 132.0)	119.0 (114.3 to 123.4)	131.4 (127.4 to 135.8)	123.5 (118.6 to 128.7)
The Gambia	35-39 years	127.6 (123.6 to 131.5)	121.3 (117.0 to 126.1)	132.0 (127.5 to 136.6)	125.2 (119.8 to 130.6)
The Gambia	40-44 years	126.8 (122.5 to 131.2)	124.5 (119.8 to 129.3)	132.2 (127.8 to 137.1)	128.7 (123.4 to 134.4)
The Gambia	45-49 years	129.9 (126.2 to 133.8)	129.2 (124.8 to 134.6)	134.9 (130.4 to 139.6)	132.1 (126.6 to 137.8)
The Gambia	50-54 years	132.6 (128.2 to 136.9)	132.8 (127.6 to 138.0)	137.7 (133.2 to 142.1)	135.9 (130.8 to 141.8)
The Gambia	55-59 years	135.6 (131.3 to 139.9)	137.4 (131.8 to 143.1)	140.1 (135.6 to 144.9)	139.1 (133.9 to 145.1)
The Gambia	60-64 years	137.4 (133.0 to 141.6)	139.9 (134.6 to 145.6)	142.2 (137.6 to 146.6)	142.3 (136.7 to 148.1)
The Gambia	65-69 years	141.0 (136.8 to 145.4)	143.9 (138.1 to 149.8)	142.9 (136.5 to 149.4)	144.9 (136.9 to 152.9)
The Gambia	70-74 years	140.9 (136.3 to 145.4)	143.6 (137.6 to 150.0)	143.2 (136.9 to 149.4)	145.3 (137.6 to 152.9)
The Gambia	75-79 years	145.3 (140.3 to 150.7)	147.5 (141.8 to 153.8)	147.3 (141.0 to 154.2)	148.9 (141.1 to 156.8)
The Gambia	80+ years	148.8 (142.9 to 155.1)	153.1 (146.2 to 159.9)	148.8 (142.9 to 155.6)	152.5 (145.0 to 160.6)
The Gambia	Age-standardized	131.5 (130.3 to 132.9)	129.6 (128.1 to 131.2)	135.5 (134.1 to 137.1)	132.6 (130.9 to 134.4)
Ghana	25-29 years	121.8 (117.6 to 126.0)	119.1 (113.6 to 124.5)	118.7 (113.4 to 124.2)	120.1 (114.7 to 125.5)
Ghana	30-34 years	127.4 (123.0 to 131.8)	121.9 (116.4 to 128.0)	120.9 (118.0 to 123.9)	117.4 (113.4 to 121.6)
Ghana	35-39 years	128.4 (124.0 to 133.3)	122.9 (117.5 to 128.9)	122.2 (119.3 to 125.1)	119.6 (115.3 to 123.9)
Ghana	40-44 years	128.8 (124.4 to 133.3)	126.7 (120.9 to 132.2)	123.9 (120.4 to 126.9)	124.0 (120.0 to 128.5)
Ghana	45-49 years	131.4 (126.8 to 136.0)	130.2 (124.3 to 136.2)	126.1 (122.9 to 129.2)	128.6 (124.0 to 133.1)
Ghana	50-54 years	133.6 (128.8 to 138.1)	134.2 (127.9 to 140.4)	129.0 (125.6 to 132.4)	137.0 (131.8 to 142.7)
Ghana	55-59 years	136.3 (131.5 to 141.1)	137.0 (130.8 to 143.7)	131.3 (127.7 to 135.2)	140.6 (134.5 to 146.6)
Ghana	60-64 years	138.1 (133.1 to 143.3)	140.1 (133.8 to 146.4)	137.1 (132.1 to 142.5)	141.6 (135.0 to 148.4)
Ghana	65-69 years	140.5 (135.7 to 145.4)	143.3 (136.7 to 150.0)	139.7 (134.4 to 145.4)	144.8 (138.2 to 151.8)
Ghana	70-74 years	140.2 (135.1 to 145.3)	142.8 (135.8 to 150.2)	140.3 (135.2 to 145.7)	142.4 (136.0 to 149.3)
Ghana	75-79 years	141.5 (136.3 to 146.9)	144.2 (137.4 to 151.1)	140.3 (134.6 to 145.9)	143.1 (136.3 to 149.9)
Ghana	80+ years	140.8 (136.3 to 146.0)	145.0 (137.8 to 151.8)	138.4 (133.0 to 143.7)	143.8 (137.1 to 151.1)
Ghana	Age-standardized	131.7 (130.2 to 133.1)	130.4 (128.5 to 132.3)	127.6 (126.4 to 128.9)	129.8 (128.1 to 131.3)
Guinea	25-29 years	121.4 (115.8 to 127.3)	118.2 (111.3 to 125.2)	123.1 (118.0 to 128.4)	119.8 (114.1 to 125.8)
Guinea	30-34 years	124.9 (119.4 to 130.6)	118.0 (111.7 to 124.3)	128.0 (122.7 to 133.2)	121.7 (115.7 to 127.9)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Guinea	35-39 years	123.7 (118.7 to 128.8)	118.1 (112.0 to 124.3)	127.0 (121.4 to 132.3)	121.3 (115.7 to 127.3)
Guinea	40-44 years	124.0 (118.6 to 129.4)	120.9 (114.2 to 127.5)	127.1 (122.0 to 132.4)	124.3 (117.8 to 130.5)
Guinea	45-49 years	126.8 (121.1 to 132.3)	124.5 (118.2 to 131.3)	129.9 (124.4 to 135.8)	128.1 (121.4 to 134.5)
Guinea	50-54 years	129.1 (123.2 to 134.8)	127.7 (120.9 to 134.9)	132.2 (126.5 to 138.0)	131.6 (124.9 to 138.1)
Guinea	55-59 years	131.7 (126.0 to 137.7)	131.2 (124.2 to 137.6)	134.7 (129.3 to 140.5)	134.9 (128.8 to 141.6)
Guinea	60-64 years	133.6 (128.0 to 139.2)	134.0 (127.1 to 141.6)	137.0 (131.4 to 143.0)	138.0 (131.1 to 144.5)
Guinea	65-69 years	136.0 (130.3 to 142.1)	137.2 (130.5 to 144.0)	137.4 (131.4 to 143.9)	138.5 (131.1 to 146.2)
Guinea	70-74 years	135.9 (130.1 to 141.8)	138.0 (130.9 to 145.5)	137.0 (130.6 to 143.4)	138.6 (132.1 to 145.4)
Guinea	75-79 years	138.6 (132.6 to 144.5)	142.7 (136.1 to 150.1)	139.1 (132.6 to 145.7)	142.3 (135.3 to 149.6)
Guinea	80+ years	140.0 (133.4 to 146.1)	143.5 (136.2 to 150.6)	139.2 (133.1 to 145.6)	142.1 (134.7 to 149.6)
Guinea	Age-standardized	128.1 (126.3 to 129.9)	125.9 (123.7 to 127.9)	130.6 (129.1 to 132.4)	128.6 (126.6 to 130.4)
Guinea-Bissau	25-29 years	120.1 (114.8 to 125.8)	116.5 (110.6 to 122.3)	122.4 (117.2 to 127.8)	118.2 (112.4 to 125.1)
Guinea-Bissau	30-34 years	125.0 (119.7 to 130.6)	118.8 (112.7 to 125.4)	127.2 (121.9 to 133.2)	120.7 (114.0 to 127.5)
Guinea-Bissau	35-39 years	125.5 (120.0 to 131.1)	120.9 (115.1 to 127.2)	127.6 (122.1 to 133.3)	122.1 (115.7 to 129.2)
Guinea-Bissau	40-44 years	125.6 (120.2 to 131.4)	124.0 (117.7 to 130.8)	127.9 (121.8 to 133.8)	125.4 (118.9 to 132.4)
Guinea-Bissau	45-49 years	128.8 (123.1 to 134.6)	127.9 (121.2 to 134.7)	130.8 (125.2 to 136.6)	129.8 (122.6 to 137.2)
Guinea-Bissau	50-54 years	131.5 (125.6 to 137.6)	131.1 (124.2 to 138.1)	133.4 (127.8 to 139.6)	134.0 (126.8 to 141.3)
Guinea-Bissau	55-59 years	134.1 (127.9 to 140.3)	135.3 (128.7 to 142.7)	135.9 (129.5 to 142.5)	137.4 (130.3 to 145.0)
Guinea-Bissau	60-64 years	136.4 (130.3 to 142.9)	138.6 (131.3 to 145.6)	138.9 (133.1 to 145.5)	140.6 (133.5 to 148.1)
Guinea-Bissau	65-69 years	139.2 (132.8 to 145.7)	142.0 (134.3 to 149.6)	140.9 (134.9 to 147.1)	144.1 (136.6 to 151.7)
Guinea-Bissau	70-74 years	139.7 (133.4 to 146.0)	142.7 (134.8 to 150.3)	141.6 (134.4 to 148.7)	144.7 (137.3 to 152.8)
Guinea-Bissau	75-79 years	143.2 (137.1 to 150.0)	146.8 (139.4 to 154.5)	143.5 (137.3 to 149.7)	146.6 (138.8 to 154.7)
Guinea-Bissau	80+ years	145.0 (138.8 to 151.6)	149.1 (141.5 to 157.3)	143.1 (136.7 to 149.8)	147.5 (139.5 to 155.0)
Guinea-Bissau	Age-standardized	129.8 (128.1 to 131.6)	128.6 (126.6 to 130.6)	131.7 (130.0 to 133.8)	130.2 (128.1 to 132.4)
Liberia	25-29 years	123.5 (118.0 to 128.8)	119.2 (113.1 to 125.7)	124.1 (121.2 to 127.1)	119.6 (116.4 to 122.9)
Liberia	30-34 years	129.3 (123.6 to 135.2)	122.2 (116.0 to 129.4)	129.9 (126.8 to 133.0)	122.5 (119.3 to 125.8)
Liberia	35-39 years	129.8 (124.1 to 135.9)	123.7 (117.1 to 130.4)	130.8 (127.7 to 133.8)	124.1 (121.1 to 127.4)
Liberia	40-44 years	130.2 (124.4 to 136.4)	126.9 (120.2 to 133.6)	131.1 (128.0 to 134.0)	127.2 (123.6 to 130.8)
Liberia	45-49 years	133.0 (127.0 to 139.2)	130.4 (124.1 to 137.5)	133.7 (130.4 to 137.1)	130.8 (127.6 to 134.3)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Liberia	50-54 years	135.4 (129.5 to 141.6)	133.8 (126.8 to 140.5)	136.2 (133.0 to 139.3)	134.3 (130.6 to 138.2)
Liberia	55-59 years	137.9 (131.4 to 144.1)	137.0 (129.9 to 144.5)	138.8 (135.6 to 142.0)	137.4 (133.9 to 141.0)
Liberia	60-64 years	140.1 (134.0 to 146.3)	140.4 (133.6 to 147.6)	140.8 (137.6 to 144.1)	140.4 (136.6 to 144.3)
Liberia	65-69 years	141.8 (135.4 to 148.3)	142.7 (135.0 to 151.1)	142.4 (135.8 to 148.8)	142.9 (135.7 to 150.4)
Liberia	70-74 years	141.9 (134.7 to 148.1)	143.8 (136.3 to 151.7)	142.4 (135.9 to 148.8)	143.9 (136.2 to 151.7)
Liberia	75-79 years	144.3 (138.2 to 150.7)	145.7 (137.7 to 154.1)	144.7 (138.2 to 151.6)	145.7 (138.4 to 153.7)
Liberia	80+ years	144.5 (137.8 to 151.1)	147.4 (139.7 to 155.7)	144.4 (137.7 to 151.2)	147.2 (138.9 to 155.9)
Liberia	Age-standardized	133.5 (131.6 to 135.2)	130.7 (128.6 to 132.9)	134.1 (133.1 to 135.3)	131.0 (129.9 to 132.3)
Mali	25-29 years	113.4 (108.3 to 118.6)	118.1 (112.0 to 124.4)	114.6 (109.9 to 119.1)	123.4 (117.4 to 129.9)
Mali	30-34 years	118.4 (113.2 to 123.8)	120.1 (113.7 to 126.6)	119.9 (115.0 to 124.6)	125.7 (119.5 to 132.6)
Mali	35-39 years	119.2 (114.0 to 124.4)	119.0 (113.0 to 125.2)	120.6 (115.9 to 125.7)	121.0 (114.8 to 127.7)
Mali	40-44 years	119.3 (114.2 to 124.8)	121.5 (114.7 to 128.4)	121.3 (116.3 to 126.1)	122.8 (116.8 to 129.3)
Mali	45-49 years	122.1 (116.7 to 127.5)	124.9 (118.2 to 131.7)	124.1 (118.7 to 129.4)	126.3 (119.7 to 132.7)
Mali	50-54 years	124.3 (118.5 to 130.3)	128.1 (121.7 to 135.6)	126.5 (121.1 to 131.8)	130.0 (123.4 to 136.8)
Mali	55-59 years	127.1 (121.4 to 132.8)	131.3 (124.6 to 138.5)	129.1 (123.4 to 134.6)	133.5 (126.7 to 140.6)
Mali	60-64 years	128.9 (123.2 to 134.8)	134.6 (127.6 to 142.1)	131.5 (125.8 to 137.5)	136.7 (130.0 to 144.1)
Mali	65-69 years	131.3 (125.3 to 137.7)	137.5 (130.0 to 145.1)	133.2 (127.1 to 139.6)	139.0 (131.7 to 147.2)
Mali	70-74 years	131.5 (125.7 to 137.2)	138.5 (131.1 to 145.7)	133.1 (127.7 to 139.0)	139.5 (132.0 to 146.8)
Mali	75-79 years	134.6 (128.7 to 140.4)	141.3 (133.1 to 149.1)	135.0 (129.0 to 141.3)	141.3 (133.5 to 148.9)
Mali	80+ years	135.8 (129.7 to 141.6)	143.3 (135.1 to 151.1)	135.2 (129.4 to 141.7)	142.7 (135.7 to 150.2)
Mali	Age-standardized	122.8 (121.2 to 124.5)	126.4 (124.4 to 128.6)	124.5 (122.9 to 126.0)	128.9 (126.8 to 131.3)
Mauritania	25-29 years	121.0 (115.5 to 126.5)	116.0 (110.3 to 122.2)	122.4 (116.9 to 127.9)	116.3 (110.5 to 122.4)
Mauritania	30-34 years	126.0 (120.8 to 131.7)	119.1 (113.1 to 125.4)	127.5 (121.8 to 133.5)	118.8 (112.9 to 125.7)
Mauritania	35-39 years	126.7 (123.1 to 129.9)	122.2 (118.6 to 126.1)	126.9 (121.4 to 132.3)	121.5 (115.2 to 128.3)
Mauritania	40-44 years	126.9 (123.5 to 130.2)	125.4 (121.5 to 129.1)	126.9 (121.1 to 132.7)	126.4 (119.7 to 133.5)
Mauritania	45-49 years	129.5 (126.3 to 133.0)	129.0 (125.2 to 133.1)	129.0 (123.7 to 135.0)	131.4 (124.4 to 138.6)
Mauritania	50-54 years	132.0 (128.6 to 135.4)	132.4 (128.7 to 136.2)	131.9 (125.7 to 138.0)	135.4 (127.7 to 142.0)
Mauritania	55-59 years	134.5 (131.1 to 138.0)	135.5 (131.6 to 139.2)	135.3 (129.3 to 141.3)	138.3 (131.0 to 145.8)
Mauritania	60-64 years	136.5 (133.1 to 140.0)	138.6 (134.8 to 142.8)	138.2 (131.9 to 144.3)	140.5 (133.3 to 148.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Mauritania	65-69 years	138.5 (132.3 to 144.7)	141.2 (134.2 to 149.1)	140.0 (133.8 to 146.3)	143.1 (136.1 to 150.8)
Mauritania	70-74 years	139.0 (132.9 to 144.9)	141.9 (134.3 to 149.8)	140.2 (133.4 to 146.9)	144.0 (136.5 to 152.3)
Mauritania	75-79 years	141.8 (135.3 to 148.2)	144.5 (137.3 to 152.2)	142.3 (136.6 to 148.6)	145.7 (138.4 to 153.5)
Mauritania	80+ years	142.7 (136.4 to 149.7)	146.6 (138.7 to 154.1)	141.9 (135.8 to 148.2)	146.9 (139.1 to 154.6)
Mauritania	Age-standardized	130.3 (128.9 to 131.8)	128.8 (127.3 to 130.4)	131.0 (129.2 to 132.8)	130.0 (128.0 to 132.1)
Niger	25-29 years	120.0 (114.7 to 125.9)	116.7 (110.6 to 123.0)	121.9 (116.7 to 127.7)	118.7 (112.7 to 125.2)
Niger	30-34 years	124.8 (119.4 to 130.6)	119.1 (112.8 to 126.0)	126.4 (120.7 to 131.9)	121.0 (114.9 to 127.6)
Niger	35-39 years	125.1 (119.1 to 130.8)	120.8 (114.4 to 127.1)	126.7 (121.0 to 132.4)	122.5 (116.0 to 129.4)
Niger	40-44 years	125.1 (119.5 to 131.2)	124.1 (117.4 to 130.7)	127.2 (121.5 to 133.1)	125.8 (118.7 to 132.9)
Niger	45-49 years	128.5 (122.9 to 134.3)	128.1 (121.3 to 135.8)	129.8 (124.3 to 135.7)	130.0 (123.0 to 137.3)
Niger	50-54 years	131.1 (125.5 to 137.1)	131.4 (124.3 to 138.7)	132.3 (126.0 to 138.3)	134.4 (127.6 to 141.8)
Niger	55-59 years	133.8 (128.0 to 139.7)	135.5 (127.9 to 142.7)	135.0 (128.9 to 141.0)	137.9 (131.0 to 145.0)
Niger	60-64 years	135.7 (129.9 to 141.5)	139.0 (131.8 to 146.6)	137.9 (131.5 to 144.4)	141.3 (133.7 to 149.0)
Niger	65-69 years	138.7 (132.3 to 145.2)	142.8 (135.3 to 150.5)	140.0 (134.3 to 146.7)	144.7 (136.6 to 152.6)
Niger	70-74 years	139.3 (133.0 to 145.8)	143.0 (136.0 to 150.8)	140.6 (134.5 to 146.7)	145.5 (137.8 to 153.6)
Niger	75-79 years	142.8 (136.7 to 149.9)	147.3 (139.4 to 154.7)	142.4 (136.5 to 148.9)	147.5 (139.7 to 155.4)
Niger	80+ years	144.7 (138.4 to 151.4)	149.8 (142.1 to 157.6)	142.1 (135.5 to 148.8)	148.4 (140.6 to 156.7)
Niger	Age-standardized	129.5 (127.8 to 131.2)	128.8 (126.6 to 130.8)	130.9 (129.1 to 132.6)	130.7 (128.6 to 132.9)
Nigeria	25-29 years	115.1 (110.7 to 119.5)	112.1 (107.3 to 117.4)	121.4 (117.9 to 125.1)	117.0 (112.9 to 121.0)
Nigeria	30-34 years	119.4 (115.1 to 123.9)	114.5 (109.8 to 119.5)	127.0 (123.2 to 131.1)	119.6 (115.8 to 123.7)
Nigeria	35-39 years	120.3 (116.0 to 125.0)	116.0 (111.2 to 121.1)	128.5 (124.8 to 132.4)	120.9 (117.3 to 125.1)
Nigeria	40-44 years	120.6 (116.0 to 125.1)	119.1 (114.3 to 124.3)	128.2 (124.4 to 132.3)	123.9 (119.7 to 128.2)
Nigeria	45-49 years	123.1 (118.8 to 127.5)	122.4 (117.3 to 127.6)	131.2 (127.1 to 135.0)	127.2 (122.9 to 131.5)
Nigeria	50-54 years	125.4 (120.8 to 130.0)	125.3 (120.0 to 130.8)	133.7 (129.8 to 137.7)	130.5 (126.1 to 135.0)
Nigeria	55-59 years	128.5 (123.8 to 133.4)	128.3 (123.1 to 133.5)	135.0 (130.9 to 139.3)	133.1 (128.5 to 137.5)
Nigeria	60-64 years	130.9 (126.3 to 135.6)	131.8 (126.0 to 137.7)	138.9 (134.5 to 143.6)	137.9 (132.9 to 142.8)
Nigeria	65-69 years	132.6 (127.9 to 138.1)	134.7 (129.5 to 140.5)	142.8 (138.0 to 147.9)	141.9 (136.1 to 147.0)
Nigeria	70-74 years	132.4 (127.3 to 137.8)	135.1 (129.8 to 140.7)	144.8 (139.5 to 150.4)	144.1 (138.7 to 149.6)
Nigeria	75-79 years	133.3 (128.7 to 138.2)	136.1 (130.5 to 142.0)	146.7 (141.4 to 151.8)	145.5 (140.0 to 151.1)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Nigeria	80+ years	135.0 (128.5 to 140.9)	139.8 (132.5 to 147.2)	152.5 (146.4 to 159.1)	152.6 (145.1 to 159.7)
Nigeria	Age-standardized	123.9 (122.5 to 125.3)	122.7 (121.1 to 124.3)	132.4 (131.2 to 133.7)	128.5 (127.1 to 129.8)
Sao Tome and Principe	25-29 years	129.2 (123.6 to 135.0)	125.4 (119.0 to 131.6)	130.2 (126.0 to 134.1)	125.2 (120.3 to 130.1)
Sao Tome and Principe	30-34 years	135.1 (128.8 to 140.9)	128.3 (121.4 to 135.3)	136.2 (131.9 to 140.8)	128.1 (123.1 to 132.9)
Sao Tome and Principe	35-39 years	135.8 (129.3 to 141.8)	130.3 (123.6 to 137.1)	137.1 (132.6 to 141.7)	129.8 (124.8 to 135.0)
Sao Tome and Principe	40-44 years	136.2 (130.5 to 142.2)	133.4 (126.3 to 141.1)	137.2 (132.9 to 141.5)	133.0 (127.9 to 138.7)
Sao Tome and Principe	45-49 years	139.1 (132.9 to 145.5)	137.1 (130.3 to 144.7)	140.1 (135.6 to 144.8)	137.1 (131.8 to 142.8)
Sao Tome and Principe	50-54 years	141.8 (135.4 to 148.5)	140.4 (132.9 to 147.6)	142.7 (138.3 to 147.7)	140.7 (135.2 to 146.2)
Sao Tome and Principe	55-59 years	144.2 (138.2 to 150.6)	144.0 (136.5 to 151.9)	145.3 (140.7 to 150.2)	144.0 (138.5 to 149.8)
Sao Tome and Principe	60-64 years	146.5 (140.1 to 153.0)	147.4 (139.4 to 155.4)	147.5 (142.7 to 152.6)	147.2 (141.4 to 152.9)
Sao Tome and Principe	65-69 years	147.9 (141.3 to 154.7)	149.2 (141.1 to 157.7)	148.7 (142.1 to 156.2)	149.2 (140.7 to 157.5)
Sao Tome and Principe	70-74 years	148.3 (141.7 to 155.4)	150.4 (142.5 to 159.0)	149.3 (143.0 to 156.4)	150.1 (142.2 to 158.2)
Sao Tome and Principe	75-79 years	150.4 (143.7 to 157.2)	152.5 (145.0 to 160.2)	151.2 (144.5 to 158.0)	152.1 (144.1 to 160.6)
Sao Tome and Principe	80+ years	150.6 (143.6 to 157.4)	154.1 (146.1 to 162.8)	151.1 (144.1 to 158.1)	153.6 (145.7 to 161.7)
Sao Tome and Principe	Age-standardized	139.5 (137.6 to 141.4)	137.3 (135.2 to 139.6)	140.5 (139.0 to 141.9)	137.1 (135.4 to 138.9)
Senegal	25-29 years	119.4 (114.1 to 124.6)	117.1 (110.7 to 123.9)	122.5 (117.8 to 127.4)	120.3 (115.1 to 125.9)
Senegal	30-34 years	125.2 (119.8 to 130.7)	120.0 (113.3 to 126.2)	128.0 (123.3 to 133.1)	123.0 (117.6 to 128.8)
Senegal	35-39 years	126.0 (120.6 to 131.5)	122.3 (115.6 to 128.9)	128.8 (124.0 to 134.0)	124.9 (119.2 to 130.5)
Senegal	40-44 years	127.1 (121.9 to 132.9)	125.9 (119.6 to 132.7)	129.6 (124.6 to 134.4)	128.5 (122.9 to 134.5)
Senegal	45-49 years	130.4 (124.7 to 136.3)	129.9 (123.2 to 136.5)	132.4 (127.8 to 137.7)	132.9 (127.7 to 138.8)
Senegal	50-54 years	136.4 (130.2 to 142.6)	134.8 (127.8 to 142.6)	136.9 (131.6 to 142.6)	137.3 (131.5 to 143.2)
Senegal	55-59 years	139.6 (133.9 to 145.5)	138.3 (131.4 to 145.8)	139.4 (134.0 to 144.7)	140.6 (134.4 to 147.2)
Senegal	60-64 years	141.9 (135.3 to 147.9)	141.6 (134.2 to 149.6)	141.9 (136.8 to 147.5)	143.8 (137.7 to 149.8)
Senegal	65-69 years	145.0 (138.7 to 152.1)	145.0 (137.0 to 152.9)	145.2 (138.7 to 151.2)	147.5 (141.4 to 153.9)
Senegal	70-74 years	145.2 (138.9 to 151.9)	145.6 (138.2 to 153.7)	146.0 (139.6 to 152.5)	148.2 (142.1 to 154.7)
Senegal	75-79 years	147.1 (140.6 to 153.6)	148.0 (140.2 to 156.4)	147.2 (140.4 to 154.4)	149.4 (143.2 to 155.9)
Senegal	80+ years	147.7 (141.2 to 154.3)	147.4 (139.3 to 156.0)	146.7 (140.1 to 153.3)	147.1 (139.6 to 155.3)
Senegal	Age-standardized	132.2 (130.5 to 134.0)	130.4 (128.2 to 132.6)	133.8 (132.3 to 135.4)	133.0 (131.2 to 134.8)
Sierra Leone	25-29 years	121.9 (116.9 to 126.9)	119.3 (113.7 to 124.8)	124.1 (118.4 to 129.6)	120.1 (113.9 to 126.4)

eTable 2. Mean systolic blood pressure (mm Hg) by sex and by age in 1990 and 2015 for all countries. Numbers in parentheses are 95% uncertainty intervals. (continued)

	Age	1990		2015	
		Male	Female	Male	Female
Sierra Leone	30-34 years	127.0 (121.1 to 132.5)	122.1 (116.4 to 127.9)	129.3 (123.6 to 135.0)	122.7 (116.7 to 129.0)
Sierra Leone	35-39 years	127.5 (122.1 to 132.7)	125.7 (119.6 to 131.9)	129.9 (124.0 to 135.5)	124.9 (118.3 to 131.8)
Sierra Leone	40-44 years	127.9 (122.8 to 133.1)	129.1 (122.9 to 135.2)	130.2 (124.5 to 136.4)	128.3 (121.4 to 135.5)
Sierra Leone	45-49 years	133.6 (127.9 to 139.6)	133.7 (126.4 to 140.8)	134.0 (128.5 to 139.9)	132.8 (126.2 to 140.2)
Sierra Leone	50-54 years	136.2 (130.3 to 142.6)	137.2 (130.2 to 144.0)	136.7 (131.1 to 142.7)	136.6 (129.4 to 144.3)
Sierra Leone	55-59 years	138.1 (132.1 to 144.2)	142.1 (135.0 to 148.9)	138.9 (132.8 to 144.8)	140.7 (133.5 to 148.1)
Sierra Leone	60-64 years	140.0 (133.7 to 146.4)	145.5 (137.7 to 153.3)	141.4 (135.2 to 148.3)	143.7 (136.6 to 151.5)
Sierra Leone	65-69 years	143.4 (137.2 to 150.0)	147.7 (139.8 to 155.9)	144.2 (137.5 to 151.1)	147.4 (139.6 to 155.6)
Sierra Leone	70-74 years	143.8 (137.0 to 150.5)	148.6 (140.7 to 156.2)	144.9 (138.6 to 152.0)	148.5 (140.3 to 156.9)
Sierra Leone	75-79 years	146.2 (139.3 to 153.3)	150.8 (143.2 to 158.6)	146.8 (140.3 to 153.9)	150.2 (142.1 to 158.6)
Sierra Leone	80+ years	147.0 (140.6 to 153.6)	152.8 (144.5 to 160.8)	146.6 (139.8 to 153.9)	151.5 (143.9 to 160.4)
Sierra Leone	Age-standardized	132.9 (131.0 to 134.6)	133.5 (131.4 to 135.6)	134.4 (132.7 to 136.1)	133.0 (130.9 to 135.2)
Togo	25-29 years	120.1 (114.9 to 125.5)	114.5 (108.4 to 120.5)	120.9 (117.1 to 125.1)	114.6 (110.7 to 118.9)
Togo	30-34 years	126.0 (120.7 to 131.7)	118.2 (112.1 to 124.3)	127.1 (123.2 to 131.1)	118.0 (113.9 to 122.1)
Togo	35-39 years	126.0 (120.5 to 131.5)	119.9 (113.9 to 126.8)	126.9 (122.7 to 130.9)	120.6 (116.3 to 125.2)
Togo	40-44 years	126.3 (121.0 to 131.9)	123.6 (117.3 to 130.1)	127.0 (123.0 to 131.1)	123.7 (119.6 to 128.4)
Togo	45-49 years	129.6 (124.0 to 135.5)	129.5 (122.7 to 136.6)	130.5 (126.7 to 134.6)	130.3 (125.5 to 135.0)
Togo	50-54 years	131.1 (125.5 to 137.5)	133.0 (126.4 to 140.6)	132.4 (128.2 to 136.7)	134.1 (129.3 to 139.0)
Togo	55-59 years	132.9 (127.4 to 138.3)	135.6 (128.6 to 143.1)	134.4 (129.6 to 139.1)	136.3 (131.3 to 141.3)
Togo	60-64 years	136.5 (130.3 to 142.7)	139.8 (132.6 to 148.1)	138.7 (134.3 to 143.0)	140.7 (135.8 to 145.6)
Togo	65-69 years	142.3 (135.9 to 149.0)	144.7 (137.1 to 152.4)	144.2 (139.1 to 149.6)	146.7 (141.0 to 152.6)
Togo	70-74 years	143.9 (137.7 to 150.6)	146.7 (138.9 to 154.5)	145.8 (140.8 to 151.1)	148.2 (142.9 to 153.8)
Togo	75-79 years	146.6 (140.5 to 153.1)	149.0 (141.3 to 156.8)	147.8 (142.5 to 152.7)	149.7 (143.8 to 155.1)
Togo	80+ years	147.6 (141.2 to 154.6)	151.0 (143.3 to 159.4)	147.8 (142.1 to 153.9)	150.7 (145.0 to 156.8)
Togo	Age-standardized	130.6 (128.8 to 132.5)	129.0 (126.9 to 131.0)	131.8 (130.6 to 133.1)	129.6 (128.2 to 131.0)

Table 3. Estimated number of deaths and disability-adjusted life years (DALYs) in thousands related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined, ages ≥25, and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty intervals. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than 15 years, and the total fertility rate. SDI=Socio-demographic Index.

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)
Global	7,191.1	147,625.5	10,703.8	211,816.4	5,190.8	95,899.8	7,834.4	143,037.0
(6,493.5 to 7,852.1)	(134,192.1 to 161,520.3)	(9,601.3 to 11,787.5)	(192,712.1 to 231,114.4)	(4,640.9 to 5,731.0)	(86,961.6 to 104,855.7)	(6,972.5 to 8,705.7)	(130,197.6 to 156,960.8)	
2,637.2	44,868.2	2,573.0	39,221.2	2,197.4	35,298.7	1,955.6	27,959.7	
High SDI	(2,319.5 to 2,916.8)	(40,877.8 to 48,613.5)	(2,222.8 to 2,896.1)	(35,078.7 to 42,911.1)	(1,924.4 to 2,453.0)	(31,823.5 to 38,397.1)	(1,680.2 to 2,218.6)	(24,936.0 to 30,846.3)
1,815.9	37,056.4	2,844.5	58,365.0	1,288.2	23,807.0	2,175.5	38,515.7	
High-middle SDI	(1,634.4 to 1,996.3)	(33,593.8 to 40,590.2)	(2,528.5 to 3,128.3)	(48,948.0 to 58,642.2)	(1,155.2 to 1,427.7)	(21,601.7 to 26,147.5)	(1,928.7 to 2,413.9)	(34,951.6 to 42,211.7)
1,648.5	37,915.1	3,066.8	65,305.7	1,043.9	21,545.5	2,253.4	44,559.6	
Middle SDI	(1,483.7 to 1,819.3)	(33,941.3 to 41,806.9)	(2,759.2 to 3,367.2)	(59,390.3 to 71,660.6)	(932.3 to 1,161.4)	(19,286.1 to 23,992.0)	(2,016.5 to 2,489.2)	(40,258.0 to 48,977.8)
867.0	21,974.1	1,796.0	42,648.4	511.7	11,672.6	1,150.5	24,947.4	
Low-middle SDI	(774.2 to 962.3)	(19,686.0 to 24,464.3)	(1,616.4 to 1,994.8)	(38,473.4 to 47,093.3)	(452.9 to 572.8)	(10,355.2 to 13,082.1)	(1,031.5 to 1,287.0)	(22,346.5 to 27,864.2)
217.5	5,708.1	414.2	10,592.9	146.2	3,511.9	292.9	6,936.9	
Low SDI	(192.8 to 244.5)	(5,037.2 to 6,453.2)	(358.9 to 478.6)	(9,172.3 to 12,237.3)	(128.9 to 164.3)	(3,079.4 to 3,984.8)	(253.8 to 338.5)	(5,985.3 to 8,047.1)
1,923.9	30,932.9	1,714.0	23,530.5	1,597.9	24,047.1	1,229.0	15,374.2	
High-income	(1,695.3 to 2,131.1)	(28,073.5 to 33,586.7)	(1,480.5 to 1,955.1)	(20,866.9 to 25,980.5)	(1,399.0 to 1,781.7)	(21,644.9 to 26,267.4)	(1,047.6 to 1,414.1)	(13,621.0 to 17,171.0)
538.1	8,829.9	495.5	7,781.3	416.9	6,145.2	314.4	4,218.8	
High-income North America	(461.5 to 609.1)	(7,869.0 to 9,752.1)	(418.8 to 569.6)	(6,886.2 to 8,702.9)	(353.6 to 476.5)	(5,434.5 to 6,856.6)	(260.7 to 369.1)	(3,650.6 to 4,785.5)
Canada	41.7	692.4	39.2	560.5	32.6	499.4	24.0	314.9
Greenland	0.0	1.0	0.0	0.9	0.0	0.4	0.0	0.4
United States	(425.7 to 562.1)	(7,248.1 to 8,987.7)	(386.8 to 523.6)	(6,393.9 to 8,066.4)	(325.9 to 439.0)	(4,987.8 to 6,299.2)	(240.9 to 340.3)	(3,380.3 to 4,427.3)
38.3	617.7	34.5	446.3	31.7	483.1	23.5	287.8	
Australasia	(33.6 to 43.0)	(556.5 to 674.4)	(28.9 to 40.3)	(390.5 to 499.1)	(27.5 to 35.7)	(438.3 to 533.1)	(19.4 to 27.9)	(248.5 to 327.3)
Australia	31.5	503.7	28.4	362.6	26.0	393.3	19.0	229.3
New Zealand	(27.6 to 35.5)	(453.0 to 551.3)	(23.7 to 33.2)	(315.8 to 407.7)	(22.6 to 29.4)	(352.0 to 434.1)	(15.5 to 22.5)	(197.4 to 261.1)
6.8	114.1	6.2	83.7	5.7	89.8	4.6	58.5	
High-income Asia Pacific	(219.4 to 266.8)	(3,989.2 to 4,702.5)	(237.9 to 309.6)	(3,231.0 to 4,034.6)	(180.9 to 221.9)	(3,076.7 to 3,653.6)	(170.7 to 223.7)	(2,200.7 to 2,768.0)
Brunei	0.2	4.3	0.3	6.7	0.1	2.9	0.2	3.9
Japan	(169.8 to 207.1)	(2,928.0 to 3,443.2)	(198.2 to 256.9)	(2,587.4 to 3,227.7)	(147.5 to 180.9)	(2,427.3 to 2,858.4)	(148.7 to 195.3)	(1,878.0 to 2,361.9)
Singapore	3.3	73.6	4.8	79.0	2.7	56.5	4.0	61.7
South Korea	50.7	1,082.1	40.4	634.6	34.2	654.5	20.8	300.2
(45.3 to 56.3)	(963.1 to 1,195.9)	(343.3 to 46.9)	(551.9 to 720.2)	(30.2 to 38.6)	(576.6 to 733.2)	(17.3 to 25.0)	(255.3 to 349.0)	
Western Europe	(900.2 to 1,124.9)	(14,216.5 to 16,893.3)	(695.4 to 921.9)	(8,968.3 to 11,143.4)	(772.0 to 979.4)	(11,751.1 to 14,121.3)	(518.1 to 703.4)	(6,363.1 to 8,078.6)
Andorra	0.1	1.1	0.1	1.4	0.1	0.9	0.1	1.0
Austria	(0.1 to 0.1)	(0.9 to 1.2)	(0.1 to 1.1)	(1.2 to 1.6)	(0.1 to 0.1)	(0.8 to 1.0)	(0.1 to 0.1)	(0.9 to 1.2)
Austria	23.8	348.9	20.3	241.3	20.5	289.4	16.9	192.1
Belgium	(18.6 to 26.8)	(313.2 to 381.0)	(16.9 to 23.4)	(213.4 to 269.4)	(17.3 to 23.5)	(253.8 to 319.5)	(13.6 to 20.1)	(164.9 to 217.5)
Cyprus	1.6	33.6	18.8	247.0	16.1	230.5	14.1	178.0
Denmark	(1.3 to 1.7)	(20.6 to 25.3)	(1.0 to 1.3)	(16.1 to 20.0)	(1.1 to 1.5)	(15.9 to 20.1)	(0.8 to 1.0)	(11.8 to 15.1)
Denmark	16.2	243.4	9.4	131.6	14.0	202.1	7.9	107.2
Finland	(13.9 to 18.2)	(218.9 to 266.7)	(8.1 to 10.8)	(117.9 to 145.5)	(12.1 to 15.9)	(180.6 to 223.2)	(6.7 to 9.2)	(94.4 to 120.1)
France	15.9	273.1	13.3	178.3	14.7	246.8	11.7	150.2
Germany	(14.1 to 17.5)	(249.9 to 293.3)	(11.1 to 15.3)	(158.1 to 197.4)	(12.6 to 16.3)	(220.7 to 267.0)	(9.4 to 13.6)	(131.2 to 168.1)
Greece	98.2	1,457.2	90.1	1,152.7	79.5	1,128.7	62.1	781.5
Germany	(85.3 to 110.4)	(1,311.3 to 1,596.4)	(74.7 to 106.2)	(1,015.0 to 1,310.1)	(68.6 to 89.7)	(1,006.6 to 1,241.7)	(48.7 to 76.0)	(673.0 to 900.7)
Greece	279.1	4,229.0	219.1	2,632.4	248.5	3,650.5	178.2	1,958.1
Greece	(241.3 to 310.4)	(3,834.5 to 4,577.3)	(187.8 to 249.0)	(2,325.3 to 2,913.4)	(212.8 to 281.5)	(3,242.2 to 3,986.6)	(148.0 to 207.8)	(1,691.5 to 2,212.5)
Iceland	0.4	5.7	0.4	4.7	(18.2 to 24.1)	(260.8 to 332.3)	(19.6 to 28.8)	(236.8 to 312.9)
Ireland	7.5	126.8	5.4	79.4	6.7	109.5	4.4	59.8
Israel	(6.5 to 8.4)	(113.1 to 140.0)	(4.6 to 6.3)	(70.1 to 88.1)	(5.7 to 7.7)	(95.7 to 122.0)	(3.6 to 5.2)	(51.9 to 67.7)
Italy	7.4	123.7	8.2	108.3	6.2	97.5	6.6	81.6
Italy	(137.3 to 163.9)	(2,028.5 to 2,370.1)	(120.6 to 163.7)	(1,410.1 to 1,763.8)	(54.6 to 6.9)	(86.9 to 107.0)	(5.6 to 7.7)	(71.4 to 92.4)
Luxembourg	1.0	16.8	0.8	10.5	11.3	14.1	0.6	8.7
Malta	(0.9 to 1.2)	(15.3 to 18.3)	(0.7 to 0.8)	(9.5 to 11.6)	(9.9 to 12.8)	(15.2 to 185.5)	(0.5 to 0.7)	(7.7 to 9.7)
Netherlands	0.6 to 0.8)	(11.3 to 13.6)	(0.7 to 0.9)	(10.5 to 12.8)	0.7	11.0	0.7	10.3
Netherlands	28.7	462.0	25.5	365.0	23.0	346.1	22.2	298.7
Norway	(25.0 to 32.1)	(412.6 to 509.0)	(22.2 to 28.7)	(327.5 to 402.2)	(19.7 to 25.9)	(304.4 to 386.4)	(18.8 to 25.5)	(263.1 to 333.8)
Norway	12.8	195.0	7.3	95.2	11.3	169.7	5.7	73.7
Portugal	(11.2 to 14.2)	(175.9 to 211.8)	(6.0 to 8.5)	(83.4 to 107.1)	(9.9 to 12.8)	(152.9 to 185.5)	(4.7 to 6.8)	(63.8 to 84.0)
Spain	25.8	429.0	18.2	248.2	19.7	331.8	12.5	167.3
Spain	(22.5 to 29.1)	(388.0 to 470.5)	(15.6 to 21.0)	(219.0 to 277.2)	(17.0 to 22.8)	(298.8 to 367.7)	(10.5 to 14.7)	(146.6 to 188.9)
Sweden	74.5	1,131.7	67.6	876.1	59.4	827.5	47.2	592.4
Sweden	(65.3 to 83.8)	(1,014.8 to 1,243.9)	(57.2 to 78.5)	(767.6 to 979.2)	(51.0 to 68.1)	(734.7 to 921.8)	(39.0 to 57.1)	(51.4 to 67.6)
Switzerland	26.4	374.6	20.2	236.2	21.9	301.0	16.0	177.1
United Kingdom	(10.6 to 14.9)	(161.0 to 208.2)	(9.3 to 13.7)	(113.2 to 151.5)	(18.1 to 25.5)	(261.1 to 340.4)	(12.8 to 19.2)	(151.6 to 201.2)
United Kingdom	186.7	3,002.1	93.9	1,329.8	8.7	122.6	7.8	84.2
England	155.2	2,474.6	75.3	1,057.9	170.3	2,653.1	65.8	889.2
England	(138.3 to 169.9)	(2,626.3 to 2,658.3)	(64.4 to 87.1)	(93.0 to 1,178.0)	143.1	2,214.4	51.5	689.3
Northern Ireland	4.6	77.8	3.2	45.9	4.2	67.2	2.8	38.6
Scotland	16.9	289.2	9.6	143.3	14.1	232.0	7.2	100.9
Wales	(14.9 to 19.0)	(259.2 to 318.6)	(8.2 to 10.9)	(126.2 to 160.0)	(12.1 to 16.0)	(205.3 to 258.4)	(6.0 to 8.3)	(87.9 to 113.6)
Wales	9.9	160.5	5.8	82.7	8.9	139.4	4.4	60.4
Wales	(8.7 to 10.9)	(145.8 to 173.8)	(4.9 to 6.7)	(73.1 to 92.1)	(7.6 to 10.0)	(123.4 to 152.8)	(3.6 to 5.3)	(52.4 to 68.7)
Wales	85.4	1,527.6	104.8	1,587.2	66.8	1,066.8	85.0	1,171.2
Southern Latin America	(76.7 to 94.5)	(1,384.8 to 1,667.4)	(92.8 to 116.0)	(1,441.9 to 1,723.7)	(58.5 to 74.5)	(59.3 to 73.7)	(2.2 to 3.2)	(33.5 to 43.0)
Argentina	61.6	1,121.8	74.0	1,152.4	47.5	769.0	60.0	854.6
Argentina	(55.1 to 68.2)	(1,015.3 to 1,229.7)	(64.9 to 82.6)	(1,047.0 to 1,257.2)	(41.1 to 53.5)	(685.7 to 853.3)	(51.6 to 68.3)	(764.2 to 946.6)
Chile	16.5	283.5	23.7	338.0	13.4	207.2	19.3	244.6
Uruguay	(14.6 to 18.3)	(256.0 to 308.8)	(20.8 to 26.3)	(302.1 to 371.8)	(11.5 to 15.0)	(185.0 to 227.8)	(16.3 to 21.9)	(215.7 to 273.1)
Uruguay	7.3	122.3	7.1	96.7	5.9	90.6	5.7	71.9
Uruguay	(6.5 to 8.2)	(109.5 to 133.6)	(6.1 to 8.0)	(86.0 to 105.8)	(5.0 to 6.7)	(79.5 to 100.3)	(4.8 to 6.7)	(62.9 to 80.7)
Central Europe, Eastern Europe, and Central Asia	1,453.8	26,980.2	1,673.4	28,713.5	1,238.7	22,055.6	1,423.6	23,362.1
Eastern Europe	(1,287.8 to 1,599.5)	(24,682.9 to 29,068.9)	(1,455.1 to 1,856.4)	(26,016.3 to 31,134.1)	(1,091.8 to 1,372.9)	(20,102.3 to 23,863.6)	(1,230.1 to 1,593.2)	(21,055.0 to 25,490.8)
Belarus	863.5	15,967.5	1,070.6	18,513.2	733.1	13,084.1	911.6	15,106.9
Belarus	38.7	702.5	55.0	923.7	32.9	574.3	47.1	764.5
Estonia	(33.4 to 43.5)	(628.3 to 767.4)	(45.8 to 62.6)	(812.2 to 1,022.1)	(27.5 to 37.5)	(507.6 to 634.7)	(38.6 to 54.3)	(664.2 to 849.1)
Estonia	7.4	128.3	6.0	79.6	6.8	114.2	5.5	71.1
Latvia	(6.4 to 8.3)	(117.0 to 138.5)	(5.1 to 6.7)	(71.2 to 87.0)	(5.7 to 7.6)	(101.4 to 124.1)	(4.6 to 6.2)	(62.3 to 78.1)
Latvia	12.5	217.4	10.1	154.8	10.7	179.0	8.8	129.5
Latvia	(10.7 to 14.1)	(195.5 to 236.2)	(8.7 to 11.4)	(138.7 to 169.1)	(9.0 to 12.2)	(159.4 to 197.3)	(7.4 to 10.0)	(114.4 to 143.4)

Table 3. Estimated number of deaths and disability-adjusted life years (DALYs) in thousands related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mm Hg for all causes combined, ages ≥25, and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty intervals. SDI is calculated as a function of log-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index. (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)
Lithuania	13.6 (11.5 to 15.5)	234.5 (211.9 to 254.9)	12.8 (10.7 to 14.6)	196.4 (175.2 to 215.8)	12.0 (9.9 to 13.7)	200.8 (178.8 to 219.9)	11.1 (9.1 to 12.8)	165.9 (145.6 to 183.1)
Moldova	13.4 (11.7 to 14.9)	235.6 (230.5 to 275.7)	13.9 (12.1 to 15.5)	238.8 (216.6 to 258.5)	11.4 (9.8 to 12.8)	208.2 (185.6 to 229.7)	12.4 (10.5 to 14.0)	207.0 (185.4 to 225.6)
Russia	544.4 (483.1 to 602.7)	10,333.3 (9,412.6 to 11,187.3)	682.5 (589.5 to 758.8)	12,209.7 (10,945.0 to 13,319.2)	452.3 (396.5 to 505.0)	8,267.8 (7,500.1 to 8,990.3)	568.0 (487.8 to 640.2)	9,672.7 (8,858.5 to 10,629.9)
Ukraine	233.4 (204.0 to 269.5)	4,098.0 (3,720.6 to 4,439.4)	290.3 (247.0 to 320.4)	4,710.1 (4,195.6 to 5,160.6)	207.0 (177.9 to 232.8)	3,539.9 (3,164.1 to 3,867.7)	258.7 (217.6 to 296.8)	4,096.2 (3,623.0 to 4,549.0)
Central Europe	454.2 (404.3 to 496.5)	8,270.9 (7,620.7 to 8,866.2)	418.1 (365.8 to 463.5)	6,440.2 (5,869.5 to 6,943.8)	402.6 (355.3 to 442.1)	7,025.8 (6,382.4 to 7,593.5)	370.3 (322.9 to 412.0)	5,525.2 (5,012.6 to 5,987.9)
Albania	4.3 (3.9 to 4.8)	85.3 (77.4 to 93.4)	7.3 (6.2 to 8.5)	126.2 (111.3 to 140.9)	3.7 (3.2 to 4.2)	68.5 (61.7 to 75.4)	6.3 (5.3 to 7.3)	104.5 (91.5 to 117.6)
Bosnia and Herzegovina	9.3 (8.4 to 10.2)	191.6 (175.5 to 206.7)	9.9 (8.7 to 11.1)	164.2 (148.8 to 179.1)	8.1 (6.9 to 9.0)	157.7 (142.0 to 171.2)	8.7 (7.5 to 9.8)	139.1 (124.6 to 153.2)
Bulgaria	43.7 (38.8 to 47.8)	776.3 (712.7 to 836.5)	44.0 (38.9 to 48.8)	681.3 (622.7 to 742.8)	38.6 (33.7 to 42.9)	659.2 (594.5 to 716.6)	38.7 (33.7 to 43.3)	581.2 (525.2 to 634.5)
Croatia	18.0 (16.1 to 19.5)	311.9 (286.4 to 333.7)	16.2 (14.0 to 18.2)	230.3 (206.0 to 252.0)	16.2 (14.2 to 17.8)	269.9 (244.7 to 290.8)	14.4 (12.3 to 16.3)	199.9 (177.0 to 220.1)
Czech Republic	43.5 (38.2 to 48.3)	753.6 (679.3 to 816.8)	30.8 (25.8 to 35.5)	452.0 (400.8 to 500.1)	38.1 (32.9 to 42.7)	637.5 (572.3 to 697.7)	25.7 (21.0 to 30.0)	363.0 (317.7 to 405.5)
Hungary	50.6 (45.7 to 54.6)	917.9 (847.3 to 977.1)	41.0 (35.6 to 45.5)	596.8 (537.1 to 644.8)	46.7 (37.6 to 51.2)	816.7 (724.3 to 878.8)	38.4 (29.3 to 43.0)	541.3 (459.2 to 590.5)
Macedonia	5.1 (4.7 to 5.5)	99.5 (92.3 to 106.9)	6.4 (5.6 to 7.1)	111.9 (100.8 to 122.3)	4.5 (4.0 to 4.9)	83.9 (76.8 to 90.9)	5.6 (4.9 to 6.2)	94.5 (84.4 to 104.1)
Montenegro	1.6 (1.4 to 1.8)	29.0 (26.2 to 31.8)	2.1 (1.8 to 2.3)	35.2 (31.5 to 38.7)	1.4 (1.2 to 1.6)	24.4 (21.6 to 26.9)	1.8 (1.6 to 2.1)	29.7 (26.5 to 32.9)
Poland	132.3 (116.4 to 146.9)	2,446.2 (2,211.6 to 2,649.5)	110.1 (93.8 to 123.9)	1,730.4 (1,553.2 to 1,886.0)	114.1 (95.5 to 128.0)	2,002.1 (1,778.5 to 2,189.5)	97.3 (81.9 to 110.5)	1,477.8 (1,317.9 to 1,625.3)
Romania	90.9 (81.7 to 98.7)	1,668.2 (1,533.3 to 1,787.1)	96.3 (85.0 to 106.5)	1,470.3 (1,334.5 to 1,597.4)	81.9 (71.5 to 89.6)	1,450.6 (1,310.0 to 1,563.3)	85.9 (75.2 to 95.6)	1,275.6 (1,151.9 to 1,397.3)
Serbia	29.8 (26.7 to 32.9)	548.2 (502.1 to 593.5)	33.9 (29.9 to 37.6)	528.2 (481.5 to 575.2)	26.8 (23.7 to 29.6)	474.5 (429.7 to 516.2)	29.7 (26.0 to 33.4)	450.5 (408.7 to 493.7)
Slovakia	19.5 (17.2 to 21.5)	351.0 (319.3 to 380.1)	15.6 (13.2 to 17.6)	249.0 (221.9 to 272.9)	17.4 (14.2 to 19.5)	301.0 (264.6 to 328.2)	13.7 (11.4 to 15.6)	212.3 (187.8 to 232.7)
Slovenia	5.5 (4.9 to 6.0)	92.3 (84.7 to 99.6)	4.7 (4.1 to 5.3)	64.5 (57.4 to 71.2)	4.9 (4.1 to 5.5)	79.7 (71.0 to 87.1)	4.2 (3.6 to 4.8)	55.8 (49.2 to 62.1)
Central Asia	136.1 (119.9 to 151.2)	2,741.7 (2,490.5 to 2,985.6)	184.7 (162.4 to 204.3)	3,760.1 (3,417.6 to 4,096.7)	102.9 (89.7 to 115.1)	1,945.8 (1,753.8 to 2,128.9)	141.8 (123.8 to 157.9)	2,730.0 (2,461.9 to 2,992.9)
Armenia	7.6 (6.7 to 8.4)	145.9 (132.7 to 158.5)	9.7 (8.3 to 10.9)	157.9 (142.3 to 173.4)	6.7 (5.8 to 7.4)	122.4 (110.7 to 133.8)	8.7 (7.4 to 9.8)	135.0 (120.5 to 148.9)
Azerbaijan	13.8 (12.2 to 15.3)	300.0 (271.2 to 331.2)	20.3 (17.5 to 23.1)	418.4 (367.2 to 467.1)	10.7 (9.3 to 12.0)	216.4 (193.4 to 239.4)	15.9 (13.6 to 18.3)	306.2 (268.2 to 344.1)
Georgia	21.1 (18.6 to 23.4)	404.1 (364.3 to 442.2)	19.7 (17.3 to 22.0)	315.3 (284.0 to 346.1)	18.3 (16.0 to 20.3)	333.7 (302.1 to 366.1)	16.8 (14.7 to 18.9)	256.8 (230.0 to 283.4)
Kazakhstan	34.1 (29.9 to 38.0)	694.7 (624.4 to 760.6)	41.5 (36.1 to 46.6)	897.5 (792.8 to 1,008.5)	25.1 (21.7 to 28.4)	481.2 (428.7 to 533.4)	30.8 (26.6 to 35.0)	631.5 (555.7 to 710.2)
Kyrgyzstan	7.3 (6.3 to 8.2)	144.6 (127.0 to 161.8)	9.6 (8.3 to 10.9)	203.2 (179.6 to 229.9)	4.7 (4.0 to 5.4)	85.2 (74.6 to 96.2)	6.2 (5.3 to 7.1)	120.0 (104.4 to 137.2)
Mongolia	3.3 (2.9 to 3.7)	77.6 (69.5 to 85.8)	5.6 (4.9 to 6.3)	143.0 (127.1 to 159.6)	2.5 (2.2 to 2.8)	54.4 (48.7 to 60.6)	4.3 (3.8 to 4.8)	104.4 (92.7 to 116.9)
Tajikistan	7.4 (6.5 to 8.3)	147.3 (131.7 to 161.8)	9.2 (8.0 to 10.3)	195.8 (174.1 to 216.9)	5.7 (4.9 to 6.4)	105.7 (94.4 to 116.5)	7.0 (6.1 to 7.9)	139.2 (123.3 to 155.3)
Turkmenistan	6.1 (5.4 to 6.8)	135.9 (122.7 to 149.0)	9.9 (8.8 to 11.1)	228.0 (206.5 to 250.6)	4.6 (4.1 to 5.2)	96.8 (86.6 to 106.9)	7.5 (6.6 to 8.5)	162.7 (146.2 to 180.8)
Uzbekistan	35.5 (30.9 to 39.8)	691.4 (623.2 to 758.9)	59.2 (52.2 to 65.9)	1,201.0 (1,080.1 to 1,312.9)	24.7 (21.4 to 28.3)	450.0 (400.5 to 501.2)	44.7 (38.9 to 50.5)	874.3 (780.4 to 966.3)
Latin America and Caribbean	33.2 (29.7 to 361.8)	7,488.8 (6,772.0 to 8,232.2)	625.2 (560.7 to 689.2)	12,218.3 (11,078.5 to 13,307.3)	215.6 (192.8 to 239.4)	4,379.5 (3,933.0 to 4,831.3)	452.6 (402.5 to 501.2)	8,072.1 (7,295.7 to 8,839.1)
Central Latin America	107.9 (97.6 to 118.4)	2,355.8 (2,129.8 to 2,544.4)	235.7 (2,101.0 to 261.2)	4,445.1 (4,011.5 to 4,876.4)	72.9 (65.5 to 80.7)	1,403.9 (1,267.5 to 1,541.4)	163.8 (144.4 to 182.8)	2,764.5 (2,480.0 to 3,045.1)
Colombia	28.6 (26.0 to 31.2)	601.2 (545.9 to 655.9)	43.8 (38.7 to 48.5)	800.5 (722.0 to 878.9)	21.8 (19.5 to 24.0)	400.1 (360.3 to 437.6)	35.2 (30.7 to 39.4)	576.5 (516.4 to 635.7)
Costa Rica	2.2 (2.0 to 2.5)	44.3 (40.0 to 48.4)	4.7 (4.2 to 5.2)	84.8 (76.2 to 93.0)	1.8 (1.5 to 2.0)	32.2 (28.7 to 35.5)	3.8 (3.4 to 4.3)	62.9 (56.0 to 69.1)
El Salvador	4.1 (3.6 to 4.7)	98.3 (87.6 to 111.5)	7.9 (6.8 to 8.9)	156.7 (135.8 to 174.9)	2.7 (2.3 to 3.1)	55.4 (49.1 to 62.7)	5.4 (4.6 to 6.3)	93.5 (80.9 to 105.5)
Guatemala	4.1 (3.6 to 4.6)	103.8 (92.7 to 114.3)	9.6 (8.0 to 11.2)	200.4 (170.4 to 231.2)	2.3 (2.0 to 2.6)	47.8 (41.1 to 54.2)	5.9 (4.8 to 7.1)	104.5 (86.7 to 122.3)
Honduras	3.2 (2.8 to 3.6)	79.5 (69.9 to 89.3)	9.0 (7.2 to 11.1)	168.5 (134.7 to 208.9)	2.1 (1.8 to 2.4)	45.2 (39.1 to 51.3)	6.4 (5.1 to 7.9)	109.6 (88.0 to 134.1)
Mexico	45.0 (40.4 to 49.6)	953.8 (865.3 to 1,045.3)	116.5 (102.6 to 129.8)	2,173.1 (1,939.9 to 2,409.4)	27.6 (24.6 to 30.8)	524.5 (471.8 to 579.5)	74.9 (65.4 to 84.1)	1,246.7 (1,105.6 to 1,387.5)
Nicaragua	1.8 (1.6 to 2.0)	45.8 (41.3 to 50.7)	5.2 (4.5 to 5.8)	103.2 (90.1 to 116.5)	1.2 (1.1 to 1.4)	26.8 (23.6 to 30.1)	3.7 (3.2 to 4.3)	65.7 (56.7 to 75.0)
Panama	1.8 (1.5 to 2.0)	34.9 (30.8 to 39.0)	3.6 (3.0 to 4.2)	62.5 (53.7 to 72.7)	1.2 (1.0 to 1.4)	20.9 (18.2 to 23.7)	2.5 (2.1 to 3.0)	39.3 (33.2 to 46.6)
Venezuela	17.0 (15.3 to 18.5)	374.2 (340.4 to 406.9)	35.4 (31.0 to 40.6)	695.4 (607.1 to 801.1)	12.2 (10.8 to 13.6)	251.0 (223.7 to 277.4)	26.0 (22.3 to 30.1)	465.9 (404.3 to 539.5)
Andean Latin America	21.2 (18.4 to 23.9)	480.7 (421.3 to 538.7)	42.4 (36.9 to 47.9)	779.6 (685.1 to 872.7)	10.7 (9.1 to 12.3)	194.9 (168.2 to 224.8)	28.5 (24.3 to 32.6)	446.0 (386.3 to 504.1)
Bolivia	5.0 (4.4 to 5.8)	120.6 (104.3 to 138.4)	11.0 (8.9 to 13.1)	196.7 (162.5 to 234.3)	2.7 (2.3 to 3.2)	53.7 (45.3 to 63.1)	7.7 (6.2 to 9.3)	117.6 (96.8 to 140.7)
Ecuador	5.2 (4.5 to 5.9)	113.3 (98.6 to 128.9)	14.4 (12.4 to 16.4)	261.7 (227.9 to 296.9)	2.4 (2.0 to 2.8)	41.2 (34.7 to 48.4)	8.9 (7.5 to 10.3)	140.5 (119.1 to 162.4)
Peru	10.9 (9.4 to 12.5)	246.8 (214.5 to 279.4)	17.0 (14.4 to 19.6)	321.3 (278.3 to 368.5)	5.6 (4.6 to 6.6)	100.0 (85.2 to 116.8)	11.9 (10.0 to 13.9)	187.9 (162.2 to 217.0)
Caribbean	47.7 (42.1 to 53.3)	981.8 (878.2 to 1,088.3)	74.3 (65.5 to 82.7)	1,368.2 (1,229.5 to 1,515.9)	30.5 (26.7 to 34.3)	576.6 (513.0 to 643.9)	51.7 (45.0 to 57.9)	883.8 (785.1 to 987.1)
Antigua and Barbuda	0.1 (0.1 to 0.1)	1.9 (1.7 to 2.0)	0.1 (0.1 to 0.1)	2.3 (2.0 to 2.6)	0.1 (0.1 to 0.1)	1.1 (1.0 to 1.3)	0.1 (0.1 to 0.1)	1.5 (1.3 to 1.7)
The Bahamas	0.3 (0.3 to 0.3)	7.2 (6.5 to 7.8)	0.7 (0.6 to 0.7)	13.5 (12.0 to 15.1)	0.2 (0.2 to 0.2)	4.2 (3.8 to 4.7)	0.5 (0.4 to 0.5)	9.0 (7.8 to 10.1)
Barbados	0.5 (0.4 to 0.5)	8.0 (7.2 to 8.9)	0.5 (0.5 to 0.6)	6.5 (8.5 to 10.7)	0.3 (0.3 to 0.4)	5.2 (4.6 to 5.8)	0.4 (0.4 to 0.5)	6.8 (6.0 to 7.7)
Belize	0.2 (0.1 to 0.2)	3.3 (2.9 to 3.7)	0.3 (0.2 to 0.3)	6.5 (5.6 to 7.3)	0.1 (0.1 to 0.1)	1.8 (1.6 to 2.1)	0.2 (0.2 to 0.2)	3.7 (3.2 to 4.2)
Bermuda	0.1 (0.1 to 0.1)	1.8 (1.6 to 2.0)	0.1 (0.1 to 0.1)	1.3 (1.2 to 1.5)	0.1 (0.1 to 0.1)	1.1 (1.0 to 1.3)	0.1 (0.0 to 0.1)	0.9 (0.8 to 1.0)
Cuba	15.0 (12.7 to 17.4)	279.9 (246.9 to 314.2)	21.8 (18.5 to 25.1)	354.9 (312.8 to 392.8)	9.0 (7.5 to 10.6)	158.9 (138.1 to 180.9)	14.0 (11.6 to 16.3)	217.0 (189.0 to 245.0)
Dominica	0.1 (0.1 to 0.1)	2.0 (1.8 to 2.2)	0.1 (0.1 to 0.1)	2.4 (2.2 to 2.7)	0.1 (0.1 to 0.1)	1.3 (1.1 to 1.4)	0.1 (0.1 to 0.1)	1.6 (1.4 to 1.9)
Dominican Republic	4.7 (4.2 to 5.2)	110.1 (98.1 to 122.5)	14.2 (12.4 to 15.8)	252.0 (225.8 to 276.8)	3.0 (2.7 to 3.4)	63.1 (55.9 to 70.8)	10.3 (8.9 to 11.8)	167.7 (149.2 to 186.4)
Grenada	0.2 (0.2 to 0.2)	3.5 (3.1 to 3.8)	0.2 (0.2 to 0.2)	3.5 (3.1 to 3.9)	0.1 (0.1 to 0.1)	2.1 (1.9 to 2.4)	0.1 (0.1 to 0.1)	2.2 (2.0 to 2.5)
Guyana	1.2 (1.1 to 1.3)	27.4 (24.6 to 30.3)	1.4 (1.2 to 1.5)	33.1 (28.3 to 37.9)	0.8 (0.7 to 0.9)	16.		

Table 3. Estimated number of deaths and disability-adjusted life years (DALYs) in thousands related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mm Hg for all causes combined, ages ≥25, and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty intervals. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index. (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)
Jamaica	3.2 (2.8 to 3.6)	54.4 (48.6 to 60.3)	4.5 (3.8 to 5.2)	76.6 (66.7 to 86.6)	2.0 (1.7 to 2.3)	30.1 (26.2 to 34.1)	3.2 (2.7 to 3.7)	51.4 (44.6 to 58.6)
Puerto Rico	5.3 (4.6 to 6.0)	95.0 (84.7 to 105.2)	6.4 (5.6 to 7.3)	96.8 (86.3 to 107.4)	3.6 (3.1 to 4.1)	60.1 (53.0 to 67.4)	4.8 (4.1 to 5.5)	67.8 (60.4 to 76.1)
Saint Lucia	0.2 (0.2 to 0.2)	4.2 (3.8 to 4.6)	0.3 (0.3 to 0.3)	5.3 (4.7 to 5.9)	0.1 (0.1 to 0.2)	2.6 (2.3 to 2.9)	0.2 (0.2 to 0.2)	3.5 (3.1 to 3.9)
Saint Vincent and the Grenadines	0.2 (0.1 to 0.2)	2.9 (2.6 to 3.2)	0.2 (0.2 to 0.2)	3.9 (3.5 to 4.3)	0.1 (0.1 to 0.1)	1.8 (1.6 to 2.0)	0.1 (0.1 to 0.2)	2.6 (2.3 to 2.9)
Suriname	0.5 (0.4 to 0.5)	10.7 (9.6 to 11.9)	0.8 (0.7 to 0.9)	16.6 (14.4 to 19.0)	0.3 (0.3 to 0.4)	6.3 (5.5 to 7.1)	0.6 (0.5 to 0.7)	10.9 (9.3 to 12.6)
Trinidad and Tobago	2.2 (2.0 to 2.3)	44.4 (40.7 to 48.0)	2.8 (2.5 to 3.2)	58.1 (52.2 to 65.4)	1.7 (1.5 to 1.9)	31.8 (28.9 to 34.5)	2.3 (2.0 to 2.6)	44.2 (39.5 to 49.7)
Virgin Islands, U.S.	0.1 (0.1 to 0.1)	3.0 (2.6 to 3.3)	0.3 (0.3 to 0.4)	5.6 (4.9 to 6.2)	0.1 (0.1 to 0.1)	1.8 (1.6 to 2.0)	0.2 (0.2 to 0.3)	3.9 (3.4 to 4.4)
Tropical Latin America	153.5 (138.6 to 168.2)	3,690.6 (3,319.3 to 4,062.7)	272.8 (243.8 to 302.0)	5,625.4 (5,061.8 to 6,164.7)	101.5 (90.7 to 112.2)	2,204.1 (1,972.1 to 2,442.4)	208.6 (186.1 to 231.2)	3,977.8 (3,580.7 to 4,373.5)
Brazil	150.5 (135.9 to 164.9)	3,625.4 (3,259.9 to 3,988.5)	265.4 (237.1 to 293.4)	5,476.6 (4,927.9 to 6,007.0)	99.4 (88.8 to 110.0)	2,162.2 (1,934.0 to 2,395.7)	203.0 (181.4 to 225.0)	3,874.7 (3,483.7 to 4,261.7)
Paraguay	2.9 (2.6 to 3.3)	65.2 (57.3 to 73.6)	7.4 (6.4 to 8.5)	148.8 (128.9 to 170.9)	2.1 (1.8 to 2.4)	41.9 (36.3 to 48.1)	5.6 (4.7 to 6.5)	103.1 (88.6 to 119.4)
Southeast Asia, East Asia, and Oceania	1,549.1 to 1,933.4 (1,549.1 to 1,933.4)	34,044.0 to 42,629.8 (34,044.0 to 42,629.8)	2,973.7 to 3,654.6 (2,973.7 to 3,654.6)	60,857.6 to 73,623.1 (60,857.6 to 73,623.1)	938.7 to 1,185.4 (938.7 to 1,185.4)	18,403.3 to 23,397.8 (18,403.3 to 23,397.8)	2,250.6 to 2,789.0 (2,250.6 to 2,789.0)	43,177.4 to 52,746.6 (43,177.4 to 52,746.6)
East Asia	1,272.0 (1,122.2 to 1,242.9)	27,070.2 (23,829.9 to 30,324.4)	2,405.5 (2,156.0 to 2,660.9)	46,474.4 (41,949.7 to 51,163.3)	729.9 (632.6 to 829.1)	13,636.8 (11,793.3 to 15,535.6)	1,838.8 (1,646.8 to 2,042.7)	33,618.4 (30,372.6 to 37,096.8)
China	1,232.6 (1,082.3 to 1,383.4)	26,178.5 (22,992.4 to 29,387.4)	2,334.5 (2,090.3 to 2,581.9)	45,062.6 (40,761.9 to 49,610.2)	703.9 (607.8 to 801.5)	13,104.0 (11,273.3 to 14,933.9)	1,791.8 (1,605.9 to 1,984.9)	32,751.3 (29,564.7 to 36,158.7)
North Korea	19.7 (15.3 to 25.4)	47.3 (36.1 to 61.8)	46.9 (37.5 to 57.6)	1,009.6 (807.0 to 1,249.7)	13.1 (9.8 to 17.1)	283.0 (212.7 to 371.8)	33.1 (25.9 to 41.7)	657.0 (515.6 to 824.8)
Taiwan	19.7 (17.5 to 22.0)	41.9 (37.2 to 466.5)	24.1 (19.9 to 29.1)	402.2 (340.7 to 474.3)	12.9 (11.1 to 14.6)	249.8 (217.6 to 284.5)	13.9 (10.7 to 17.5)	210.0 (169.1 to 256.3)
Southeast Asia	459.0 (407.0 to 509.9)	11,016.6 (9,758.4 to 12,268.7)	884.1 (779.1 to 991.4)	20,111.3 (17,656.0 to 22,817.8)	290.8 to 368.1 (290.8 to 368.1)	6,322.1 to 8,000.9 (6,322.1 to 8,000.9)	575.7 to 749.2 (575.7 to 749.2)	12,074.8 to 15,824.0 (12,074.8 to 15,824.0)
Cambodia	8.2 (6.9 to 9.5)	219.4 (184.7 to 258.3)	14.5 (12.0 to 17.2)	346.7 (283.3 to 418.4)	3.9 (3.2 to 4.7)	77.8 to 113.0 (77.8 to 113.0)	5.9 to 8.7 (5.9 to 8.7)	156.4 (125.8 to 190.5)
Indonesia	197.3 (173.9 to 219.5)	4,942.1 (4,350.4 to 5,517.3)	394.4 (322.6 to 469.7)	9,686.0 (7,777.4 to 11,648.5)	158.8 (138.9 to 178.5)	3,584.9 (3,130.3 to 4,030.1)	324.1 (264.5 to 384.5)	7,307.6 (5,933.3 to 8,765.6)
Laos	6.3 (4.9 to 7.8)	164.1 (128.4 to 204.0)	7.3 (6.0 to 8.9)	181.3 (146.7 to 221.9)	4.4 (3.4 to 5.4)	102.0 (79.1 to 127.8)	5.2 (4.3 to 6.3)	116.0 (94.7 to 142.4)
Malaysia	17.2 (15.5 to 18.9)	402.1 (363.9 to 441.4)	34.3 (29.4 to 39.6)	825.0 (710.3 to 952.8)	12.7 (11.3 to 14.1)	276.0 (247.4 to 305.8)	27.4 (23.4 to 31.6)	632.1 (542.9 to 733.8)
Maldives	0.2 (0.2 to 0.2)	4.8 (4.2 to 5.5)	0.2 (0.2 to 0.3)	4.8 (4.0 to 5.6)	0.1 (0.1 to 0.2)	3.3 (2.9 to 3.7)	0.2 (0.2 to 0.2)	3.5 (2.9 to 4.1)
Mauritius	1.9 (1.7 to 2.1)	44.6 (40.1 to 48.8)	2.6 (2.3 to 2.9)	52.5 (47.1 to 57.7)	1.3 (1.1 to 1.4)	28.1 (25.0 to 31.1)	1.9 (1.7 to 2.1)	35.9 (32.0 to 39.9)
Myanmar	49.6 (31.3 to 71.2)	1,180.7 (743.8 to 1,744.3)	67.4 (42.8 to 94.6)	1,578.6 (994.3 to 2,301.3)	36.3 (22.9 to 52.9)	786.5 (489.9 to 1,173.3)	50.0 (31.9 to 70.0)	1,087.2 (690.5 to 1,593.4)
Philippines	40.8 (36.8 to 45.1)	1,095.4 (978.6 to 1,213.7)	108.7 (95.8 to 122.7)	2,729.3 (2,385.7 to 3,092.7)	25.0 (22.2 to 28.2)	614.4 (542.3 to 691.3)	62.5 (53.7 to 71.7)	1,450.5 (1,245.7 to 1,660.6)
Sri Lanka	17.8 (15.9 to 19.7)	416.3 (373.7 to 456.7)	26.9 (21.2 to 32.8)	547.0 (436.3 to 671.2)	12.0 (10.4 to 13.6)	248.0 (216.1 to 277.0)	19.8 (15.6 to 24.3)	380.6 (298.9 to 468.6)
Seychelles	0.2 (0.2 to 0.2)	3.4 (3.1 to 3.6)	0.2 (0.2 to 0.2)	3.7 (3.3 to 4.2)	0.1 (0.1 to 0.2)	2.7 (2.4 to 2.9)	0.2 (0.1 to 0.2)	2.9 (2.5 to 3.3)
Thailand	43.7 (38.0 to 50.2)	1,072.8 (937.9 to 1,218.8)	84.8 (70.3 to 101.0)	1,704.3 (1,396.6 to 2,022.0)	23.3 (19.6 to 27.5)	491.1 (416.5 to 577.4)	52.1 (43.0 to 62.3)	936.2 (768.6 to 1,149.9)
Timor-Leste	0.5 (0.4 to 0.6)	14.8 (11.5 to 18.5)	1.0 (0.7 to 1.2)	21.8 (16.8 to 27.3)	0.4 (0.3 to 0.4)	9.8 (7.7 to 12.3)	0.7 (0.6 to 0.9)	15.9 (12.2 to 20.1)
Vietnam	74.5 (62.0 to 89.1)	1,438.8 (1,213.4 to 1,721.0)	139.9 (110.4 to 169.2)	2,393.0 (1,860.4 to 2,984.5)	51.0 (41.7 to 61.4)	888.9 (737.2 to 1,060.8)	110.3 (86.3 to 133.4)	1,738.7 (1,350.0 to 2,152.5)
Oceania	7.1 (5.6 to 9.0)	202.9 (157.0 to 262.5)	16.7 (12.6 to 22.8)	466.6 (338.8 to 665.0)	3.7 (3.0 to 4.6)	91.2 (72.3 to 114.2)	9.5 (7.4 to 12.6)	239.4 (176.7 to 330.9)
American Samoa	0.0 (0.0 to 0.1)	1.3 (1.1 to 1.5)	0.1 (0.1 to 0.1)	2.1 (1.7 to 2.5)	0.0 (0.0 to 0.0)	0.9 (0.8 to 1.1)	0.1 (0.0 to 0.1)	1.5 (1.2 to 1.8)
Federated States of Micronesia	0.1 (0.1 to 0.2)	2.8 (1.7 to 4.1)	0.2 (0.1 to 0.2)	3.8 (2.5 to 6.3)	0.1 (0.0 to 0.1)	1.2 (0.7 to 1.7)	0.1 (0.1 to 0.1)	2.1 (1.4 to 3.3)
Fiji	1.0 (0.9 to 1.2)	30.8 (25.3 to 37.4)	2.0 (1.7 to 2.3)	52.5 (43.8 to 62.6)	0.6 (0.5 to 0.8)	17.4 (14.1 to 21.3)	1.3 (1.1 to 1.6)	32.3 (26.8 to 38.7)
Guam	0.1 (0.1 to 0.2)	3.4 (3.0 to 3.9)	0.4 (0.3 to 0.4)	7.9 (6.6 to 9.4)	0.1 (0.1 to 0.1)	1.9 (1.6 to 2.2)	0.3 (0.2 to 0.3)	5.1 (4.2 to 6.1)
Kiribati	0.1 (0.1 to 0.1)	2.6 (2.2 to 3.1)	0.2 (0.1 to 0.2)	4.8 (3.9 to 5.8)	0.0 (0.0 to 0.1)	1.3 (1.0 to 1.5)	0.1 (0.1 to 0.1)	2.4 (1.9 to 2.9)
Marshall Islands	0.0 (0.0 to 0.1)	1.3 (1.1 to 1.5)	0.1 (0.1 to 0.1)	3.0 (2.4 to 3.7)	0.0 (0.0 to 0.0)	0.6 (0.5 to 0.7)	0.1 (0.1 to 0.1)	1.5 (1.2 to 1.9)
Northern Mariana Islands	0.0 (0.0 to 0.0)	0.6 (0.5 to 0.7)	0.0 (0.0 to 0.1)	1.5 (1.3 to 1.8)	0.0 (0.0 to 0.0)	0.3 (0.3 to 0.4)	0.0 (0.0 to 0.0)	0.9 (0.7 to 1.0)
Papua New Guinea	4.0 (2.7 to 5.6)	115.7 (76.4 to 169.1)	9.9 (6.3 to 15.3)	295.9 (186.3 to 474.4)	1.8 (1.2 to 2.6)	44.9 (29.4 to 65.2)	5.2 (3.3 to 7.9)	139.5 (87.2 to 220.4)
Samoa	0.2 (0.1 to 0.2)	4.2 (3.3 to 5.3)	0.3 (0.2 to 0.3)	5.8 (4.6 to 7.1)	0.1 (0.1 to 0.1)	2.2 (1.7 to 2.8)	0.2 (0.1 to 0.2)	3.6 (2.9 to 4.4)
Solomon Islands	0.4 (0.3 to 0.6)	10.9 (7.0 to 16.2)	0.9 (6.6 to 14.4)	25.0 (15.4 to 38.9)	0.2 (0.1 to 0.3)	4.8 (3.2 to 6.9)	0.5 (0.3 to 0.7)	12.2 (7.6 to 18.4)
Tonga	0.1 (0.1 to 0.1)	1.6 (1.4 to 2.0)	0.1 (0.1 to 0.1)	2.1 (1.7 to 2.6)	0.0 (0.0 to 0.1)	1.0 (0.8 to 1.2)	0.1 (0.1 to 0.1)	1.4 (1.1 to 1.7)
Vanuatu	0.3 (0.2 to 0.4)	6.8 (4.5 to 10.0)	0.5 (0.4 to 0.8)	14.4 (9.6 to 21.9)	0.2 (0.1 to 0.3)	4.8 (3.2 to 7.0)	0.4 (0.3 to 0.6)	10.6 (7.2 to 16.3)
North Africa and Middle East	381.4 (343.7 to 418.1)	9,163.2 (8,304.4 to 10,094.5)	650.0 (582.9 to 717.2)	15,215.0 (13,688.5 to 16,846.8)	266.6 (239.3 to 294.6)	5,838.7 (5,267.0 to 6,474.6)	445.9 (398.5 to 495.2)	972.5 (8,706.9 to 10,792.8)
Afghanistan	21.9 (16.7 to 27.5)	622.9 (466.2 to 802.4)	63.2 (49.3 to 79.8)	1,751.8 (1,335.7 to 2,261.5)	15.2 (11.3 to 19.0)	398.6 (296.1 to 514.5)	42.1 (33.0 to 52.7)	1,069.0 (821.9 to 1,379.2)
Algeria	20.3 (17.9 to 23.1)	485.5 (425.4 to 549.8)	41.1 (35.3 to 47.2)	809.3 (703.6 to 931.0)	13.6 (11.8 to 15.6)	279.2 (241.2 to 321.3)	26.1 (22.0 to 30.4)	428.0 (365.7 to 497.8)
Bahrain	0.4 (0.3 to 0.4)	10.8 (9.0 to 12.5)	0.5 (0.4 to 0.6)	15.7 (12.8 to 19.0)	0.2 (0.2 to 0.3)	6.4 (5.3 to 7.5)	0.3 (0.3 to 0.4)	9.4 (7.5 to 11.4)
Egypt	83.0 (74.7 to 91.2)	2,012.2 (1,827.0 to 2,211.2)	141.8 (127.6 to 155.4)	3,394.5 (3,105.7 to 3,680.3)	51.4 (45.1 to 58.3)	1,133.8 (1,004.0 to 1,273.1)	99.9 (88.7 to 110.9)	2,315.3 (2,097.2 to 2,547.8)
Iran	49.2 (41.8 to 56.8)	1,188.9 (994.3 to 1,386.8)	88.1 (71.1 to 106.2)	1,933.0 (1,549.0 to 2,364.6)	31.5 (26.6 to 36.4)	699.2 (583.7 to 817.0)	44.0 (35.0 to 54.1)	926.1 (729.5 to 1,147.9)
Iraq	30.2 (25.2 to 36.0)	677.0 (558.6 to 808.6)	52.5 (41.7 to 64.4)	1,263.5 (986.9 to 1,578.1)	25.5 (21.2 to 30.5)	535.5 (438.8 to 639.7)	43.3 (34.4 to 53.1)	966.3 (757.8 to 1,205.5)
Jordan	3.1 (2.6 to 3.7)	67.3 (57.0 to 79.8)	4.6 (4.0 to 5.3)	103.0 (88.7 to 117.7)	2.1 (1.8 to 2.5)	42.0 (35.2 to 50.2)	3.2 (2.7 to 3.7)	63.4 (53.9 to 73.4)
Kuwait	0.8 (0.7 to 0.9)	24.3 (21.3 to 27.3)	1.5 (1.2 to 1.8)	46.3 (38.4 to 56.0)	0.5 (0.4 to 0.5)	12.7 (10.8 to 14.6)	0.9 (0.8 to 1.1)	26.2 (21.5 to 32.0)
Lebanon	4.2 (3.4 to 5.1)	94.2 (76.1 to 115.2)	6.7 (5.0 to 8.4)	125.6 (94.2 to 159.5)	2.9 (2.3 to 3.6)	60.4 (48.7 to 73.3)	4.7 (4.0 to 6.0)	83.8 (62.0 to 107.3)
Libya	2.7 (2.2 to 3.1)	66.9 (56.1 to 77.7)	6.5 (5.4 to 7.6)	155.1 (130.6 to 179.4)	2.0 (1.7 to 2.4)	46.4 (38.6 to 54.3)	5.4 (4.5 to 6.3)	122.3 (103.6 to 142.7)
Morocco	23.1 (19.9 to 26.9)	577.9 (499.3 to						

Table 3. Estimated number of deaths and disability-adjusted life years (DALYs) in thousands related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mm Hg for all causes combined, ages ≥25, and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty intervals. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than 15 years, and the total fertility rate. SDI=Socio-demographic Index. (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)
Palestine	1.4 (1.1 to 1.8)	38.0 (29.7 to 48.8)	3.6 (2.8 to 4.4)	91.3 (70.5 to 114.2)	0.8 (0.6 to 1.0)	17.7 (13.2 to 23.2)	2.0 (1.6 to 2.5)	44.2 (33.4 to 56.0)
Oman	1.0 (0.7 to 1.3)	27.9 (21.1 to 36.1)	2.6 (2.1 to 3.0)	77.4 (64.1 to 90.4)	0.7 (0.5 to 0.9)	17.7 (13.2 to 23.0)	2.1 (1.7 to 2.5)	58.4 (48.3 to 68.7)
Qatar	0.2 (0.2 to 0.2)	5.9 (4.9 to 6.9)	0.5 (0.4 to 0.6)	15.7 (12.0 to 19.8)	0.1 (0.1 to 0.2)	3.5 (2.9 to 4.2)	0.3 (0.2 to 0.4)	9.7 (7.4 to 12.6)
Saudi Arabia	7.2 (6.2 to 8.3)	175.6 (148.7 to 203.3)	15.5 (13.5 to 17.5)	391.7 (338.2 to 448.7)	4.8 (4.1 to 5.6)	105.1 (88.5 to 122.1)	10.3 (8.9 to 11.7)	235.3 (202.4 to 271.5)
Sudan	25.2 (20.5 to 31.3)	661.6 (526.8 to 822.2)	46.3 (33.8 to 61.5)	1,167.6 (835.8 to 1,586.3)	19.0 (15.3 to 24.0)	461.1 (364.0 to 585.6)	34.6 (25.4 to 45.9)	811.1 (578.5 to 1,101.7)
Syria	12.3 (10.4 to 14.8)	312.0 (260.0 to 376.4)	18.3 (15.1 to 21.5)	413.4 (344.3 to 484.4)	8.7 (7.3 to 10.5)	200.1 (166.2 to 242.6)	12.8 (10.5 to 15.2)	266.6 (219.3 to 316.7)
Tunisia	5.9 (5.1 to 6.7)	133.2 (116.7 to 150.2)	10.2 (8.0 to 12.6)	208.0 (166.2 to 255.8)	3.8 (3.3 to 4.4)	67.5 (68.5 to 91.4)	6.5 (5.0 to 8.1)	123.2 (96.2 to 151.8)
Turkey	75.2 (65.8 to 85.0)	1,605.6 (1,407.9 to 1,813.0)	72.9 (63.9 to 81.7)	1,446.1 (1,294.8 to 1,598.3)	56.4 (48.9 to 64.4)	1,096.8 (954.3 to 1,251.9)	54.4 (46.9 to 61.7)	996.9 (878.5 to 1,107.5)
United Arab Emirates	1.1 (0.9 to 1.5)	38.0 (28.6 to 52.8)	5.3 (3.8 to 7.2)	190.4 (134.8 to 258.8)	0.8 (0.6 to 1.1)	25.3 (18.9 to 35.0)	2.9 (2.1 to 4.0)	69.0 (69.0 to 136.8)
Yemen	12.8 (7.9 to 19.3)	332.3 (201.0 to 507.5)	27.3 (16.4 to 44.6)	713.0 (423.7 to 1,186.7)	7.7 (4.8 to 11.5)	178.3 (106.8 to 271.1)	16.1 (9.8 to 25.7)	375.4 (221.7 to 612.8)
South Asia	1,003.6 (895.9 to 1,119.2)	25,649.9 (22,887.3 to 28,705.5)	2,097.0 (1,879.6 to 2,319.9)	49,198.4 (44,123.9 to 54,512.3)	565.3 (501.7 to 637.2)	13,126.2 (11,643.9 to 14,754.8)	1,304.4 (1,158.8 to 1,462.8)	27,991.3 (24,903.3 to 31,258.3)
South Asia	1,003.6 (895.9 to 1,119.2)	25,649.9 (22,887.3 to 28,705.5)	2,097.0 (1,879.6 to 2,319.9)	49,198.4 (44,123.9 to 54,512.3)	565.3 (501.7 to 637.2)	13,126.2 (11,643.9 to 14,754.8)	1,304.4 (1,158.8 to 1,462.8)	27,991.3 (24,903.3 to 31,258.3)
Bangladesh	56.1 (48.1 to 64.8)	1,581.4 (1,363.3 to 1,813.3)	165.0 (136.9 to 194.4)	3,892.3 (3,232.2 to 4,595.6)	27.6 (23.1 to 32.4)	88.9 (57.3 to 805.4)	88.9 (73.1 to 106.7)	1,874.5 (1,539.6 to 2,244.1)
Bhutan	0.4 (0.3 to 0.5)	9.7 (7.6 to 12.3)	0.7 (0.5 to 0.8)	14.3 (10.9 to 17.8)	0.2 (0.2 to 0.3)	5.5 (4.3 to 7.1)	0.4 (0.3 to 0.5)	8.3 (6.3 to 10.2)
India	812.4 (723.6 to 906.8)	20,890.0 (18,631.5 to 23,346.0)	1,638.1 (1,464.4 to 1,811.0)	38,670.4 (34,701.0 to 42,654.8)	9.1 (397.9 to 504.6)	22.0 (9,309.6 to 11,858.8)	22.2 (900.2 to 1,130.4)	479.3 (19,658.0 to 24,566.5)
Nepal	13.9 (11.1 to 17.4)	365.6 (291.2 to 454.3)	29.1 (22.5 to 36.3)	665.5 (507.5 to 835.2)	7.0 (7.0 to 11.3)	172.1 (17.2 to 278.3)	22.2 (17.3 to 27.6)	367.0 (367.0 to 598.3)
Pakistan	120.8 (101.5 to 142.4)	2,803.1 (2,344.2 to 3,325.6)	264.2 (223.6 to 315.0)	5,956.0 (4,977.9 to 7,168.3)	79.3 (66.4 to 94.3)	1,686.8 (1,408.5 to 2,000.4)	180.5 (150.2 to 216.2)	3,610.1 (3,009.1 to 4,377.9)
Sub-Saharan Africa	360.1 (321.1 to 402.8)	9,120.8 (8,108.2 to 10,338.3)	637.9 (558.3 to 730.5)	15,888.4 (13,922.5 to 18,257.1)	243.1 (217.5 to 273.8)	5,583.2 (4,970.7 to 6,350.0)	467.3 (409.8 to 535.8)	10,764.4 (9,397.8 to 12,411.4)
Southern Sub-Saharan Africa	56.2 (50.2 to 62.5)	1,157.9 (1,035.1 to 1,290.3)	93.7 (82.9 to 105.9)	1,953.8 (1,713.3 to 2,223.6)	44.1 (39.4 to 49.1)	836.4 (746.3 to 936.1)	74.6 (65.8 to 84.1)	1,455.4 (1,275.7 to 1,658.7)
Botswana	1.0 (0.4 to 2.4)	26.1 (10.0 to 63.1)	2.5 (1.0 to 7.0)	61.5 (23.9 to 191.1)	0.8 (0.3 to 1.9)	19.5 (7.6 to 46.2)	2.0 (0.8 to 5.4)	45.7 (18.0 to 140.2)
Lesotho	1.5 (1.0 to 2.0)	33.0 (22.6 to 43.6)	3.4 (2.0 to 5.2)	75.5 (40.9 to 122.4)	1.1 (0.8 to 1.5)	22.8 (15.8 to 30.3)	2.6 (1.5 to 3.9)	53.2 (30.1 to 86.2)
Namibia	1.4 (1.1 to 1.6)	31.1 (25.4 to 37.4)	1.8 (1.1 to 2.8)	41.4 (25.4 to 66.7)	1.0 (0.8 to 1.2)	22.2 (18.2 to 26.8)	1.4 (0.9 to 2.1)	29.7 (18.3 to 47.6)
South Africa	46.8 (41.8 to 51.8)	938.5 (842.8 to 1,036.7)	75.1 (66.5 to 84.8)	1,518.6 (1,342.9 to 1,713.5)	36.9 (32.9 to 41.0)	682.2 (613.7 to 756.2)	60.1 (53.2 to 68.1)	1,145.2 (1,010.0 to 1,288.4)
Swaziland	0.7 (0.5 to 0.9)	16.5 (11.4 to 22.2)	1.7 (0.8 to 2.8)	39.6 (17.9 to 68.8)	0.5 (0.4 to 0.7)	11.5 (7.9 to 15.4)	1.3 (0.7 to 2.2)	29.6 (13.8 to 51.1)
Zimbabwe	4.8 (3.6 to 6.1)	112.6 (84.4 to 143.6)	9.3 (5.3 to 14.3)	217.1 (124.5 to 344.2)	3.7 (2.8 to 4.7)	78.2 (58.9 to 97.9)	7.3 (4.4 to 11.2)	152.1 (89.3 to 240.2)
Western Sub-Saharan Africa	112.3 (94.3 to 135.1)	3,094.1 (2,628.2 to 3,710.7)	202.4 (168.0 to 248.7)	5,593.7 (4,663.0 to 6,846.4)	71.6 (60.7 to 85.9)	1,765.6 (1,497.2 to 2,109.5)	146.5 (121.7 to 181.2)	3,660.8 (3,032.7 to 4,493.9)
Benin	3.0 (2.5 to 3.5)	79.0 (65.8 to 93.8)	7.4 (4.0 to 12.4)	207.1 (113.5 to 348.5)	1.9 (1.5 to 2.3)	44.0 (36.0 to 52.5)	4.6 (2.4 to 7.8)	114.3 (61.5 to 195.2)
Burkina Faso	4.6 (3.8 to 5.6)	127.9 (104.7 to 154.5)	9.0 (5.5 to 14.3)	244.7 (151.7 to 389.4)	3.0 (2.4 to 3.7)	72.4 (58.9 to 89.3)	5.8 (3.5 to 9.3)	139.5 (85.5 to 221.9)
Cameroon	7.4 (6.0 to 8.9)	189.8 (155.9 to 231.2)	16.1 (9.3 to 26.7)	434.5 (257.0 to 725.7)	3.8 (3.0 to 4.6)	84.9 (68.2 to 104.4)	9.8 (5.7 to 16.4)	249.9 (141.5 to 419.0)
Cape Verde	0.3 (0.3 to 0.3)	7.2 (6.6 to 7.9)	0.5 (0.5 to 0.7)	11.5 (9.8 to 13.8)	0.3 (0.2 to 0.3)	5.9 (5.3 to 6.4)	0.5 (0.4 to 0.6)	9.2 (7.8 to 11.1)
Chad	3.1 (2.5 to 3.8)	80.8 (65.2 to 96.8)	7.8 (4.0 to 13.2)	213.8 (112.5 to 362.2)	2.1 (1.7 to 2.5)	47.2 (38.0 to 57.3)	5.2 (2.7 to 8.6)	126.0 (64.9 to 212.6)
Cote d'Ivoire	10.0 (8.1 to 12.2)	285.2 (229.5 to 347.3)	19.1 (11.3 to 29.9)	532.6 (314.4 to 853.1)	7.9 (6.4 to 9.7)	205.8 (162.9 to 254.2)	15.2 (9.0 to 23.9)	390.7 (229.0 to 627.8)
The Gambia	0.5 (0.3 to 0.8)	13.5 (8.4 to 21.4)	1.0 (0.7 to 1.4)	26.5 (18.3 to 38.0)	0.4 (0.2 to 0.6)	8.9 (5.5 to 14.3)	0.8 (0.5 to 1.1)	19.3 (13.3 to 27.7)
Ghana	12.0 (8.1 to 16.8)	329.1 (224.5 to 461.9)	23.1 (12.8 to 38.3)	599.8 (330.4 to 993.8)	8.9 (6.0 to 12.6)	226.7 (152.5 to 320.4)	16.6 (9.1 to 28.0)	390.4 (213.6 to 669.9)
Guinea	4.0 (3.3 to 4.8)	108.1 (89.4 to 129.0)	9.5 (6.1 to 13.9)	259.5 (170.3 to 380.2)	2.5 (2.1 to 3.1)	60.8 (49.9 to 73.5)	6.5 (4.2 to 9.6)	163.8 (105.7 to 243.1)
Guinea-Bissau	1.0 (0.4 to 2.2)	26.6 (10.6 to 61.2)	1.8 (0.7 to 4.9)	52.5 (19.9 to 147.8)	0.7 (0.3 to 1.5)	17.0 (6.6 to 38.4)	1.3 (0.5 to 3.5)	34.5 (12.7 to 95.9)
Liberia	1.4 (1.0 to 1.9)	39.5 (29.3 to 52.5)	2.8 (1.7 to 4.1)	76.1 (48.0 to 111.9)	1.0 (0.7 to 1.4)	26.2 (19.3 to 35.8)	2.1 (1.3 to 3.1)	53.7 (33.3 to 78.2)
Mali	6.3 (5.3 to 7.6)	166.7 (139.8 to 200.7)	8.6 (5.3 to 13.4)	234.8 (149.2 to 364.2)	3.9 (3.1 to 4.7)	88.6 (72.3 to 109.3)	5.4 (3.3 to 8.7)	129.2 (77.9 to 209.8)
Mauritania	1.5 (1.2 to 1.8)	39.5 (32.4 to 46.9)	2.2 (1.2 to 3.3)	57.2 (34.9 to 86.6)	1.1 (0.9 to 1.3)	25.6 (20.6 to 30.6)	1.6 (0.9 to 2.5)	38.6 (23.3 to 58.1)
Niger	3.7 (3.0 to 4.6)	112.2 (92.0 to 136.0)	10.0 (6.2 to 15.1)	278.7 (180.9 to 412.4)	2.6 (2.1 to 3.2)	66.6 (53.9 to 82.2)	7.4 (4.6 to 11.2)	186.1 (119.3 to 279.3)
Nigeria	43.6 (29.7 to 64.1)	1,215.1 (845.2 to 1,764.5)	62.5 (43.4 to 99.9)	1,793.8 (1,294.0 to 2,731.6)	24.1 (16.2 to 35.7)	596.2 (404.4 to 874.5)	47.1 (32.7 to 75.5)	1,205.5 (860.1 to 1,831.6)
Sao Tome and Principe	0.1 (0.1 to 0.1)	2.9 (2.5 to 3.4)	0.2 (0.1 to 0.3)	4.9 (2.9 to 7.7)	0.1 (0.1 to 0.1)	2.2 (1.8 to 2.6)	0.2 (0.1 to 0.3)	3.8 (2.2 to 6.0)
Senegal	4.7 (3.8 to 5.7)	128.2 (105.3 to 155.2)	11.0 (6.1 to 18.1)	283.3 (159.6 to 469.6)	3.7 (2.9 to 4.5)	89.5 (72.6 to 109.6)	8.8 (4.9 to 14.5)	209.1 (116.6 to 348.9)
Sierra Leone	2.4 (1.6 to 3.5)	73.7 (50.1 to 104.0)	4.8 (3.0 to 7.1)	140.9 (90.7 to 208.8)	1.9 (1.2 to 2.7)	51.3 (34.3 to 72.9)	3.8 (2.3 to 5.6)	101.0 (63.6 to 150.7)
Togo	2.6 (2.1 to 3.2)	69.1 (56.3 to 83.5)	5.1 (3.1 to 7.6)	141.3 (88.2 to 214.0)	1.9 (1.5 to 2.4)	46.0 (34.9 to 56.4)	3.9 (2.4 to 5.7)	96.1 (79.7 to 144.4)
Eastern Sub-Saharan Africa	147.5 (128.2 to 168.8)	3,748.8 (3,247.9 to 4,324.5)	147.5 (210.4 to 309.1)	6,165.7 (5,076.1 to 7,584.4)	97.4 (84.4 to 111.9)	2,248.6 (1,942.1 to 2,613.9)	185.5 (153.8 to 225.7)	4,180.3 (3,439.4 to 5,123.1)
Burundi	8.1 (5.2 to 11.3)	213.8 (131.5 to 313.0)	7.3 (4.3 to 11.5)	185.3 (110.1 to 294.9)	5.4 (3.4 to 7.4)	127.7 (80.3 to 183.8)	5.3 (3.2 to 8.4)	124.8 (74.7 to 198.1)
Comoros	0.4 (0.2 to 0.6)	11.0 (6.3 to 17.1)	0.5 (0.3 to 0.7)	12.2 (7.9 to 18.4)	0.3 (0.2 to 0.5)	7.7 (4.5 to 11.8)	0.4 (0.2 to 0.5)	8.6 (5.7 to 12.9)
Djibouti	0.4 (0.2 to 0.6)	10.2 (6.3 to 15.9)	0.9 (0.5 to 1.5)	21.9 (11.4 to 39.9)	0.2 (0.2 to 0.4)	6.0 (3.8 to 9.4)	0.6 (0.3 to 1.1)	14.9 (7.8 to 27.3)
Eritrea	2.0 (1.6 to 2.5)	60.4 (46.6 to 76.2)	3.5 (1.7 to 6.1)	91.5 (44.1 to 166.2)	1.1 (0.9 to 1.4)	29.3 (22.8 to 37.7)	2.0 (1.0 to 3.4)	47.3 (22.8 to 85.6)
Ethiopia	46.7 (38.4 to 55.7)	1,151.8 (928.8 to 1,393.7)	66.0 (40.9 to 100.1)	1,483.1 (916.3 to 2,297.3)	25.6 (20.7 to 31.4)	550.0 (433.2 to 680.4)	42.9 (26.9 to 65.0)	868.4 (539.3 to 1,355.6)
Kenya	9.1 (7.8 to 10.7)	217.8 (185.8 to 256.8)	19.3 (16.5 to 22.3)	483.6 (411.0 to 564.1)	6.5 (5.5 to 7.7)	140.7 (119.6 to 167.2)	14.3 (12.2 to 16.6)	329.0 (279.8 to 386.2)
Madagascar	12.5 (10.7 to 14.4)	322.1 (274.2 to 374.2)	25.3 (14.7 to 38.5)	660.1 (366.7 to 1,036.9)				

Table 3. Estimated number of deaths and disability-adjusted life years (DALYs) in thousands related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined, ages ≥25, and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty intervals. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index. (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)	Deaths (in thousands)	DALYs (in thousands)
Rwanda	6.5 (5.1 to 8.3)	172.1 (133.0 to 219.1)	6.4 (4.0 to 10.2)	154.1 (98.4 to 247.7)	4.4 (3.4 to 5.5)	104.5 (80.2 to 133.2)	4.4 (2.7 to 6.9)	95.4 (60.2 to 152.9)
Somalia	6.7 (2.1 to 13.5)	176.0 (55.3 to 379.8)	9.3 (3.1 to 19.8)	240.7 (79.0 to 566.3)	4.5 (1.5 to 8.8)	107.2 (34.3 to 226.0)	6.8 (2.3 to 14.0)	163.9 (54.6 to 369.5)
South Sudan	4.7 (1.6 to 10.2)	127.0 (44.7 to 290.6)	10.3 (3.9 to 25.2)	259.0 (98.4 to 694.6)	3.1 (1.1 to 6.7)	77.7 (27.2 to 175.4)	7.6 (2.9 to 18.4)	179.4 (68.5 to 473.8)
Tanzania	15.4 (12.3 to 18.6)	393.8 (316.4 to 475.4)	33.4 (19.4 to 56.9)	799.6 (465.4 to 1,357.7)	10.0 (7.9 to 12.3)	232.1 (184.9 to 284.6)	25.6 (15.0 to 43.3)	585.5 (340.2 to 989.9)
Uganda	13.3 (8.9 to 16.8)	332.9 (219.5 to 426.3)	22.7 (12.6 to 35.0)	556.1 (297.1 to 881.6)	10.3 (7.0 to 13.0)	243.3 (160.7 to 310.3)	16.5 (9.1 to 25.3)	371.6 (201.1 to 583.7)
Zambia	4.8 (3.6 to 5.9)	118.1 (89.5 to 145.3)	13.0 (8.4 to 18.5)	324.2 (205.2 to 476.4)	3.2 (2.5 to 4.0)	71.4 (54.2 to 89.4)	9.4 (6.2 to 13.4)	216.7 (135.5 to 314.8)
Central Sub-Saharan Africa	44.1 (31.6 to 59.2)	1,120.0 (801.8 to 1,527.5)	87.4 (58.1 to 124.8)	2,175.2 (1,436.6 to 3,159.8)	29.9 (21.6 to 40.2)	732.5 (522.6 to 998.9)	60.7 (40.3 to 87.1)	1,467.8 (958.4 to 2,146.9)
Angola	10.8 (3.1 to 21.5)	292.4 (82.7 to 620.5)	19.7 (7.5 to 48.7)	520.6 (191.9 to 1,394.9)	7.6 (2.3 to 14.9)	195.8 (56.2 to 409.3)	14.4 (5.5 to 36.2)	364.5 (134.8 to 971.4)
Central African Republic	4.3 (3.4 to 5.3)	104.8 (82.5 to 130.3)	7.4 (3.8 to 11.6)	186.6 (88.7 to 306.9)	3.1 (2.4 to 3.8)	71.4 (55.0 to 90.2)	5.4 (2.7 to 8.5)	131.0 (61.7 to 215.5)
Congo	3.4 (2.6 to 4.4)	82.3 (62.0 to 106.7)	5.0 (3.0 to 7.5)	115.4 (68.1 to 181.2)	2.4 (1.8 to 3.1)	55.4 (40.6 to 72.8)	3.6 (2.2 to 5.4)	80.1 (47.8 to 124.5)
Democratic Republic of the Congo	23.3 (15.2 to 33.9)	590.2 (379.1 to 844.7)	52.7 (32.5 to 77.2)	1,295.9 (794.5 to 1,925.2)	15.1 (9.7 to 22.0)	373.6 (237.0 to 538.8)	35.2 (21.6 to 51.8)	850.8 (519.1 to 1,252.9)
Equatorial Guinea	0.6 (0.2 to 1.2)	15.9 (4.6 to 31.9)	0.7 (0.3 to 1.8)	17.4 (8.2 to 49.6)	0.5 (0.1 to 0.8)	10.9 (3.2 to 21.6)	0.5 (0.2 to 1.3)	12.4 (5.8 to 34.7)
Gabon	1.6 (1.3 to 2.0)	34.4 (27.6 to 42.0)	1.9 (1.3 to 2.9)	39.3 (25.5 to 60.6)	1.2 (1.0 to 1.5)	25.4 (20.4 to 31.5)	1.5 (1.0 to 2.3)	29.0 (18.9 to 44.8)

Table 4. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Global	225.1 (200.0 to 247.3)	4,096.6 (3,715.5 to 4,465.4)	169.7 (151.3 to 187.6)	3,152.3 (2,867.2 to 3,438.8)	167.0 (147.3 to 185.6)	2,764.9 (2,506.1 to 3,028.0)	125.5 (111.3 to 140.1)	2,162.6 (1,963.0 to 2,368.9)
High SDI	207.1 (182.3 to 229.0)	3,578.2 (3,265.3 to 3,875.5)	114.5 (100.0 to 127.5)	1,974.8 (1,772.8 to 2,157.3)	172.1 (150.8 to 192.0)	2,799.1 (2,524.3 to 3,042.2)	85.9 (74.9 to 96.5)	1,374.7 (1,227.4 to 1,512.7)
High-middle SDI	244.5 (216.9 to 270.9)	4,353.5 (3,930.4 to 4,763.9)	181.0 (160.1 to 200.2)	3,156.2 (2,870.5 to 3,432.1)	178.5 (158.1 to 199.5)	2,912.6 (2,633.2 to 3,208.7)	139.9 (123.3 to 156.0)	2,293.9 (2,075.8 to 2,521.3)
Middle SDI	226.6 (202.8 to 250.4)	4,251.5 (3,829.2 to 4,690.1)	199.4 (177.5 to 220.7)	3,649.3 (3,313.4 to 4,002.8)	140.8 (134.2 to 168.7)	2,383.1 (2,311.3 to 2,866.7)	139.8 (132.8 to 166.7)	2,541.0 (2,315.8 to 2,818.8)
Low-middle SDI	208.3 (185.2 to 232.4)	4,131.9 (3,703.8 to 4,590.1)	209.7 (186.9 to 234.5)	4,825.1 (3,698.2 to 4,538.3)	130.2 (113.6 to 146.7)	2,120.3 to 2,664.9 (2,120.3 to 2,664.9)	123.9 (123.9 to 156.8)	2,839.7 (2,779.2 to 2,839.7)
Low SDI	261.8 (233.8 to 295.3)	5,323.3 (4,708.3 to 5,988.6)	239.9 (208.7 to 277.1)	4,825.1 (4,198.6 to 5,571.3)	187.5 (165.4 to 211.5)	3,132.6 to 3,983.2 (3,132.6 to 3,983.2)	177.2 (153.6 to 204.7)	3,371.7 (2,928.9 to 3,899.6)
High-income	173.2 (152.9 to 191.7)	2,886.6 (2,623.5 to 3,133.7)	84.4 (73.7 to 95.3)	1,358.5 (1,212.6 to 1,499.8)	143.0 (125.5 to 159.3)	2,219.0 (1,994.6 to 2,420.2)	59.2 (51.1 to 67.2)	855.0 (761.7 to 952.7)
High-income North America	163.7 (140.8 to 184.6)	2,817.7 (2,517.3 to 3,108.2)	89.7 (76.8 to 102.4)	1,545.6 (1,367.8 to 1,725.0)	125.3 (106.9 to 142.9)	1,923.3 (1,705.7 to 2,145.7)	55.5 (46.7 to 64.7)	814.3 (705.2 to 923.5)
Canada	141.2 (120.4 to 160.7)	2,336.4 (2,079.0 to 2,574.3)	63.9 (52.6 to 74.5)	1,019.6 (883.8 to 1,150.5)	110.1 (93.0 to 126.7)	1,678.2 (1,483.8 to 1,878.4)	38.7 (31.6 to 45.9)	560.9 (479.8 to 643.3)
Greenland	191.3 (160.2 to 223.1)	3,563.6 (3,033.2 to 4,107.9)	111.4 (94.8 to 130.1)	1,969.1 (1,676.1 to 2,268.0)	99.8 (81.8 to 119.1)	1,631.7 (1,371.5 to 1,912.6)	54.9 (45.5 to 65.5)	866.6 (733.3 to 1,020.6)
United States	166.0 (142.8 to 187.1)	2,869.7 (2,564.7 to 3,163.1)	92.8 (79.7 to 105.8)	1,608.7 (1,425.1 to 1,790.8)	126.8 (108.3 to 144.5)	1,948.9 (1,729.3 to 2,173.2)	57.6 (48.6 to 66.9)	844.9 (732.7 to 956.2)
Australasia	179.4 (156.7 to 202.4)	2,885.0 (2,580.1 to 3,129.7)	76.0 (64.4 to 87.8)	1,109.4 (97.3 to 123.9)	148.3 (128.3 to 168.1)	2,234.3 (2,004.1 to 2,467.4)	51.5 (43.1 to 60.4)	705.5 (612.5 to 797.1)
Australia	177.3 (154.4 to 200.3)	2,795.4 (2,510.7 to 3,061.9)	73.6 (62.3 to 85.7)	1,068.0 (93.0 to 1,192.8)	146.3 (126.2 to 165.9)	2,177.7 (1,951.2 to 2,403.9)	48.9 (40.8 to 57.7)	665.8 (576.1 to 757.5)
New Zealand	190.6 (166.6 to 212.9)	3,225.7 (2,918.0 to 3,518.1)	88.5 (75.4 to 101.7)	1,327.3 (1,177.2 to 1,479.0)	159.0 (138.4 to 178.5)	2,520.1 (2,261.9 to 2,771.6)	65.6 (55.2 to 76.7)	915.6 (807.7 to 1,029.9)
High-income Asia Pacific	192.5 (131.8 to 161.8)	3,760.6 (2,250.8 to 2,665.9)	129.1 (55.1 to 69.9)	2,276.7 (916.5 to 1,137.0)	161.8 (109.6 to 135.7)	2,895.7 (1,745.8 to 2,078.4)	90.4 (87.7 to 49.6)	1,450.8 (598.6 to 743.0)
Brunei	195.4 (173.3 to 217.5)	3,760.6 (3,411.6 to 4,154.4)	214.9 (114.2 to 144.3)	2,149.4 (2,043.8 to 2,505.6)	142.1 to 180.8 (142.1 to 180.8)	2,614.7 to 3,207.9 (2,614.7 to 3,207.9)	72.5 (77.9 to 103.2)	1,279.8 to 1,621.3 (1,279.8 to 1,621.3)
Japan	132.4 (118.6 to 145.6)	2,149.4 (1,971.6 to 2,320.8)	62.4 (55.2 to 69.9)	1,052.7 (942.5 to 1,162.0)	115.3 (103.0 to 127.4)	1,781.1 (1,630.9 to 1,924.9)	46.3 (40.6 to 51.9)	725.1 (649.8 to 804.7)
Singapore	192.5 (173.6 to 210.6)	3,716.4 (3,389.7 to 4,007.1)	94.8 (83.8 to 105.2)	1,608.6 (1,452.4 to 1,757.7)	157.9 (141.0 to 174.7)	2,928.7 (2,662.9 to 3,181.6)	78.2 (68.6 to 87.5)	1,261.3 (1,135.9 to 1,379.4)
South Korea	241.9 (212.8 to 272.5)	4,114.5 (3,679.2 to 4,528.8)	60.9 (51.7 to 70.9)	938.6 (816.5 to 1,065.2)	172.0 (149.2 to 197.0)	2,681.6 (2,376.0 to 3,008.7)	31.4 (26.1 to 37.9)	443.9 (377.4 to 516.0)
Western Europe	195.9 (163.1 to 201.9)	1,560.8 (2,752.5 to 3,259.9)	60.8 (75.6 to 97.5)	938.1 (1,160.2 to 1,427.7)	157.8 (139.4 to 174.7)	2,477.6 (2,250.8 to 2,689.8)	64.3 (55.5 to 73.2)	902.5 (803.5 to 1,003.6)
Andorra	206.6 (81.1 to 111.2)	3,284.3 (1,326.0 to 1,773.9)	110.7 (51.2 to 71.2)	1,538.7 (810.8 to 1,063.3)	176.7 (69.7 to 97.3)	2,685.7 (1,098.1 to 1,482.9)	91.3 (89.3 to 57.1)	1,202.1 (593.7 to 804.9)
Austria	181.4 (181.4 to 231.3)	2,963.0 (2,963.0 to 3,572.0)	94.4 (94.4 to 126.2)	1,265.8 (1,371.5 to 1,708.3)	108.4 (150.3 to 201.2)	2,952.4 (2,387.6 to 2,952.4)	59.3 (52.7 to 107.3)	892.6 (1,054.1 to 1,351.1)
Belgium	148.7 (127.6 to 169.4)	2,419.5 (2,132.4 to 2,678.7)	79.8 (68.9 to 92.4)	1,052.7 (1,122.3 to 1,408.2)	164.0 (90.4 to 126.7)	2,179.0 (1,427.1 to 1,862.4)	50.0 (50.0 to 70.1)	892.6 (780.9 to 1,014.3)
Cyprus	227.0 (196.9 to 254.6)	3,469.0 (3,105.3 to 3,797.7)	87.7 (77.0 to 98.6)	1,508.5 (1,344.0 to 1,667.9)	187.3 (160.2 to 215.0)	2,470.8 (2,047.8 to 3,027.8)	64.3 (59.1 to 78.8)	1,113.9 (980.5 to 1,253.7)
Denmark	205.0 (178.9 to 229.8)	3,364.5 (3,034.2 to 3,680.1)	93.3 (80.9 to 106.8)	1,405.7 (1,259.4 to 1,554.2)	176.0 (153.4 to 199.3)	2,743.3 (2,465.4 to 3,021.7)	78.5 (66.8 to 90.4)	1,127.4 (995.3 to 1,261.4)
Finland	246.8 (218.1 to 271.7)	4,352.1 (3,994.2 to 4,668.0)	116.1 (98.6 to 132.1)	1,800.5 (1,613.6 to 1,980.7)	227.4 (195.3 to 252.7)	3,191.9 (3,521.9 to 4,236.1)	100.9 (83.3 to 115.9)	1,485.3 (1,310.0 to 1,653.1)
France	117.8 (103.7 to 131.1)	1,962.0 (1,773.9 to 2,148.4)	62.4 (53.6 to 71.9)	1,028.0 (910.5 to 1,155.2)	94.6 (82.7 to 106.1)	1,497.5 (1,349.1 to 1,644.6)	42.9 (35.3 to 51.3)	685.9 (597.4 to 776.7)
Germany	199.4 (170.6 to 214.7)	3,737.5 (2,885.2 to 3,492.7)	110.4 (71.6 to 94.1)	1,538.1 (1,085.8 to 1,354.4)	202.1 (174.9 to 227.3)	3,193.6 (2,859.0 to 3,475.2)	88.0 (74.0 to 101.7)	1,100.3 (960.2 to 1,234.8)
Greece	195.4 (171.3 to 219.7)	3,760.3 (2,709.3 to 3,326.3)	121.5 (102.8 to 137.7)	1,836.5 (1,617.5 to 2,053.1)	150.4 (129.9 to 171.6)	2,161.9 (1,895.7 to 2,411.5)	90.5 (73.9 to 105.4)	1,244.4 (593.7 to 804.9)
Iceland	138.4 (115.6 to 160.6)	2,182.4 (1,889.7 to 2,448.1)	70.9 (58.6 to 83.1)	1,056.4 (918.3 to 1,191.7)	96.0 (77.5 to 116.5)	1,385.3 (1,173.8 to 1,603.5)	50.1 (50.1 to 65.5)	690.6 (591.4 to 799.1)
Ireland	200.3 (173.2 to 224.5)	3,468.2 (3,092.3 to 3,824.5)	91.3 (77.5 to 105.9)	1,381.4 (1,223.9 to 1,533.0)	179.2 (150.9 to 204.1)	2,968.5 (2,598.1 to 3,300.6)	72.9 (68.3 to 86.2)	1,038.2 (901.5 to 1,168.4)
Israel	192.9 (170.6 to 214.7)	3,213.2 (2,885.2 to 3,497.2)	82.9 (71.6 to 94.1)	1,216.3 (1,085.8 to 1,354.4)	161.1 (140.3 to 179.8)	2,519.9 (2,045.8 to 2,763.6)	66.5 (56.5 to 76.2)	904.6 (894.7 to 1,019.2)
Italy	178.2 (160.2 to 195.3)	2,759.8 (2,534.8 to 2,965.2)	87.9 (76.2 to 99.6)	1,227.4 (1,096.0 to 1,351.5)	160.8 (136.8 to 178.2)	2,376.2 (2,131.2 to 2,573.8)	62.9 (53.7 to 73.4)	834.0 (739.2 to 929.9)
Luxembourg	206.2 (182.3 to 229.1)	3,406.3 (3,095.0 to 3,709.9)	83.6 (74.0 to 93.6)	1,331.0 (1,199.4 to 1,464.6)	178.8 (156.8 to 201.8)	2,830.3 (2,536.3 to 3,095.5)	72.0 (64.6 to 80.5)	1,096.6 (966.4 to 1,218.3)
Malta	211.9 (187.6 to 232.6)	3,535.0 (3,202.2 to 3,838.0)	112.3 (97.3 to 126.0)	1,683.1 (1,506.5 to 1,847.7)	193.1 (164.0 to 214.8)	3,118.7 (2,782.4 to 3,410.1)	101.7 (83.1 to 115.8)	1,454.9 (1,285.0 to 1,614.6)
Netherlands	152.7 (133.4 to 170.7)	3,269.2 (2,294.3 to 2,821.2)	81.4 (73.8 to 94.4)	1,220.6 (1,172.7 to 1,500.3)	172.0 (104.6 to 136.8)	2,804.7 (1,671.3 to 2,113.7)	63.9 (62.2 to 82.7)	939.7 (931.2 to 1,176.0)
Norway	200.2 (171.8 to 216.0)	3,415.5 (2,959.9 to 3,542.5)	82.0 (69.1 to 93.5)	1,305.6 (1,079.3 to 1,359.9)	164.0 (151.1 to 192.6)	2,539.7 (2,539.7 to 3,051.3)	56.0 (53.1 to 75.1)	870.1 (820.6 to 1,062.0)
Portugal	144.1 (174.3 to 225.1)	2,276.1 (3,094.7 to 3,732.7)	67.3 (70.8 to 93.2)	1,071.2 (1,161.6 to 1,454.5)	131.8 (131.8 to 176.2)	2,368.7 (2,368.7 to 2,904.9)	46.8 (47.9 to 65.4)	713.6 (768.7 to 976.9)
Spain	161.1 (126.6 to 161.9)	2,500.5 (2,042.8 to 2,504.3)	74.2 (58.0 to 76.4)	1,230.7 (953.2 to 1,186.7)	197.9 (97.9 to 130.5)	2,162.4 (1,444.8 to 1,808.3)	46.8 (39.5 to 55.4)	626.8 to 804.5 (626.8 to 804.5)
Sweden	176.0 (149.6 to 199.6)	2,776.5 (2,485.9 to 3,064.2)	98.8 (82.4 to 114.1)	1,341.7 (1,172.7 to 1,500.3)	144.5 (121.0 to 168.0)	2,184.1 (1,922.2 to 2,440.5)	77.3 (63.1 to 91.6)	978.6 (850.3 to 1,105.0)
Switzerland	125.4 (105.9 to 145.3)	2,002.4 (1,757.1 to 2,244.4)	68.6 (56.6 to 80.9)	922.6 (793.9 to 1,045.7)	85.4 (70.1 to 101.8)	1,319.5 (1,134.4 to 1,511.8)	46.3 (36.9 to 57.2)	570.8 (487.2 to 670.7)
United Kingdom	215.9 (193.8 to 236.1)	3,761.2 (3,440.4 to 4,043.5)	77.8 (67.5 to 88.3)	1,293.3 (1,148.9 to 1,434.1)	195.4 (172.9 to 215.3)	2,376.5 (2,990.2 to 3,535.1)	53.9 (51.6 to 62.1)	1,045.9 (748.6 to 947.5)
England	213.5 (191.6 to 230.3)	3,700.1 (3,393.8 to 3,968.8)	74.2 (64.5 to 84.6)	1,230.7 (1,088.3 to 1,371.0)	195.4 (172.6 to 214.9)	2,366.2 (2,978.6 to 3,522.0)	72.6 (62.9 to 80.8)	1,053.9 (690.6 to 883.1)
Northern Ireland	236.5 (210.7 to 259.5)	4,169.2 (3,769.2 to 4,496.5)	105.2 (91.1 to 117.5)	1,706.1 (1,530.2 to 1,885.9)	211.8 (178.3 to 235.9)	3,549.6 (3,166.3 to 3,885.2)	92.3 (92.3 to 104.9)	1,412.3 (1,248.6 to 1,570.8)
Scotland	232.7 (204.5 to 259.4)	4,212.6 (3,790.7 to 4,618.4)	96.1 (82.7 to 108.5)	1,622.6 (1,435.3 to 1,809.2)	192.2 (165.8 to 216.9)	3,528.4 (2,960.7 to 3,694.9)	70.6 (59.7 to 81.0)	1,116.7 (972.7 to 1,256.2)
Wales	216.3 (191.5 to 237.8)	3,782.6 (3,448.8 to 4,087.8)	91.3<br/					

Table 4. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Lithuania	326.4 (277.6 to 369.2)	5,715.4 (5,169.9 to 6,206.7)	223.0 (191.0 to 251.1)	3,919.5 (3,530.1 to 4,285.0)	288.3 (239.3 to 328.6)	4,880.6 (4,353.3 to 5,345.5)	193.1 (161.4 to 218.9)	3,268.1 (2,884.4 to 3,592.1)
Moldova	391.7 (335.0 to 441.6)	6,616.4 (5,985.8 to 7,207.7)	312.7 (270.1 to 350.7)	5,079.4 (4,588.0 to 5,514.2)	335.2 (280.3 to 383.7)	5,472.6 (4,843.3 to 6,068.3)	280.6 (236.2 to 318.6)	4,420.8 (3,924.2 to 4,832.3)
Russia	359.6 (314.5 to 401.4)	6,454.6 (5,857.8 to 6,999.1)	308.7 (268.4 to 341.7)	5,763.3 (5,172.4 to 6,292.9)	299.5 (252.9 to 337.1)	5,165.5 (4,666.0 to 5,639.2)	255.5 (220.4 to 286.9)	4,501.7 (4,011.1 to 4,938.8)
Ukraine	378.4 (327.9 to 424.0)	6,500.1 (5,901.2 to 7,055.7)	368.4 (316.6 to 415.4)	6,411.1 (5,751.5 to 7,000.6)	335.4 (286.0 to 379.4)	5,590.7 (4,978.6 to 6,109.7)	326.9 (278.1 to 373.4)	5,521.5 (4,932.0 to 6,096.2)
Central Europe	360.3 (318.9 to 395.8)	6,289.0 (5,762.0 to 6,747.0)	213.7 (188.5 to 235.7)	3,534.2 (3,228.6 to 3,801.9)	320.0 (278.8 to 353.1)	5,346.3 (4,847.4 to 5,780.8)	188.3 (165.3 to 208.7)	2,996.8 (2,733.7 to 3,244.5)
Albania	246.5 (217.0 to 274.8)	4,189.3 (3,787.1 to 4,598.1)	211.3 (179.4 to 244.5)	3,573.5 (3,158.8 to 3,984.1)	214.0 (181.6 to 242.5)	3,458.8 (3,090.8 to 3,828.6)	181.1 (153.5 to 210.8)	2,944.2 (2,591.7 to 3,308.7)
Bosnia and Herzegovina	299.4 (263.0 to 328.6)	5,240.4 (4,783.2 to 5,645.7)	167.9 (147.7 to 187.3)	2,857.3 (2,592.8 to 3,122.4)	265.7 (219.1 to 295.2)	4,425.1 (3,940.5 to 4,808.2)	147.3 (127.7 to 166.1)	2,392.6 (2,146.5 to 2,640.4)
Bulgaria	412.3 (360.2 to 454.8)	6,995.5 (6,382.5 to 7,556.9)	312.3 (277.8 to 345.0)	5,292.2 (4,846.4 to 5,755.0)	365.2 (316.9 to 407.9)	5,907.4 (5,300.7 to 6,436.3)	272.3 (238.5 to 302.9)	4,424.2 (4,026.9 to 4,825.0)
Croatia	329.0 (294.4 to 358.4)	5,489.2 (5,038.4 to 5,875.0)	192.5 (167.6 to 215.2)	3,059.5 (2,744.5 to 3,334.9)	297.6 (259.9 to 327.0)	4,750.2 (4,284.9 to 5,123.6)	170.5 (147.1 to 191.7)	2,615.0 (2,331.8 to 2,879.3)
Czech Republic	354.2 (309.2 to 393.2)	6,120.5 (5,519.7 to 6,629.9)	166.2 (140.2 to 190.3)	2,591.9 (2,295.9 to 2,862.8)	309.7 (266.6 to 348.6)	5,156.5 (4,624.5 to 5,632.9)	137.8 (113.6 to 160.3)	2,057.3 (1,814.2 to 2,291.3)
Hungary	385.6 (347.4 to 416.8)	7,002.7 (6,450.6 to 7,455.4)	222.2 (195.2 to 244.9)	3,600.5 (3,255.9 to 3,882.8)	354.5 (283.9 to 390.3)	6,184.3 (5,478.1 to 6,655.0)	206.6 (160.2 to 230.0)	3,218.8 (2,793.5 to 3,497.3)
Macedonia	364.9 (331.8 to 397.2)	5,178.9 (5,714.7 to 6,643.8)	256.8 (227.1 to 286.3)	4,288.4 (3,875.7 to 4,693.2)	327.4 (286.4 to 359.9)	5,305.8 (4,821.0 to 5,764.1)	225.2 (197.1 to 253.4)	3,617.3 (3,226.5 to 3,985.9)
Montenegro	292.0 (257.5 to 326.4)	5,099.2 (4,599.3 to 5,587.6)	242.3 (212.4 to 273.4)	4,168.6 (3,742.1 to 4,582.4)	260.6 (220.1 to 294.4)	4,309.8 (3,803.3 to 4,762.3)	211.1 (183.0 to 240.1)	3,487.3 (3,119.5 to 3,855.8)
Poland	349.7 (306.7 to 389.4)	6,266.4 (5,673.2 to 6,979.8)	173.3 (149.3 to 193.5)	2,960.5 (2,673.8 to 3,216.5)	302.3 (250.6 to 340.7)	5,138.3 (4,548.3 to 5,625.6)	152.3 (130.4 to 171.4)	2,500.8 (2,250.8 to 2,747.5)
Romania	385.1 (342.7 to 420.8)	6,653.3 (6,092.2 to 7,133.5)	281.4 (249.8 to 309.6)	4,625.0 (4,212.5 to 5,013.7)	347.7 (301.1 to 382.2)	5,780.2 (5,219.2 to 6,244.8)	249.6 (219.2 to 277.3)	3,964.4 (3,586.8 to 4,436.2)
Serbia	333.0 (295.3 to 369.3)	5,609.0 (5,122.4 to 6,095.2)	232.7 (205.6 to 257.7)	3,804.5 (3,475.9 to 4,143.6)	300.6 (264.3 to 334.4)	4,878.8 (4,387.2 to 5,318.7)	203.3 (178.0 to 227.7)	3,197.3 (2,903.5 to 3,498.6)
Slovakia	382.3 (336.2 to 424.8)	6,670.8 (6,054.3 to 7,222.8)	204.8 (173.5 to 231.0)	3,297.4 (2,940.3 to 3,610.6)	342.5 (279.7 to 386.5)	5,722.4 (5,028.2 to 6,250.9)	180.5 (150.2 to 204.8)	2,805.8 (2,480.4 to 3,072.2)
Slovenia	253.5 (227.0 to 277.9)	4,182.9 (3,839.8 to 4,522.2)	114.6 (100.6 to 128.1)	2,770.2 (1,575.0 to 1,944.9)	228.7 (192.6 to 255.1)	3,617.4 (3,223.3 to 3,952.6)	101.4 (87.9 to 114.4)	1,511.0 (1,345.6 to 1,677.5)
Central Asia	367.2 (318.4 to 412.4)	6,513.3 (5,870.8 to 7,103.6)	326.0 (283.0 to 364.1)	5,282.8 (5,283.6 to 6,346.4)	282.2 (242.1 to 318.3)	4,744.6 (4,247.5 to 5,223.6)	254.1 (219.5 to 285.6)	4,342.4 (3,911.1 to 4,772.0)
Armenia	344.1 (298.2 to 384.5)	5,753.0 (5,190.4 to 6,271.7)	257.9 (222.7 to 290.2)	4,330.8 (3,904.0 to 4,745.6)	306.5 (263.9 to 343.6)	4,922.4 (4,425.4 to 5,401.9)	229.6 (197.5 to 259.7)	3,694.3 (3,319.7 to 4,063.9)
Azerbaijan	450.1 (381.0 to 515.8)	7,453.5 (6,639.1 to 8,232.2)	287.2 (244.9 to 329.0)	5,097.5 (4,466.0 to 5,718.7)	362.2 (304.6 to 418.8)	5,645.6 (4,980.8 to 6,332.3)	230.2 (194.7 to 267.1)	3,857.4 (3,363.1 to 4,372.8)
Georgia	405.1 (352.4 to 451.2)	7,245.5 (6,527.2 to 7,937.6)	293.0 (291.4 to 366.3)	5,753.0 (5,182.3 to 6,316.6)	352.9 (306.3 to 393.8)	6,003.3 (5,426.2 to 6,599.6)	279.6 (244.7 to 311.8)	4,627.4 (4,133.5 to 5,099.0)
Kazakhstan	327.6 (283.7 to 368.9)	5,905.9 (5,285.1 to 6,475.2)	317.4 (273.8 to 360.5)	5,949.8 (5,270.6 to 6,671.0)	245.1 (209.5 to 280.0)	4,185.6 (3,737.7 to 4,623.5)	239.1 (204.2 to 274.1)	4,272.8 (3,755.2 to 4,812.2)
Kyrgyzstan	311.2 (267.5 to 355.1)	5,508.0 (4,833.7 to 6,156.3)	309.1 (264.7 to 356.0)	5,594.1 (4,931.3 to 6,156.3)	205.0 (173.7 to 236.5)	3,344.0 (2,922.8 to 3,767.1)	204.5 (171.7 to 239.0)	3,465.6 (3,004.3 to 3,951.2)
Mongolia	364.9 (318.9 to 414.1)	7,170.6 (6,389.7 to 7,984.0)	373.6 (325.5 to 424.0)	7,439.0 (5,683.2 to 8,301.4)	280.1 (244.1 to 319.6)	4,380.2 (4,657.5 to 5,873.8)	229.5 (252.4 to 333.6)	3,746.4 (4,999.2 to 6,319.0)
Tajikistan	400.5 (289.6 to 379.9)	5,925.9 (5,282.3 to 6,520.6)	293.0 (252.9 to 332.2)	4,989.6 (4,424.3 to 5,505.7)	261.2 (224.1 to 295.7)	3,869.4 (3,869.4 to 4,850.2)	207.8 (197.2 to 261.7)	4,174.0 (3,316.3 to 4,174.0)
Turkmenistan	277.8 (345.3 to 453.9)	6,842.5 (6,798.2 to 8,347.5)	356.0 (313.6 to 415.0)	6,293.7 (6,046.3 to 7,406.1)	310.2 (265.3 to 354.7)	5,592.3 (4,965.2 to 6,209.0)	285.4 (242.4 to 326.8)	5,011.4 (4,460.3 to 5,576.1)
Uzbekistan	389.0 (335.6 to 440.6)	6,842.5 (6,153.0 to 7,501.9)	359.8 (311.3 to 405.3)	6,293.7 (5,664.1 to 6,897.0)	275.6 (235.9 to 316.2)	4,594.1 (4,074.1 to 5,131.9)	274.3 (236.4 to 313.6)	4,685.4 (4,162.3 to 5,198.9)
Latin America and Caribbean	188.5 (167.3 to 209.3)	3,561.1 (3,227.3 to 3,906.2)	146.6 (130.7 to 161.5)	2,609.2 (2,367.6 to 2,842.5)	128.0 (112.8 to 143.0)	2,096.9 (2,000.0 to 2,451.8)	107.8 (95.5 to 119.8)	1,774.9 (1,605.8 to 1,944.5)
Central Latin America	153.4 (136.9 to 169.7)	2,790.0 (2,533.6 to 3,035.2)	137.5 (121.9 to 152.6)	2,349.5 (2,123.2 to 2,577.6)	107.3 (95.2 to 119.7)	1,799.8 (1,622.7 to 1,979.0)	97.4 (85.3 to 109.1)	1,523.3 (1,364.9 to 1,677.0)
Colombia	204.6 (183.5 to 224.7)	3,603.0 (3,268.9 to 3,923.2)	130.7 (114.7 to 145.6)	2,081.1 (1,869.8 to 2,274.6)	162.4 (144.1 to 180.7)	2,592.3 (2,338.6 to 2,844.8)	129.1 (105.3 to 120.9)	4,272.8 (4,133.5 to 4,463.9)
Costa Rica	156.5 (136.2 to 175.4)	2,602.8 (2,336.2 to 2,856.8)	110.3 (97.9 to 122.6)	1,852.3 (1,665.9 to 2,027.1)	127.7 (108.9 to 144.6)	2,486.8 (1,761.3 to 2,188.1)	107.6 (78.8 to 100.9)	3,561.0 (3,239.8 to 3,529.9)
El Salvador	177.8 (154.0 to 203.0)	3,386.3 (3,014.5 to 3,796.6)	155.0 (134.0 to 174.1)	2,978.8 (2,583.5 to 3,324.2)	122.1 (104.7 to 141.3)	2,096.9 (1,856.3 to 2,381.5)	107.8 (91.8 to 124.2)	1,825.0 (1,583.2 to 2,059.8)
Guatemala	129.6 (112.5 to 147.1)	2,447.2 (2,168.0 to 2,703.3)	117.7 (97.6 to 131.7)	2,151.1 (1,818.4 to 2,484.9)	78.7 (65.5 to 92.0)	1,820.0 (1,127.4 to 1,496.1)	74.8 (61.0 to 89.7)	1,217.9 (1,012.8 to 1,422.1)
Honduras	181.1 (156.8 to 204.6)	3,594.1 (3,160.9 to 4,010.0)	212.2 (169.5 to 261.7)	3,629.2 (2,913.2 to 4,457.0)	124.6 (105.7 to 143.6)	2,446.6 (1,952.5 to 2,543.5)	153.2 (121.3 to 189.3)	2,461.5 (1,979.1 to 3,017.0)
Mexico	120.0 (106.9 to 133.5)	2,199.5 (1,988.9 to 2,411.1)	131.0 (115.5 to 146.1)	2,673.8 (2,019.7 to 2,912.9)	75.6 (66.9 to 85.0)	1,280.1 (1,158.8 to 4,148.8)	85.7 (78.8 to 109.9)	1,354.9 (1,197.3 to 1,505.7)
Nicaragua	134.5 (118.6 to 150.1)	2,529.3 (2,268.1 to 2,790.4)	145.7 (127.0 to 165.6)	2,580.3 (2,253.1 to 3,212.9)	98.2 (84.6 to 111.1)	1,679.3 (1,482.2 to 1,877.8)	107.6 (92.1 to 123.9)	1,737.5 (1,504.2 to 1,977.4)
Panama	152.3 (130.3 to 174.0)	2,595.4 (2,285.4 to 2,901.6)	113.2 (95.3 to 133.0)	1,887.6 (1,623.0 to 1,916.9)	104.0 (87.8 to 122.5)	1,646.4 (1,423.5 to 1,866.8)	79.6 (65.7 to 95.0)	1,216.1 (1,030.5 to 1,441.1)
Venezuela	227.3 (201.5 to 251.6)	3,989.8 (3,614.0 to 4,329.5)	178.1 (155.1 to 204.6)	3,005.0 (2,628.5 to 3,450.5)	158.7 (146.8 to 190.8)	2,821.0 (2,514.2 to 3,103.1)	133.8 (114.2 to 155.1)	2,094.4 (1,819.5 to 2,419.7)
Andean Latin America	131.6 (113.3 to 151.3)	2,717.9 (2,075.0 to 2,667.2)	104.5 (2,521.3 to 2,912.9)	1,768.6 (1,557.6 to 1,975.5)	72.0 (60.0 to 83.9)	1,679.3 (951.0 to 1,273.7)	71.6 (61.0 to 81.9)	1,057.9 (915.5 to 1,191.8)
Bolivia	168.5 (143.2 to 194.5)	3,260.6 (2,817.0 to 3,757.5)	152.4 (123.8 to 181.2)	2,617.7 (2,161.4 to 3,112.8)	99.0 (83.4 to 117.2)	1,643.0 (1,390.6 to 1,923.8)	107.7 (86.3 to 130.1)	1,619.9 (1,334.5 to 1,934.4)
Ecuador	117.6 (101.1 to 134.7)	2,101.2 (1,827.1 to 2,381.7)	127.4 (110.0 to 145.2)	2,135.7 (1,861.5 to 2,422.0)	57.7 (47.7 to 69.0)	856.4 (733.5 to 1,012.6)	80.1 (67.2 to 93.3)	1,216.1 (1,009.3 to 1,375.2)
Peru	126.3 (106.6 to 148.0)	2,214.4 (3,019.4 to 3,683.0)	77.2 (117.7 to 153.7)	1,318.3 (1,286.8 to 2,769.8)	70.4 (105.8 to 142.6)	1,047.7 (1,913.1 to 2,387.0)	55.4 (88.8 to 119.1)	812.5 (1,525.4 to 1,956.0)
Caribbean	179.3 (179.3 to 228.8)	3,542.8 (3,542.8 to 4,396.2)	151.5 (151.5 to 191.4)	2,914.8 (2,814.8 to 3,471.9)	131.9 (114.8 to 148.8)	2,392.8 (2,124.6 to 2,672.7)	120.1 (104.5 to 134.5)	2,040.0 (1,813.4 to

Table 4. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Jamaica	181.2 (158.4 to 201.4)	3,191.0 (2,847.9 to 3,543.5)	162.3 (138.9 to 185.4)	2,877.6 (2,509.6 to 3,257.6)	113.0 (95.8 to 129.8)	1,780.7 (1,547.0 to 2,016.6)	116.3 (97.7 to 134.6)	1,942.7 (1,683.3 to 2,219.9)
Puerto Rico	158.3 (137.3 to 178.6)	2,878.5 (2,569.0 to 3,187.4)	116.3 (102.0 to 131.8)	1,954.6 (1,743.0 to 2,161.0)	106.8 (91.5 to 124.4)	1,819.9 (1,607.0 to 2,039.8)	85.6 (74.2 to 98.0)	1,344.5 (1,200.4 to 1,503.9)
Saint Lucia	234.5 (208.9 to 260.2)	4,371.4 (3,951.8 to 4,794.7)	169.6 (148.8 to 190.5)	2,958.4 (2,623.0 to 3,266.1)	156.2 (136.2 to 176.9)	2,735.9 (2,434.6 to 3,028.8)	120.5 (104.8 to 137.7)	1,983.1 (1,738.2 to 2,219.6)
Saint Vincent and the Grenadines	238.7 (209.6 to 267.0)	4,430.9 (3,957.8 to 4,896.5)	233.4 (204.5 to 261.3)	4,124.6 (3,680.2 to 4,551.5)	161.4 (139.1 to 184.0)	2,772.8 (2,431.8 to 3,119.6)	170.4 (147.1 to 193.5)	2,799.2 (2,471.8 to 3,127.1)
Suriname	236.3 (207.8 to 265.4)	4,447.3 (3,991.2 to 4,930.1)	200.4 (173.1 to 231.9)	3,706.4 (3,222.4 to 4,239.6)	159.8 (138.3 to 182.9)	2,769.7 (2,450.3 to 3,121.4)	145.9 (124.5 to 171.5)	2,503.1 (2,139.9 to 2,905.1)
Trinidad and Tobago	309.0 (279.1 to 336.9)	5,743.9 (5,266.4 to 6,201.9)	220.9 (194.6 to 250.8)	4,072.7 (3,649.6 to 4,585.5)	247.7 (222.2 to 273.0)	4,278.8 (3,890.7 to 4,654.4)	179.3 (157.4 to 203.8)	3,124.2 (2,792.7 to 3,520.6)
Virgin Islands, U.S.	222.4 (193.6 to 250.9)	3,909.7 (3,481.1 to 4,321.1)	196.2 (171.1 to 222.3)	3,414.8 (3,016.4 to 3,816.9)	151.8 (130.0 to 174.5)	2,497.3 (2,187.1 to 2,791.5)	143.9 (124.2 to 165.8)	2,349.4 (2,053.1 to 2,664.8)
Tropical Latin America	237.8 (210.9 to 263.1)	4,543.7 (4,107.5 to 5,000.2)	159.4 (142.0 to 176.7)	2,940.7 (2,647.4 to 3,221.5)	165.6 (145.8 to 186.7)	2,919.4 (2,616.4 to 3,231.3)	123.9 (110.1 to 138.1)	2,130.8 (1,915.9 to 2,344.3)
Brazil	239.5 (212.4 to 265.2)	4,578.9 (4,138.2 to 5,040.8)	158.8 (141.5 to 176.2)	2,932.0 (2,639.9 to 3,215.0)	166.7 (146.5 to 187.8)	2,939.5 (2,633.4 to 3,253.4)	123.5 (109.8 to 137.8)	2,125.5 (1,908.1 to 2,338.0)
Paraguay	175.2 (149.4 to 198.7)	3,221.4 (2,835.3 to 3,629.6)	182.9 (156.2 to 210.2)	3,304.2 (2,859.4 to 3,783.7)	177.3 (107.4 to 148.2)	2,174.9 (1,882.4 to 2,493.0)	140.1 (117.4 to 164.4)	2,353.5 (2,019.5 to 2,720.8)
Southeast Asia, East Asia, and Oceania	210.9 (187.5 to 235.8)	3,845.1 (3,439.8 to 4,273.9)	184.1 (164.2 to 204.9)	2,988.8 (2,935.6 to 3,563.4)	136.0 (119.7 to 152.7)	2,241.2 (1,978.8 to 2,502.9)	142.2 (126.2 to 159.2)	2,359.1 (2,132.9 to 2,595.1)
East Asia	205.6 (181.5 to 231.1)	3,645.0 (3,229.3 to 4,075.6)	176.3 (156.9 to 196.6)	2,912.0 (2,703.4 to 3,291.6)	125.0 (108.1 to 142.9)	1,975.3 (1,716.3 to 2,242.3)	136.5 (120.9 to 152.8)	2,198.5 (1,980.1 to 2,420.9)
China	206.0 (181.1 to 234.3)	3,653.0 (3,226.6 to 4,088.8)	178.1 (158.5 to 198.5)	3,008.6 (2,718.2 to 3,311.2)	124.7 (107.6 to 142.9)	1,967.8 (1,703.3 to 2,236.0)	138.6 (122.8 to 155.4)	2,223.9 (2,002.9 to 2,447.8)
North Korea	209.3 (161.0 to 269.4)	3,812.1 (3,040.4 to 4,270.7)	212.4 (168.1 to 259.9)	3,965.3 (3,171.4 to 4,872.0)	149.9 (111.5 to 195.1)	2,490.2 (1,881.3 to 2,321.1)	153.8 (119.9 to 194.3)	2,649.3 (2,101.7 to 3,299.5)
Taiwan	178.0 (155.4 to 200.0)	4,422.7 (2,706.0 to 3,377.5)	75.4 (62.4 to 90.6)	2,064.6 (1,096.8 to 1,526.4)	119.5 (100.7 to 138.1)	1,897.9 (1,648.2 to 2,155.0)	43.5 (33.7 to 54.7)	678.0 (547.0 to 825.3)
Southeast Asia	226.1 (199.2 to 252.4)	5,548.0 (3,935.4 to 4,907.0)	209.7 (181.5 to 232.2)	3,899.0 (3,467.0 to 4,431.7)	143.3 (148.3 to 191.2)	2,642.1 (2,712.9 to 3,417.6)	113.5 (138.1 to 180.8)	1,912.1 (2,476.6 to 3,203.0)
Cambodia	227.9 to 317.7 (227.9 to 317.7)	4,661.0 to 5,470.6 (4,661.0 to 5,470.6)	171.9 to 247.7 (171.9 to 247.7)	3,215.0 to 4,598.9 (3,215.0 to 4,598.9)	116.6 to 173.1 (116.6 to 173.1)	2,490.2 (2,184.4 to 3,121.6)	91.1 to 138.3 (91.1 to 138.3)	1,549.8 to 2,291.0 (1,549.8 to 2,291.0)
Indonesia	263.6 (230.7 to 295.7)	5,185.2 (4,566.3 to 5,770.9)	266.6 (221.4 to 312.4)	5,150.8 (4,202.6 to 6,125.1)	225.4 (188.3 to 255.0)	4,065.3 (3,564.3 to 4,543.9)	230.1 (183.3 to 271.4)	4,120.3 (3,390.4 to 4,877.9)
Laos	386.2 (307.5 to 470.1)	8,108.2 (6,393.9 to 9,999.4)	259.0 (214.1 to 310.2)	5,047.5 (4,142.0 to 6,108.7)	283.6 (226.1 to 347.2)	5,442.4 (4,278.8 to 6,750.4)	193.1 (160.3 to 232.1)	3,477.2 (2,879.8 to 4,221.2)
Malaysia	242.6 (210.4 to 269.8)	4,626.5 (4,197.1 to 5,073.4)	185.1 (158.0 to 212.1)	3,597.3 (3,087.5 to 4,121.1)	185.9 (162.4 to 209.6)	3,359.3 (3,009.2 to 3,720.1)	150.3 (128.0 to 174.2)	2,821.6 (2,430.4 to 3,249.5)
Maldives	270.6 (239.1 to 304.4)	5,126.5 (4,573.0 to 5,801.0)	132.1 (107.7 to 157.3)	2,223.8 (1,862.6 to 2,606.0)	220.0 (192.1 to 248.7)	3,857.9 (3,420.3 to 4,378.3)	107.7 (88.4 to 129.9)	1,704.8 (1,426.2 to 2,016.3)
Mauritius	366.7 (327.8 to 405.0)	7,018.1 (6,316.0 to 7,685.0)	211.1 (188.4 to 234.7)	3,827.1 (3,449.0 to 4,205.2)	260.5 (229.2 to 293.3)	4,657.8 (4,148.0 to 5,152.2)	159.1 (136.6 to 179.0)	2,656.6 (2,373.2 to 2,951.5)
Myanmar	273.9 (178.2 to 386.1)	5,352.9 (3,439.7 to 7,741.0)	213.0 (138.6 to 290.4)	4,022.3 (2,593.6 to 5,669.4)	210.0 (137.6 to 297.9)	3,784.6 (2,437.4 to 5,531.7)	164.0 (107.7 to 223.6)	2,899.4 (1,880.5 to 4,087.4)
Philippines	186.8 (164.9 to 209.6)	3,817.7 (3,438.8 to 4,216.0)	210.6 (183.0 to 239.3)	4,213.0 (3,697.9 to 4,748.6)	120.0 (103.6 to 137.2)	2,316.0 (2,052.8 to 2,601.3)	126.4 (108.0 to 146.2)	2,360.9 (2,032.9 to 2,697.2)
Sri Lanka	187.2 (163.1 to 210.8)	3,610.4 (3,236.7 to 3,977.1)	148.7 (117.9 to 180.7)	2,670.9 (2,148.5 to 3,252.1)	131.6 (111.8 to 149.7)	2,288.1 (1,959.5 to 2,557.8)	110.9 (87.4 to 134.8)	1,875.9 (1,483.5 to 2,301.1)
Seychelles	358.5 (328.7 to 387.8)	7,083.0 (6,520.9 to 7,687.8)	233.1 (207.9 to 250.9)	4,216.4 (3,729.3 to 4,731.2)	306.6 (279.0 to 332.3)	5,709.4 (5,237.3 to 6,184.8)	194.6 (171.5 to 219.6)	3,301.8 (2,913.3 to 3,735.0)
Thailand	154.3 (130.8 to 179.4)	3,001.1 (2,619.9 to 3,405.3)	115.4 (95.8 to 137.4)	2,139.6 (1,760.7 to 2,526.9)	88.2 (72.4 to 106.0)	1,506.9 (1,276.1 to 1,757.2)	72.1 (59.4 to 87.0)	1,194.2 (983.5 to 1,414.1)
Timor-Leste	273.2 (221.2 to 332.4)	5,355.7 (4,324.3 to 5,498.8)	187.7 (148.1 to 231.7)	3,470.9 (3,697.0 to 4,297.0)	216.6 (174.5 to 266.2)	3,997.7 (3,224.3 to 4,906.3)	148.8 (116.9 to 185.9)	2,611.6 (2,032.2 to 3,262.9)
Vietnam	196.3 (163.2 to 234.9)	3,565.6 (2,999.4 to 4,254.5)	181.5 (142.5 to 217.8)	3,027.6 (2,373.5 to 3,729.9)	136.1 (111.3 to 163.7)	2,252.1 (1,869.7 to 2,684.5)	144.1 (113.4 to 174.0)	2,251.0 (1,758.5 to 2,768.1)
Oceania	312.8 (252.8 to 381.8)	6,728.9 (5,310.4 to 8,444.7)	322.6 (252.5 to 414.2)	7,022.2 (5,259.7 to 9,625.2)	185.3 (151.1 to 223.3)	5,304.2 (2,813.5 to 4,307.5)	199.0 (159.0 to 251.7)	3,924.3 (3,012.4 to 5,193.2)
American Samoa	264.9 (235.2 to 295.0)	5,421.1 (4,756.9 to 6,111.8)	235.7 (201.0 to 275.0)	4,587.0 (3,867.7 to 5,374.5)	215.8 (189.7 to 241.2)	4,189.2 (3,671.6 to 4,712.2)	191.9 (162.0 to 224.1)	3,521.8 (2,963.6 to 4,163.5)
Federated States of Micronesia	313.4 (207.9 to 427.7)	6,432.3 (4,068.9 to 9,777.7)	305.5 (214.8 to 460.3)	6,240.8 (4,208.9 to 10,000.0)	171.4 (114.9 to 229.4)	3,074.3 (1,997.5 to 4,326.3)	195.4 (139.3 to 290.0)	3,585.3 (2,417.8 to 5,602.3)
Fiji	363.4 (310.2 to 425.1)	8,028.0 (6,752.0 to 9,576.0)	353.7 (301.5 to 410.5)	7,407.0 (6,231.4 to 8,725.6)	247.7 (207.8 to 292.7)	4,992.3 (4,180.9 to 5,959.8)	249.7 (210.5 to 292.8)	4,776.6 (4,015.4 to 5,670.9)
Guam	247.9 (218.4 to 278.0)	4,626.4 (4,088.7 to 5,179.7)	250.7 (209.2 to 290.5)	4,826.9 (4,045.0 to 6,567.0)	161.0 (135.7 to 185.8)	2,806.0 (2,389.4 to 3,230.2)	170.9 (140.1 to 202.1)	3,131.1 (2,602.2 to 3,723.0)
Kiribati	296.4 (252.9 to 343.6)	6,779.8 (5,744.4 to 7,895.9)	295.8 (246.7 to 346.0)	6,806.4 (5,641.2 to 8,053.0)	162.0 (134.7 to 190.5)	3,468.0 (2,884.7 to 4,108.6)	164.1 (134.2 to 193.7)	3,565.7 (3,224.3 to 4,063.9)
Marshall Islands	306.3 (266.0 to 346.3)	6,324.8 (5,458.8 to 7,231.9)	340.8 (280.9 to 411.8)	7,088.4 (5,757.5 to 8,628.6)	185.2 (156.9 to 217.1)	3,440.5 (2,916.9 to 4,008.0)	214.1 (174.4 to 259.8)	1,883.6 (1,741.2 to 2,197.9)
Northern Mariana Islands	195.0 (167.5 to 224.5)	3,618.8 (3,113.9 to 4,214.8)	156.2 (135.4 to 179.2)	2,914.5 (2,527.3 to 3,364.0)	124.4 (103.8 to 147.4)	2,144.2 (1,802.7 to 2,522.2)	105.7 (90.1 to 124.1)	2,251.0 (1,618.2 to 2,187.9)
Papua New Guinea	302.3 (209.8 to 401.5)	6,551.4 (4,455.7 to 9,111.4)	320.2 (217.4 to 415.6)	7,112.2 (4,626.3 to 10,816.1)	167.2 (116.2 to 219.4)	3,118.9 (2,103.8 to 4,310.3)	186.1 (126.7 to 259.6)	3,738.7 (2,441.5 to 5,560.4)
Samoa	255.4 (210.9 to 308.9)	5,220.6 (4,241.2 to 5,463.6)	243.0 (197.3 to 293.9)	4,628.4 (3,684.8 to 5,592.5)	157.3 (127.8 to 192.7)	2,946.0 (2,374.0 to 3,643.8)	161.6 (129.3 to 197.6)	2,929.9 (2,343.2 to 3,568.8)
Solomon Islands	378.7 (262.7 to 511.1)	8,229.0 (5,490.5 to 11,707.9)	382.9 (259.8 to 545.5)	8,288.0 (5,357.9 to 12,453.5)	208.6 (147.2 to 280.4)	4,081.2 (2,772.1 to 5,671.4)	226.8 (157.8 to 315.6)	4,461.6 (3,277.1 to 4,938.2)
Tonga	170.7 (141.4 to 202.3)	3,310.7 (2,778.3 to 3,930.9)	154.5 (126.4 to 185.5)	3,049.7 (2,491.0 to 3,701.0)	116.6 (95.6 to 140.1)	2,102.1 (1,744.9 to 2,508.1)	109.1 (88.3 to 131.5)	2,029.2 (1,651.2 to 2,457.0)
Vanuatu	437.8 (313.0 to 600.2)	9,701.3 (6,538.8 to 13,881.6)	420.3 (308.5 to 583.7)	9,068.3 (6,297.6 to 13,326.1)	348.2 (250.6 to 474.6)	3,727.3 (4,697.1 to 10,324.0)	345.0 (253.3 to 481.0)	3,565.7 (4,965.2 to 10,410.1)
North Africa and Middle East	278.2 (247.6 to 308.8)	5,485.2 (4,964.2 to 6,007.2)	214.1 (190.9 to 238.6)	4,156.8 (3,745.1 to 4,589.1)	202.0 (179.2 to 225.6)	3,711.0 (3,345.7 to 4,091.7)	150.8 (134.1 to 168.8)	2,775.2 (2,490.2 to 3,066.7)
North Africa and Middle East	278.2 (247.6 to 308.8)	5,485.2 (4,964.2 to 6,007.2)	214.1 (190.9 to 238.6)	4,156.8 (3,745.1 to 4,5				

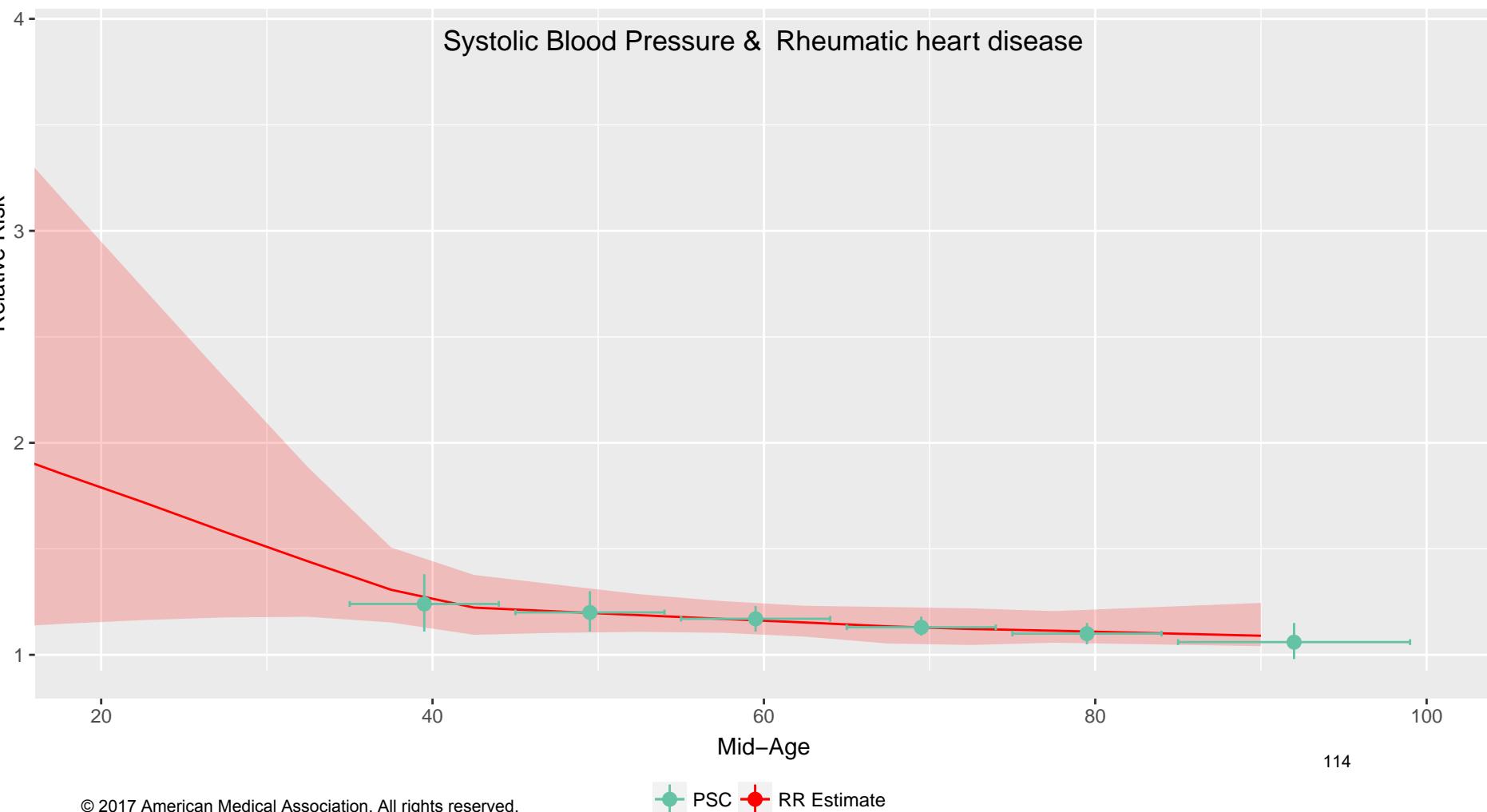
Table 4. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Palestine	261.8 (207.0 to 328.4)	5,001.2 (3,924.0 to 6,353.9)	239.1 (187.8 to 290.7)	4,532.1 (3,520.0 to 5,577.3)	162.0 (125.4 to 205.5)	2,801.0 (2,147.5 to 3,602.8)	145.4 (112.4 to 182.5)	2,500.5 (1,933.1 to 3,119.2)
Oman	202.3 (151.9 to 258.1)	4,056.6 (3,061.3 to 5,153.0)	184.5 (151.3 to 215.3)	3,546.2 (2,966.3 to 4,087.3)	148.0 (110.1 to 191.1)	2,811.9 (2,113.7 to 3,602.5)	151.9 (125.0 to 178.4)	2,856.9 (2,359.0 to 3,308.4)
Qatar	203.9 (170.5 to 236.4)	3,552.8 (3,022.2 to 4,075.5)	114.8 (89.5 to 145.7)	1,965.0 (1,559.3 to 2,489.1)	150.9 (125.1 to 177.6)	2,505.7 (2,121.5 to 2,919.3)	87.0 (67.7 to 113.0)	1,431.1 (1,129.0 to 1,842.4)
Saudi Arabia	160.4 (135.3 to 184.8)	2,960.7 (2,517.0 to 3,394.5)	136.5 (118.2 to 155.2)	2,411.9 (2,085.6 to 2,738.4)	112.9 (94.4 to 131.2)	1,935.8 (1,638.3 to 2,227.2)	97.7 (84.1 to 112.2)	1,609.2 (1,393.0 to 1,835.7)
Sudan	378.8 (311.3 to 468.1)	7,764.0 (6,306.9 to 9,625.5)	312.1 (233.0 to 405.9)	5,163.8 (4,508.6 to 8,213.8)	298.2 (244.5 to 373.7)	5,780.8 (4,666.7 to 7,297.0)	242.1 (180.1 to 314.4)	4,534.7 (3,320.9 to 6,013.4)
Syria	307.7 (258.1 to 368.2)	6,180.6 (5,214.3 to 7,388.4)	220.9 (181.2 to 261.4)	4,093.2 (3,418.9 to 4,795.5)	226.8 (189.3 to 277.8)	4,232.1 (3,562.0 to 5,105.6)	160.4 (130.1 to 191.6)	2,779.6 (2,286.3 to 3,289.2)
Tunisia	158.2 (136.7 to 181.3)	2,863.5 (2,512.2 to 3,234.1)	111.7 (86.9 to 137.9)	2,057.1 (1,647.8 to 2,521.8)	106.2 (89.5 to 124.1)	1,787.1 (1,540.5 to 2,047.4)	72.4 (55.4 to 90.0)	1,247.3 (97.7 to 1,537.2)
Turkey	231.2 (201.2 to 262.2)	4,532.2 (3,984.8 to 5,105.1)	116.4 (101.3 to 130.9)	2,107.6 (1,882.3 to 2,330.3)	176.7 (152.2 to 202.6)	3,213.3 (2,810.7 to 3,637.7)	87.8 (75.3 to 100.1)	1,481.3 (1,306.3 to 1,648.5)
United Arab Emirates	263.5 (210.2 to 325.8)	3,563.2 (4,221.1 to 6,175.0)	193.9 (156.3 to 243.2)	3,732.7 (2,932.7 to 4,816.1)	209.5 (165.9 to 257.4)	4,084.6 (3,210.5 to 5,104.8)	127.9 (102.1 to 161.6)	2,284.2 (1,778.2 to 2,953.3)
Yemen	381.6 (248.2 to 555.9)	7,750.1 (4,804.3 to 11,675.7)	325.3 (205.1 to 501.4)	6,421.6 (3,925.8 to 10,401.5)	249.5 (161.1 to 359.5)	4,612.5 (2,876.6 to 6,823.4)	207.5 (133.1 to 310.3)	3,737.3 (2,309.7 to 5,940.4)
South Asia	219.6 (194.0 to 245.5)	4,404.5 (3,925.1 to 4,886.9)	212.2 (187.9 to 236.4)	4,157.5 (3,742.0 to 4,590.3)	130.3 (113.6 to 147.4)	2,427.0 (2,160.6 to 2,726.1)	137.0 (120.2 to 154.9)	2,482.1 (2,208.2 to 2,767.9)
South Asia	219.6 (194.0 to 245.5)	4,404.5 (3,925.1 to 4,886.9)	212.2 (187.9 to 236.4)	4,157.5 (3,742.0 to 4,590.3)	130.3 (113.6 to 147.4)	2,427.0 (2,160.6 to 2,726.1)	137.0 (120.2 to 154.9)	2,482.1 (2,208.2 to 2,767.9)
Bangladesh	150.1 (128.5 to 174.3)	3,140.8 (2,692.8 to 3,607.1)	159.6 (153.9 to 220.1)	3,735.8 (3,118.3 to 4,383.4)	65.3 (53.3 to 93.8)	2,877.1 (2,180.8 to 2,792.2)	105.0 (85.9 to 125.9)	1,914.9 (1,585.5 to 2,274.6)
Bhutan	206.8 (163.9 to 254.9)	3,957.7 (4,425.2 to 4,593.4)	195.6 (213.1 to 195.7)	2,877.1 (2,219.0 to 3,551.0)	145.5 (115.6 to 181.8)	2,394.7 (2,007.2 to 3,174.5)	108.1 (84.0 to 133.9)	1,780.1 (1,377.0 to 2,188.2)
India	218.4 (193.3 to 244.0)	4,214.3 (3,942.9 to 4,928.9)	205.7 (182.9 to 228.8)	4,049.1 (3,635.7 to 4,456.9)	127.0 (110.1 to 143.5)	2,427.0 (2,120.4 to 2,688.3)	131.5 (115.6 to 147.6)	2,482.1 (2,146.7 to 2,679.0)
Nepal	197.4 (156.8 to 246.4)	3,962.8 (3,165.1 to 4,918.7)	190.0 (148.0 to 234.8)	3,598.7 (2,769.3 to 4,490.1)	133.5 (105.2 to 166.6)	2,548.8 (1,997.2 to 3,152.9)	148.8 (116.6 to 184.2)	2,672.9 (2,077.6 to 3,312.5)
Pakistan	281.4 (236.5 to 331.2)	5,323.5 (4,463.4 to 6,257.9)	301.5 (252.0 to 358.7)	5,660.9 (4,760.7 to 6,743.4)	191.7 (159.5 to 229.6)	3,388.1 (2,843.2 to 4,004.8)	216.5 (179.1 to 260.8)	3,690.2 (3,093.0 to 4,422.5)
Sub-Saharan Africa	229.2 (203.7 to 256.5)	4,476.0 (3,996.9 to 5,020.2)	204.3 (178.9 to 232.5)	3,964.6 (3,494.5 to 4,525.8)	165.1 (146.2 to 185.9)	2,978.2 (2,662.6 to 3,353.0)	155.8 (137.0 to 178.0)	2,864.3 (2,519.7 to 3,278.1)
Southern Sub-Saharan Africa	254.4 (226.5 to 283.2)	4,570.0 (4,109.6 to 5,077.6)	231.5 (204.8 to 261.2)	4,258.0 (3,767.0 to 4,823.8)	204.3 (180.9 to 227.7)	3,450.3 (3,039.9 to 3,853.7)	188.2 (165.2 to 212.6)	3,293.8 (2,892.8 to 3,735.3)
Botswana	273.1 (121.4 to 559.3)	5,194.0 (2,193.8 to 11,558.7)	269.0 (125.5 to 661.1)	5,230.6 (2,245.9 to 14,650.8)	230.3 (103.1 to 462.9)	4,146.6 (1,784.2 to 9,057.5)	223.4 (105.9 to 545.0)	4,110.8 (1,807.5 to 11,309.2)
Lesotho	228.3 (163.5 to 300.3)	4,299.0 (3,026.0 to 5,635.4)	369.9 (226.9 to 558.6)	7,440.2 (4,172.0 to 11,860.7)	173.3 (124.2 to 229.0)	3,067.9 (2,176.2 to 4,036.9)	286.1 (176.3 to 429.5)	5,430.0 (3,146.5 to 8,616.0)
Namibia	283.6 (231.9 to 337.4)	5,348.6 (4,365.6 to 6,372.1)	203.7 (133.3 to 307.3)	3,702.7 (2,356.8 to 5,729.7)	219.4 (180.4 to 263.0)	3,961.8 (3,271.1 to 4,760.8)	158.7 (104.8 to 238.5)	2,766.7 (1,773.1 to 4,258.1)
South Africa	269.8 (240.6 to 299.7)	4,836.7 (4,354.6 to 5,327.8)	232.3 (205.3 to 262.9)	4,213.3 (3,736.1 to 4,755.0)	216.5 (192.0 to 241.0)	3,654.2 (3,282.3 to 4,040.3)	189.0 (166.7 to 214.7)	3,274.8 (2,890.6 to 3,693.3)
Swaziland	281.6 (204.1 to 366.1)	5,313.7 (3,757.9 to 6,960.2)	351.6 (186.1 to 560.9)	6,946.0 (3,382.6 to 11,644.3)	219.9 (159.2 to 285.6)	3,919.1 (2,785.3 to 5,139.3)	292.2 (157.3 to 464.7)	5,445.9 (2,690.9 to 9,146.6)
Zimbabwe	156.8 (119.9 to 194.9)	2,893.2 (2,123.8 to 3,619.5)	184.6 (113.1 to 281.3)	3,597.3 (2,165.5 to 5,536.3)	128.4 (98.7 to 160.0)	2,182.1 (1,675.4 to 2,728.0)	151.3 (93.3 to 229.3)	2,749.3 (1,668.1 to 4,225.3)
Western Sub-Saharan Africa	176.4 (150.5 to 213.6)	3,614.1 (3,072.1 to 4,299.7)	174.3 (144.4 to 210.4)	3,482.7 (910.8 to 4,213.6)	120.4 (104.4 to 146.3)	2,167.6 (1,964.8 to 2,704.2)	140.2 (110.8 to 163.7)	2,658.0 (2,101.7 to 3,055.3)
Benin	205.7 (146.6 to 207.0)	3,553.9 (2,965.2 to 4,180.3)	209.2 (120.7 to 338.6)	4,325.0 (2,456.6 to 7,081.0)	197.2 (97.2 to 144.1)	3,183.8 (1,813.8 to 2,635.3)	140.2 (80.9 to 225.0)	2,438.5 (1,511.8 to 4,385.2)
Burkina Faso	218.2 (128.8 to 191.6)	3,735.5 (2,768.5 to 4,069.0)	192.4 (123.6 to 293.5)	3,798.0 (2,409.7 to 5,846.5)	108.8 (87.1 to 134.2)	2,119.9 (1,732.0 to 2,591.3)	134.8 (86.1 to 206.2)	2,449.1 (1,562.6 to 3,786.6)
Cameroon	167.8 (137.3 to 203.1)	3,381.7 (2,764.1 to 4,094.6)	195.9 (121.3 to 314.7)	3,653.8 (2,536.8 to 6,822.1)	91.6 (72.9 to 113.0)	2,294.6 (1,353.6 to 2,046.6)	134.5 (73.9 to 196.3)	2,513.1 (1,503.0 to 4,186.0)
Cape Verde	205.7 (182.4 to 227.2)	4,237.1 (3,865.4 to 4,614.0)	184.8 (155.8 to 225.9)	3,653.8 (3,101.3 to 4,394.6)	178.2 (156.5 to 198.7)	3,518.6 (3,189.6 to 3,860.1)	160.7 (133.2 to 212.6)	3,293.8 (2,570.1 to 3,678.9)
Chad	160.7 (130.3 to 195.0)	3,181.0 (2,594.2 to 3,803.1)	200.9 (109.8 to 324.4)	4,119.4 (2,324.0 to 6,809.7)	115.2 (93.1 to 140.9)	2,075.1 (1,690.5 to 2,509.7)	143.9 (79.2 to 229.5)	2,743.1 (1,500.8 to 4,411.6)
Cote d'Ivoire	254.9 (209.4 to 306.3)	5,286.6 (4,316.6 to 5,635.1)	251.9 (160.2 to 375.9)	5,257.3 (2,343.3 to 8,079.9)	214.0 (173.9 to 258.3)	4,170.4 (3,403.4 to 5,028.3)	211.4 (173.9 to 315.2)	2,537.5 (2,574.7 to 6,419.7)
The Gambia	199.3 (127.0 to 301.7)	4,007.0 (2,545.0 to 6,202.1)	192.1 (135.8 to 266.9)	3,779.3 (2,669.8 to 5,277.7)	162.3 (103.7 to 245.9)	2,990.5 (1,913.4 to 4,600.2)	121.5 (114.7 to 223.4)	3,011.2 (2,152.3 to 4,198.1)
Ghana	267.8 (183.8 to 365.8)	5,409.2 (3,766.0 to 7,471.1)	225.1 (131.2 to 362.9)	4,520.9 (2,602.6 to 7,340.6)	209.5 (142.0 to 286.2)	3,654.2 (3,186.7 to 4,040.3)	170.1 (104.8 to 238.5)	3,274.8 (1,773.1 to 4,258.1)
Guinea	189.1 (157.7 to 226.1)	3,758.6 (3,136.8 to 4,481.5)	221.0 (149.3 to 311.9)	4,540.7 (3,022.4 to 6,510.8)	132.8 (108.2 to 161.6)	2,386.5 (1,973.3 to 2,880.6)	158.6 (107.8 to 225.3)	3,079.9 (2,055.7 to 4,395.6)
Guinea-Bissau	205.6 (102.6 to 483.0)	4,216.6 (3,102.6 to 5,631.7)	193.4 (125.8 to 272.3)	3,885.7 (2,478.4 to 5,515.9)	163.6 (124.3 to 215.9)	2,936.5 (2,355.6 to 4,192.7)	155.6 (102.2 to 222.8)	2,962.2 (1,904.8 to 4,188.9)
Liberia	204.1 (156.1 to 272.1)	4,140.5 (3,178.3 to 5,631.7)	180.5 (125.8 to 273.5)	3,555.1 (2,478.4 to 5,515.9)	134.6 (124.3 to 215.9)	2,450.9 (2,355.6 to 4,192.7)	123.4 (102.2 to 222.8)	2,240.5 (1,904.8 to 4,188.9)
Mali	226.5 (168.9 to 244.6)	4,571.1 (3,472.7 to 4,936.7)	157.1 (116.3 to 274.1)	2,885.7 (2,285.9 to 5,445.5)	107.9 (107.9 to 164.2)	1,996.1 (1,996.1 to 2,986.5)	134.8 (77.9 to 193.6)	2,449.1 (1,412.6 to 3,529.7)
Mauritania	217.1 (184.1 to 271.6)	5,046.9 (3,765.9 to 5,412.9)	268.1 (93.9 to 232.6)	5,796.1 (918.8 to 4,553.6)	186.0 (139.3 to 209.1)	3,236.8 (2,637.2 to 3,858.8)	124.1 (75.7 to 185.6)	2,770.8 (1,415.9 to 3,372.8)
Niger	179.2 (147.4 to 216.3)	3,616.9 (3,011.6 to 4,389.7)	180.9 (118.0 to 264.6)	3,651.9 (2,397.3 to 5,330.9)	140.1 (114.4 to 171.8)	2,103.1 (1,103.1 to 3,131.5)	143.3 (94.8 to 209.5)	2,703.8 (1,797.3 to 3,920.2)
Nigeria	150.4 (104.6 to 216.0)	3,012.8 (2,143.2 to 4,283.8)	126.6 (89.4 to 193.3)	2,949.5 (1,824.6 to 3,739.4)	92.0 (63.7 to 131.4)	1,671.0 (1,182.2 to 2,404.0)	104.8 (74.0 to 160.4)	1,889.2 (1,381.3 to 2,824.9)
Sao Tome and Principe	228.8 (197.5 to 271.4)	4,739.2 (4,091.9 to 5,530.1)	208.8 (163.7 to 405.0)	4,631.8 (3,353.6 to 6,662.6)	180.4 (168.7 to 237.2)	3,878.3 (3,327.2 to 4,564.8)	235.3 (144.0 to 351.6)	4,675.3 (2,791.0 to 7,191.1)
Senegal	201.9 (164.6 to 245.8)	4,057.0 (3,339.3 to 4,894.5)	229.5 (133.6 to 360.1)	4,591.1 (2,654.8 to 7,448.3)	165.7 (132.2 to 208.2)	3,115.9 (2,554.1 to 3,768.5)	192.2 (111.2 to 301.6)	3,659.1 (2,111.9 to 5,919.2)
Sierra Leone	188.5 (129.8 to 254.8)	3,932.0 (2,720.1 to 5,432.6)	248.3 (166.5 to 354.0)	5,189.4 (3,432.0 to 7,508.0)	157.1 (106.6 to 212.8)	3,054.7 (2,118.1 to 4,233.8)	208.5 (138.7 to 298.6)	4,1

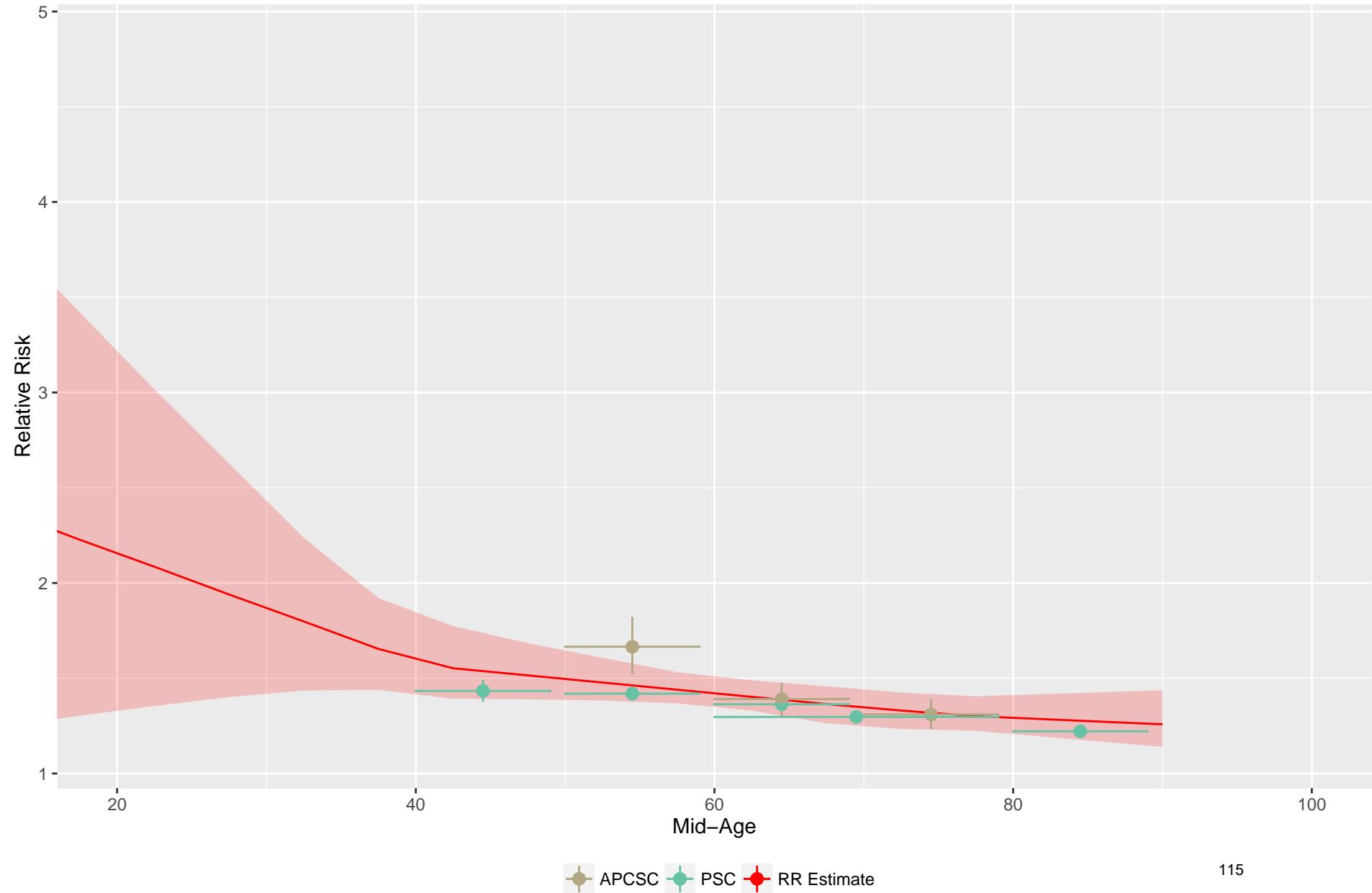
eTable 4. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined and both sexes combined in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
	1990		2015		1990		2015	
	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Rwanda	347.2 (278.8 to 432.8)	6,971.5 (5,499.3 to 8,805.9)	180.2 (117.2 to 276.7)	3,363.1 (2,181.2 to 5,235.9)	249.2 (195.6 to 313.2)	4,630.7 (3,640.1 to 5,844.1)	129.6 (83.7 to 202.5)	2,254.1 (1,463.2 to 3,505.0)
Somalia	297.8 (108.5 to 536.9)	6,242.2 (2,160.6 to 12,455.6)	268.9 (104.8 to 507.0)	5,637.0 (2,049.1 to 12,057.0)	214.1 (80.6 to 373.1)	4,106.9 (1,468.0 to 7,991.3)	205.0 (81.5 to 377.1)	4,066.2 (1,482.3 to 8,391.3)
South Sudan	254.0 (101.0 to 492.3)	5,177.9 (2,000.2 to 10,875.4)	228.7 (95.9 to 501.0)	4,702.4 (1,902.8 to 11,603.5)	186.4 (75.4 to 352.2)	3,483.3 (1,367.4 to 1517.6)	176.0 (74.1 to 380.4)	3,429.7 (1,397.2 to 8,352.1)
Tanzania	208.6 (168.5 to 252.1)	4,068.8 (3,281.3 to 4,904.9)	189.0 (114.8 to 310.0)	3,720.3 (2,222.8 to 6,202.8)	146.5 (117.0 to 179.0)	2,619.3 (2,093.2 to 3,188.5)	147.2 (89.7 to 242.2)	2,821.9 (1,689.4 to 4,687.3)
Uganda	267.8 (187.6 to 331.2)	5,242.4 (3,576.7 to 6,589.5)	221.3 (128.6 to 329.0)	4,323.8 (2,431.7 to 6,670.1)	216.6 (153.9 to 267.8)	4,045.2 (2,783.4 to 5,063.9)	167.1 (97.4 to 249.3)	3,090.2 (1,746.9 to 4,729.2)
Zambia	211.0 (164.0 to 257.2)	4,026.8 (3,125.1 to 4,918.3)	265.6 (178.8 to 368.8)	5,423.9 (3,521.2 to 7,753.4)	154.7 (118.6 to 190.6)	2,687.3 (2,066.2 to 3,319.0)	199.8 (135.2 to 280.2)	3,854.6 (2,509.3 to 5,467.7)
Central Sub-Saharan Africa	256.6 (187.8 to 336.4)	5,081.0 (3,691.5 to 6,767.8)	242.3 (167.6 to 333.1)	4,774.1 (3,209.0 to 6,752.0)	178.0 (130.5 to 234.6)	3,428.3 (2,495.1 to 4,568.0)	170.2 (117.9 to 234.6)	3,303.3 (2,222.9 to 4,726.4)
Angola	327.7 (111.9 to 584.7)	6,827.9 (2,155.5 to 13,400.8)	286.8 (122.6 to 628.3)	5,779.8 (2,322.8 to 14,100.8)	240.7 (84.4 to 423.7)	4,802.6 (1,550.2 to 9,251.2)	216.6 (92.3 to 478.4)	4,234.9 (1,696.5 to 10,438.4)
Central African Republic	344.8 (274.2 to 419.9)	7,025.9 (5,613.0 to 8,631.6)	357.3 (194.8 to 538.6)	7,605.2 (3,834.1 to 12,131.0)	251.3 (196.4 to 308.0)	4,917.3 (3,831.0 to 6,068.7)	265.7 (145.0 to 402.7)	5,491.0 (2,799.7 to 8,758.0)
Congo	368.9 (287.5 to 461.1)	7,429.2 (5,692.1 to 9,529.8)	282.4 (173.6 to 412.4)	5,447.9 (3,297.5 to 8,266.7)	266.1 (201.9 to 335.4)	5,149.8 (3,833.0 to 6,627.3)	208.2 (127.3 to 302.2)	3,899.7 (2,355.5 to 5,877.8)
Democratic Republic of the Congo	213.2 (141.8 to 301.0)	4,125.8 (2,761.5 to 5,897.7)	218.8 (137.2 to 313.2)	4,252.6 (2,669.2 to 6,175.4)	139.8 (91.9 to 200.4)	2,668.2 (1,761.3 to 3,811.1)	146.8 (91.6 to 211.9)	2,838.1 (1,781.8 to 4,103.7)
Equatorial Guinea	375.0 (133.0 to 643.0)	8,011.5 (2,502.9 to 15,402.0)	211.2 (109.3 to 488.2)	4,087.4 (2,060.6 to 10,537.3)	276.2 (98.8 to 465.4)	5,657.8 (1,793.7 to 10,777.7)	160.3 (82.5 to 365.3)	3,013.2 (1,523.7 to 7,554.7)
Gabon	292.2 (235.4 to 354.0)	5,624.3 (4,518.2 to 6,819.1)	218.9 (145.4 to 325.3)	4,042.5 (2,651.8 to 6,129.5)	228.5 (183.2 to 279.2)	4,198.1 (3,389.3 to 5,163.2)	173.1 (114.8 to 256.5)	3,056.9 (2,006.8 to 4,649.3)

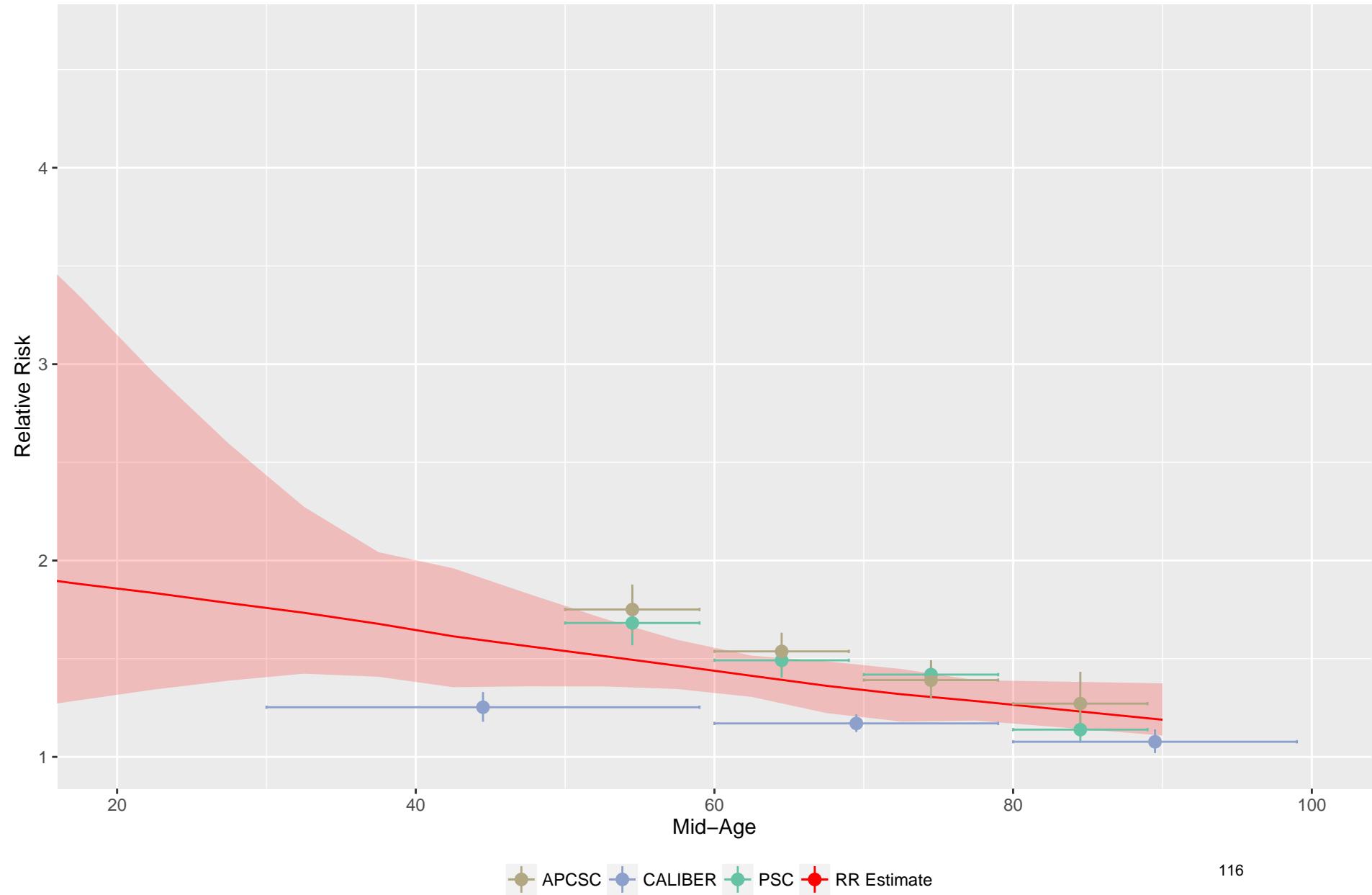
eFigure 1. Age-specific relative risks. Relative risks were reported per 10 mm Hg increase in SBP above the TMREL value (110-115 mm Hg). The blue, green, and brown dots labeled as APCSC, PSC, and CALIBER are input data used to inform the estimates. They are positioned along the x-axis in accordance to the mid-age of the associated data point in the original study. Horizontal lines represent the age-range of input data. Vertical lines are uncertainty intervals of input data. Red lines are the relative risk estimates and values used in the analysis. The shaded red areas are the uncertainty intervals of the relative risk estimates. APCSC=Asia-Pacific Cohort Studies Collaboration. PSC=Prospective Studies Collaboration. TMREL=Theoretical minimum risk exposure level.



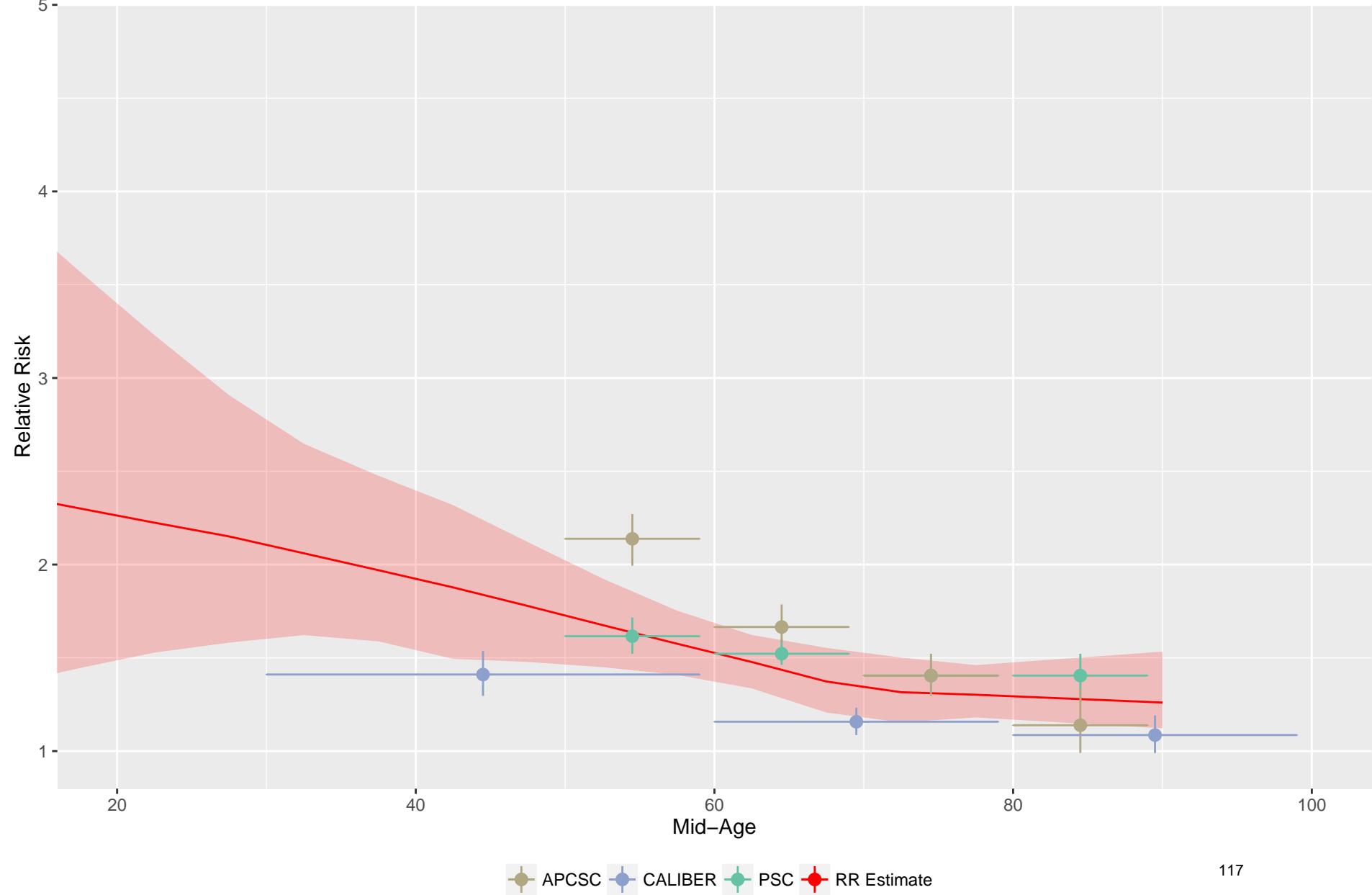
Systolic Blood Pressure & Ischemic heart disease



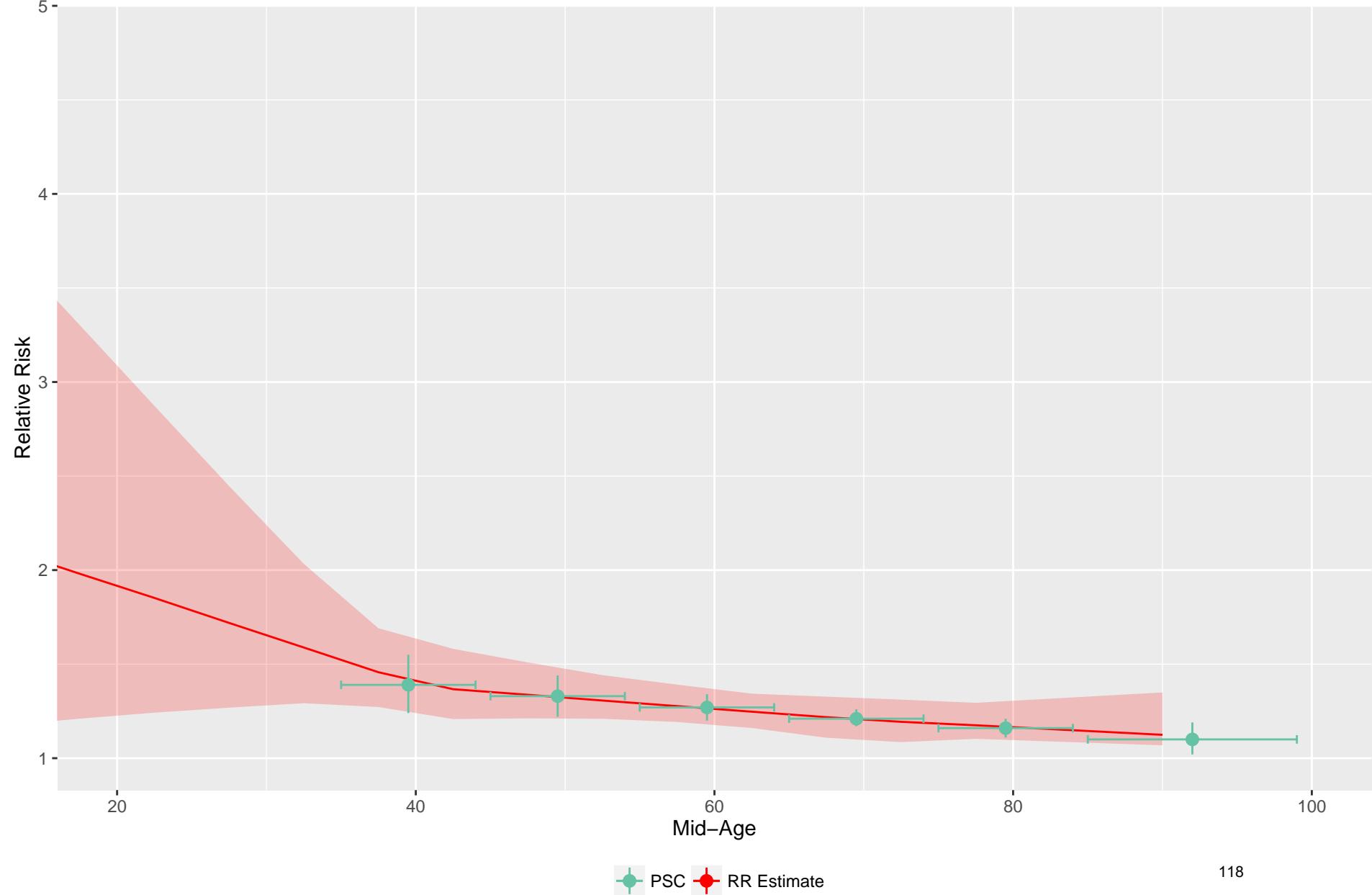
Systolic Blood Pressure & Ischemic stroke



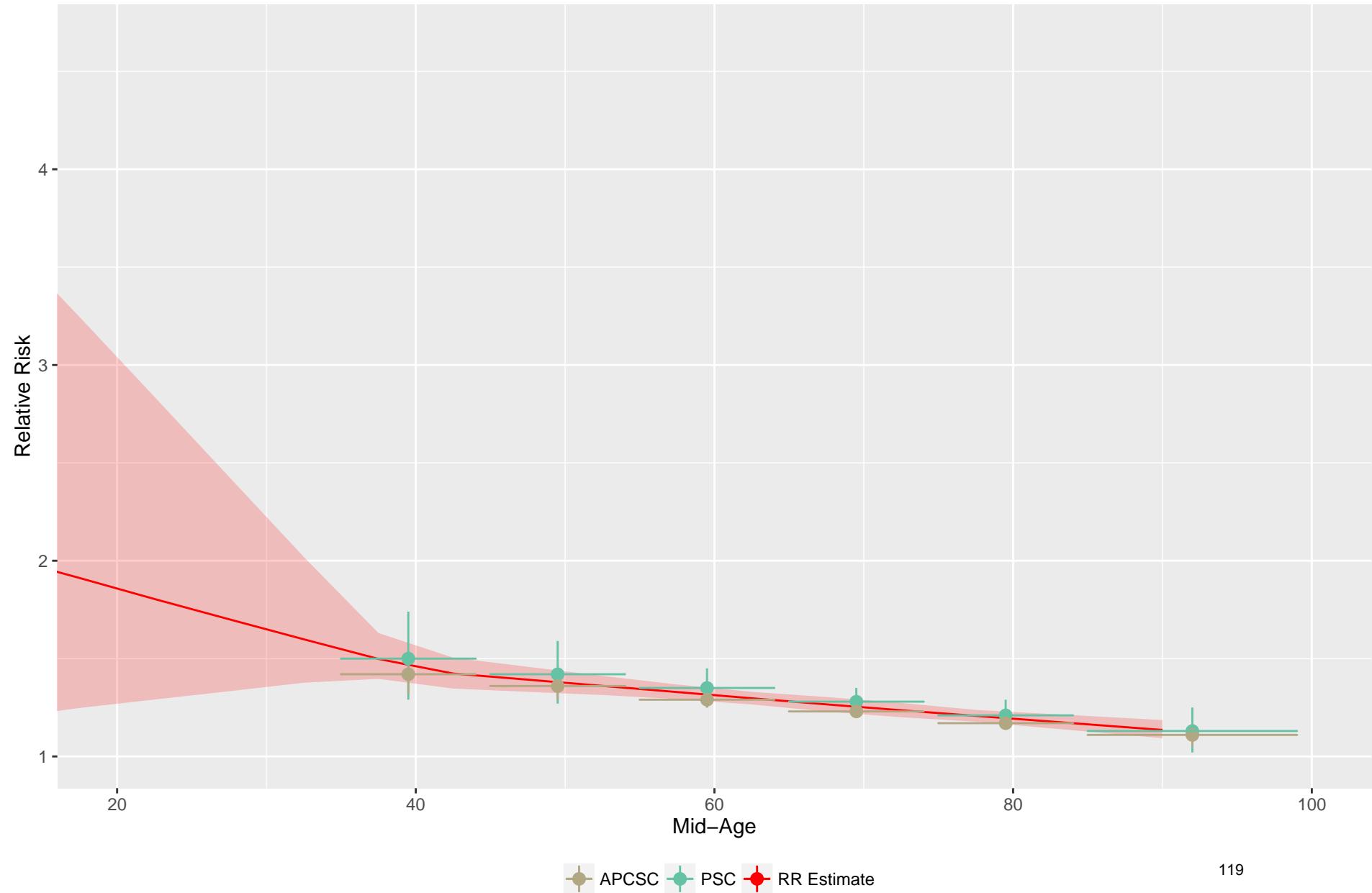
Systolic Blood Pressure & Hemorrhagic stroke



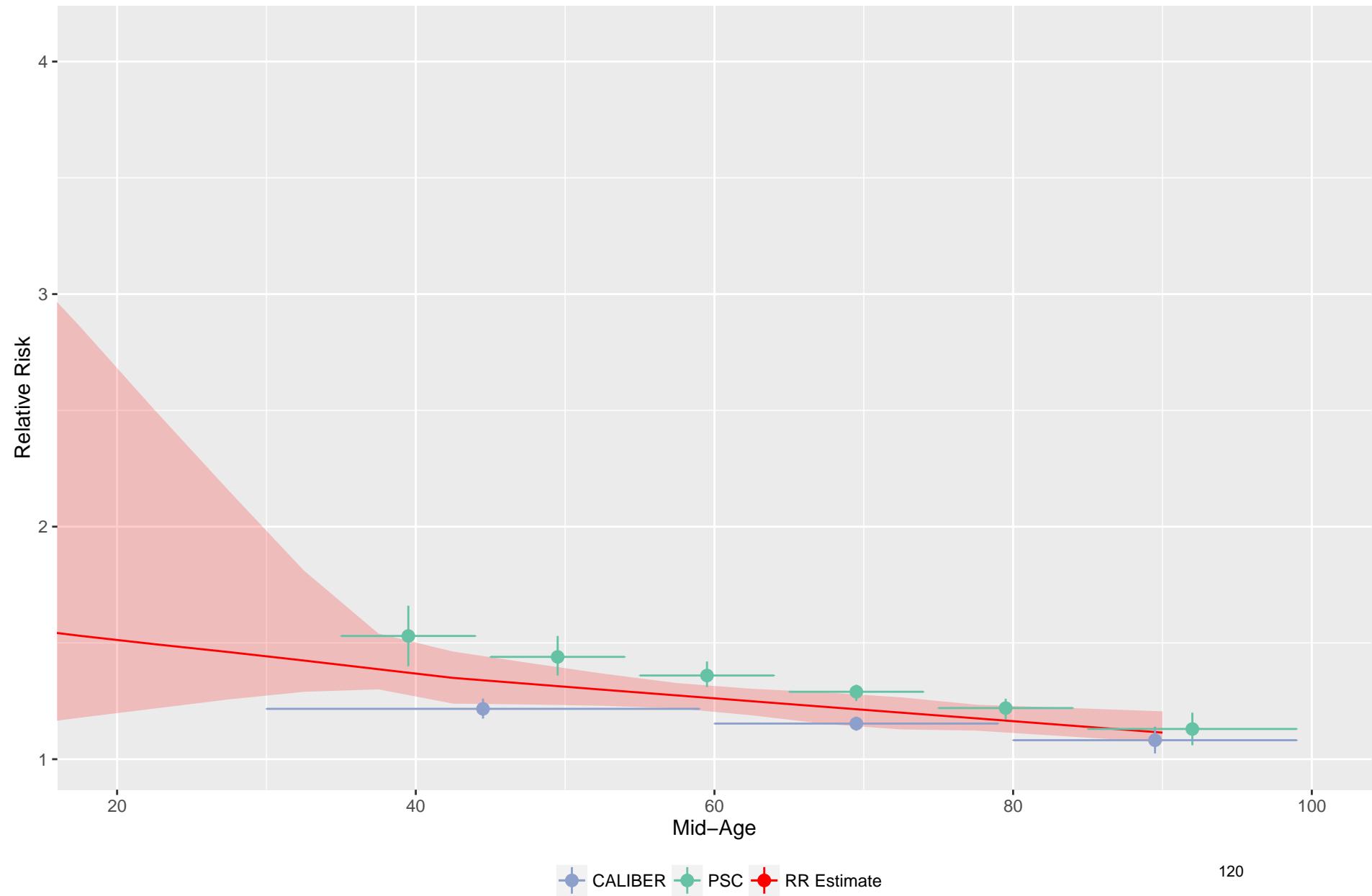
Systolic Blood Pressure & Cardiomyopathy and myocarditis



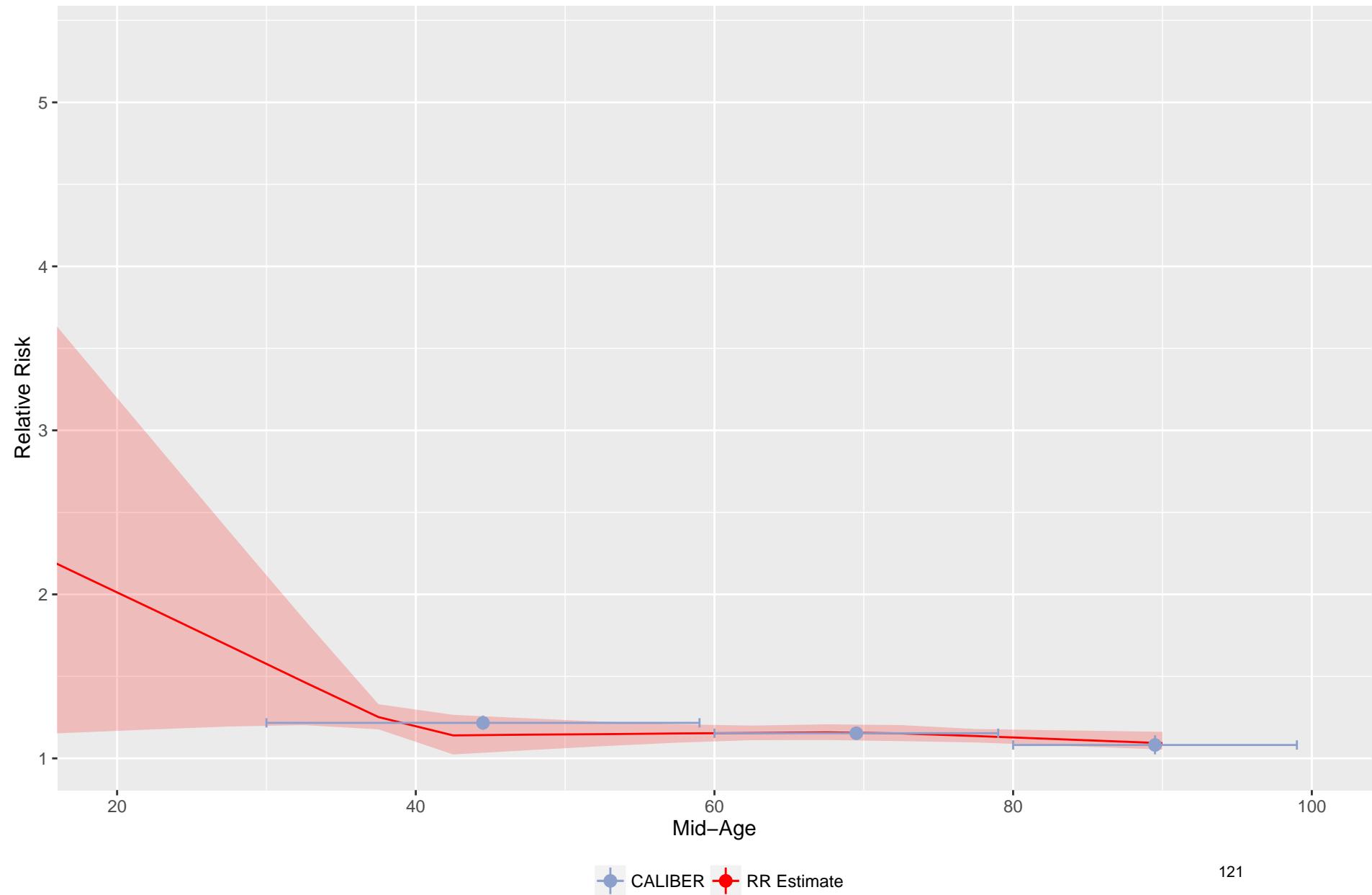
Systolic Blood Pressure & Atrial fibrillation and flutter



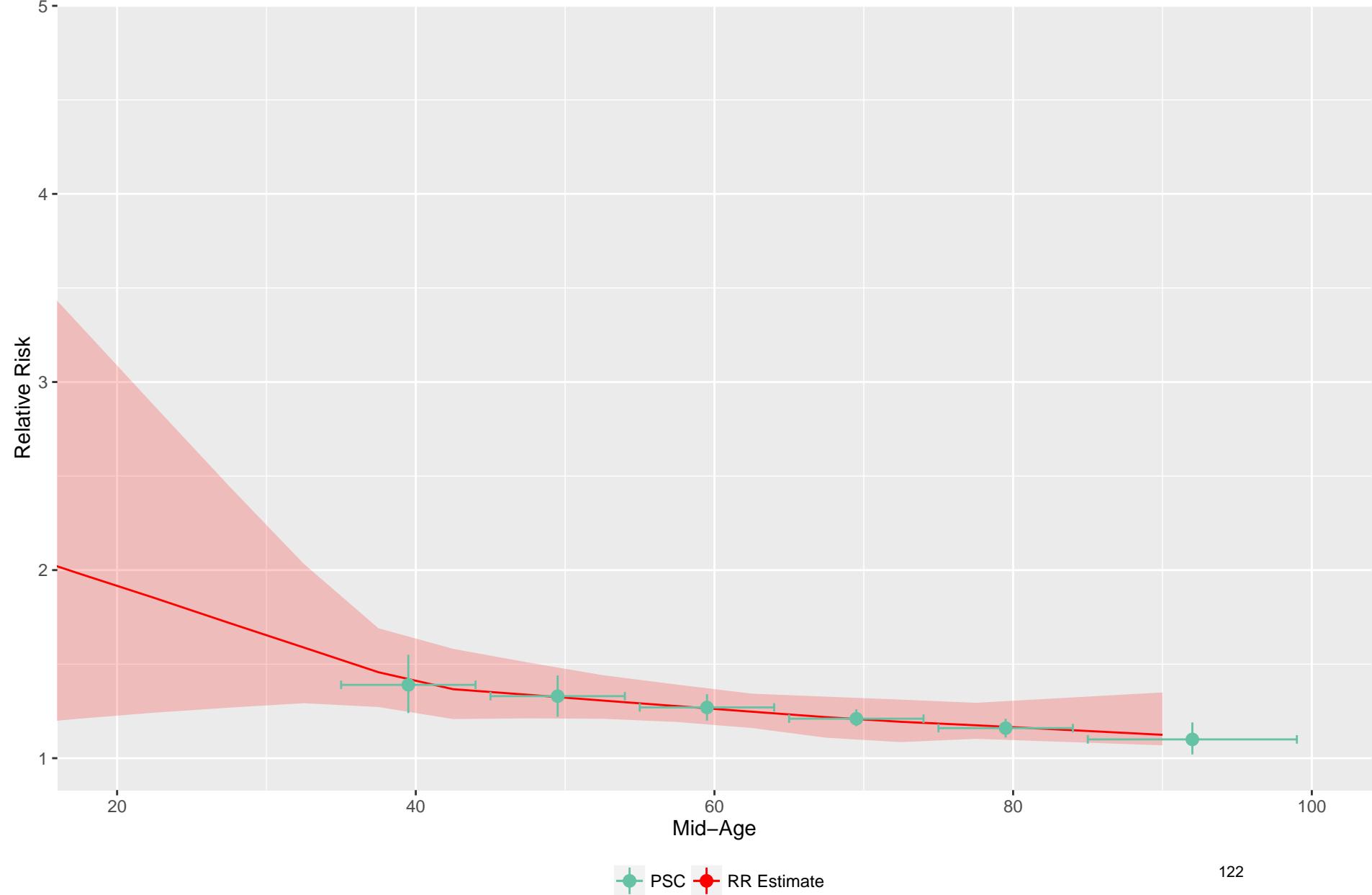
Systolic Blood Pressure & Aortic aneurysm



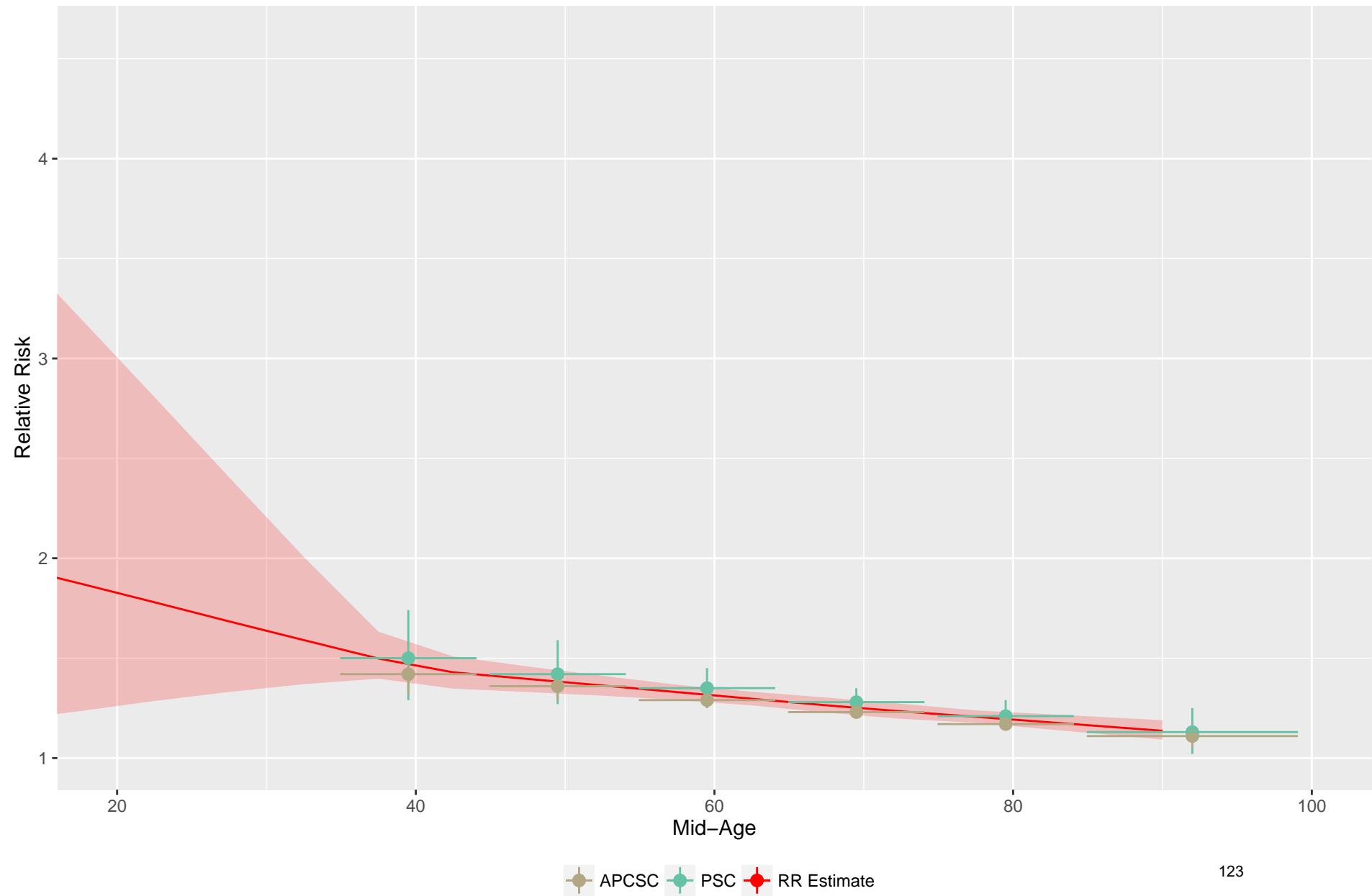
Systolic Blood Pressure & Peripheral vascular disease



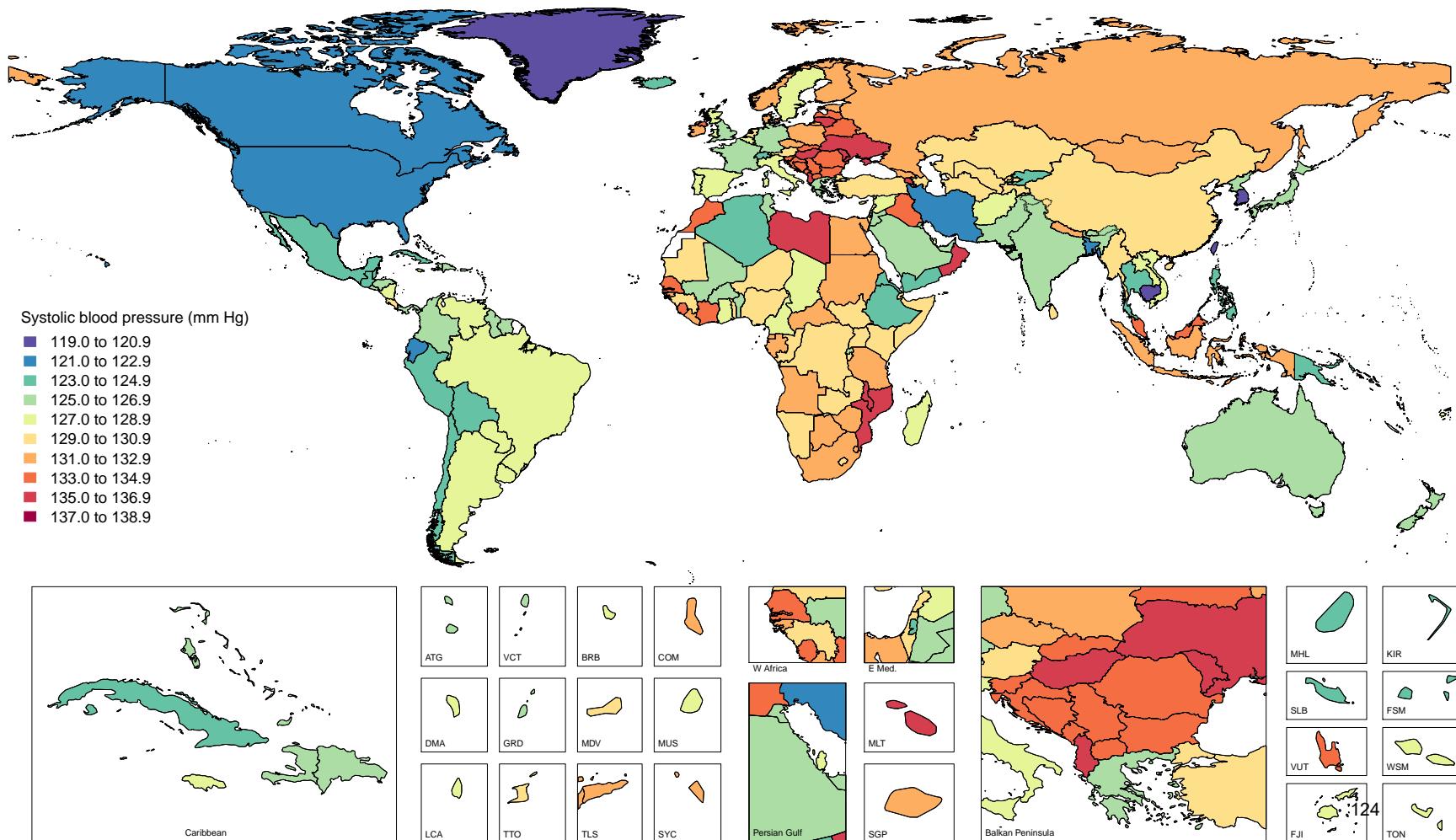
Systolic Blood Pressure & Endocarditis



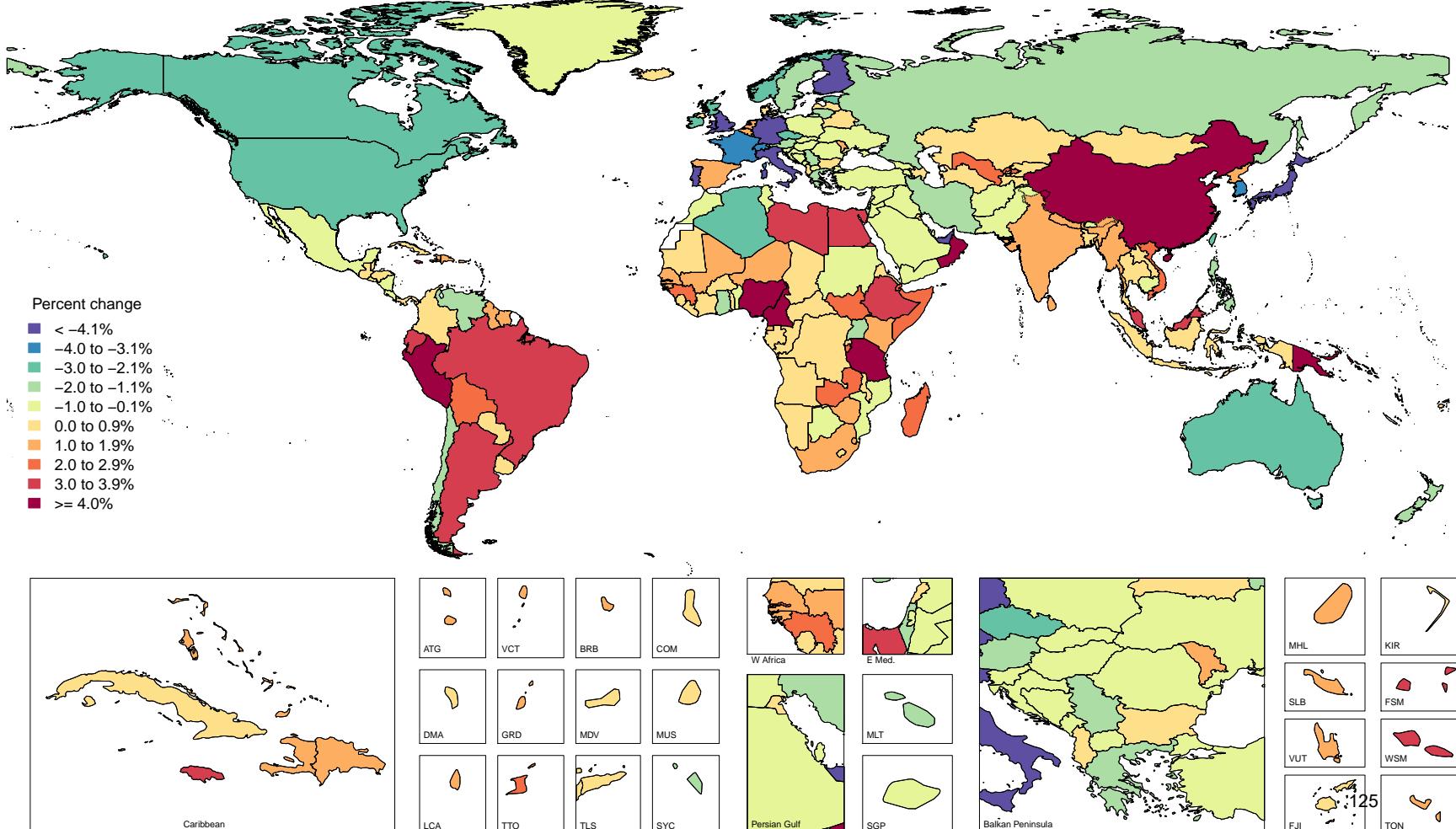
Systolic Blood Pressure & Other cardiovascular and circulatory diseases



eFigure 2. Global map of age-standardized mean systolic blood pressure (in mm Hg) for both sexes combined in 2015. ATG = Antigua and Barbuda. VCT = Saint Vincent and the Grenadines. BRB = Barbados. COM = Comoros. DMA = Dominica. GRD = Grenada. MDV = Maldives. MUS = Mauritius. LCA = Saint Lucia. TTO = Trinidad and Tobago. SYC = Seychelles. MLT = Malta. SGP = Singapore. MHL = Marshall Islands. KIR = Kiribati. SLB = Solomon Islands. FSM = Federated States of Micronesia. VUT = Vanuatu. WSM = Samoa. FJI = Fiji. TON = Tonga.



eFigure 3. Global map of the percent change of age-standardized mean systolic blood pressure (in mm Hg) from 1990 to 2015 for both sexes combined. ATG = Antigua and Barbuda. VCT = Saint Vincent and the Grenadines. BRB = Barbados. COM = Comoros. DMA = Dominica. GRD = Grenada. MDV = Maldives. MUS = Mauritius. LCA = Saint Lucia. TTO = Trinidad and Tobago. SYC = Seychelles. MLT = Malta. SGP = Singapore. MHL = Marshall Islands. KIR = Kiribati. SLB = Solomon Islands. FSM = Federated States of Micronesia. VUT = Vanuatu. WSM = Samoa. FJI = Fiji. TON = Tonga.



eTable 5. Relative Risk Input Data and Estimates by Age

95% uncertainty intervals are in parentheses

Data or estimates	Source of input												
		25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
Rheumatic heart disease													
Input data	PSC	1.24 (1.11 to 1.38)	1.24 (1.11 to 1.38)	1.24 (1.11 to 1.38)	1.24 (1.11 to 1.38)	1.20 (1.11 to 1.30)	1.20 (1.11 to 1.30)	1.17 (1.11 to 1.23)	1.17 (1.11 to 1.23)	1.13 (1.09 to 1.18)	1.13 (1.09 to 1.18)	1.10 (1.05 to 1.15)	1.06 (.98 to 1.15)
Relative risk estimates	n/a	1.631 (1.173 to 2.307)	1.474 (1.170 to 1.900)	1.317 (1.141 to 1.575)	1.229 (1.089 to 1.424)	1.211 (1.100 to 1.370)	1.193 (1.107 to 1.328)	1.175 (1.101 to 1.289)	1.157 (1.086 to 1.266)	1.139 (1.055 to 1.249)	1.127 (1.048 to 1.241)	1.120 (1.060 to 1.239)	1.104 (1.040 to 1.284)
Ischemic heart disease													
Input data	APCSC	none	none	none	none	none	1.67 (1.52 to 1.82)	1.67 (1.52 to 1.82)	1.39 (1.30 to 1.48)	1.39 (1.30 to 1.48)	1.31 (1.23 to 1.39)	1.31 (1.23 to 1.39)	none
Input data	PSC	none	none	none	1.43 (1.38 to 1.49)	1.43 (1.38 to 1.49)	1.42 (1.39 to 1.43)	1.42 (1.39 to 1.43)	1.36 (1.35 to 1.38)	1.36 (1.35 to 1.38)	1.30 (1.28 to 1.31)	1.30 (1.28 to 1.31)	1.22 (1.20 to 1.25)
Relative risk estimates	n/a	1.972 (1.436 to 2.598)	1.818 (1.458 to 2.207)	1.665 (1.458 to 1.911)	1.568 (1.398 to 1.799)	1.527 (1.393 to 1.706)	1.487 (1.385 to 1.620)	1.446 (1.368 to 1.536)	1.405 (1.332 to 1.489)	1.364 (1.255 to 1.456)	1.330 (1.222 to 1.424)	1.303 (1.225 to 1.404)	1.266 (1.133 to 1.437)
Ischemic stroke													
Input data	APCSC	none	none	none	none	none	1.75 (1.63 to	1.75 (1.63 to	1.54 (1.45 to	1.54 (1.45 to	1.39 (1.30 to	1.39 (1.30 to	

							1.88)	1.88)	1.63)	1.63)	1.49)	1.49)	1.43)
Input data	CALIBER	none	1.25 (1.18 to 1.33)	1.17 (1.13 to 1.22)	1.17 (1.13 to 1.22)	1.17 (1.13 to 1.22)	1.17 (1.13 to 1.22)	1.08 (1.02 to 1.14)					
Input data	PSC	none	none	none	none	none	1.68 (1.57 to 1.86)	1.68 (1.57 to 1.86)	1.49 (1.40 to 1.57)	1.49 (1.40 to 1.57)	1.42 (1.35 to 1.49)	1.42 (1.35 to 1.49)	1.14 (1.07 to 1.22)
Relative risk estimates	n/a	1.854 (1.394 to 2.590)	1.774 (1.426 to 2.253)	1.694 (1.404 to 2.036)	1.628 (1.353 to 1.950)	1.574 (1.359 to 1.825)	1.521 (1.360 to 1.700)	1.468 (1.344 to 1.598)	1.414 (1.301 to 1.524)	1.361 (1.214 to 1.490)	1.318 (1.168 to 1.452)	1.284 (1.177 to 1.390)	1.201 (1.108 to 1.370)
Hemorrhagic stroke													
Input data	APCSC	none	none	none	none	none	2.14 (1.99 to 2.27)	2.14 (1.99 to 2.27)	1.67 (1.58 to 1.79)	1.67 (1.58 to 1.79)	1.40 (1.30 to 1.52)	1.40 (1.30 to 1.52)	1.14 (0.99 to 1.34)
Input data	CALIBER	none	1.41 (1.30 to 1.51)	1.41 (1.30 to 1.51)	1.41 (1.30 to 1.51)	1.41 (1.30 to 1.51)	1.41 (1.30 to 1.51)	1.41 (1.30 to 1.51)	1.14 (1.09 to 1.23)	1.14 (1.09 to 1.23)	1.14 (1.09 to 1.23)	1.14 (1.09 to 1.23)	1.09 (0.99 to 1.19)
Input data	PSC	none	none	none	none	none	1.62 (1.52 to 1.72)	1.62 (1.52 to 1.72)	1.52 (1.46 to 1.60)	1.52 (1.46 to 1.60)	1.40 (1.34 to 1.46)	1.40 (1.34 to 1.46)	1.40 (1.30 to 1.52)
Relative risk estimates	n/a	2.134 (1.554 to 2.919)	2.050 (1.593 to 2.661)	1.966 (1.588 to 2.465)	1.874 (1.491 to 2.303)	1.775 (1.481 to 2.117)	1.676 (1.446 to 1.934)	1.577 (1.399 to 1.755)	1.478 (1.330 to 1.619)	1.379 (1.207 to 1.540)	1.323 (1.162 to 1.495)	1.311 (1.192 to 1.450)	1.279 (1.126 to 1.519)

Cardiomyopathy and myocarditis														
Input data	PSC	none	none	1.39 (1.24 to 1.55)	1.39 (1.24 to 1.55)	1.33 (1.22 to 1.44)	1.33 (1.22 to 1.44)	1.27 (1.20 to 1.34)	1.27 (1.20 to 1.34)	1.21 (1.17 to 1.26)	1.21 (1.17 to 1.26)	1.16 (1.11 to 1.21)	1.10 (1.02 to 1.19)	
Relative risk estimates	n/a	1.755 (1.265 to 2.424)	1.605 (1.290 to 2.012)	1.455 (1.277 to 1.642)	1.365 (1.229 to 1.511)	1.335 (1.222 to 1.449)	1.306 (1.218 to 1.394)	1.276 (1.211 to 1.342)	1.247 (1.182 to 1.304)	1.217 (1.131 to 1.285)	1.193 (1.116 to 1.264)	1.175 (1.119 to 1.238)	1.128 (1.071 to 1.237)	
Atrial fibrillation and flutter														
Input data	APCSC	none	none	1.42 (1.32 to 1.53)	1.42 (1.32 to 1.53)	1.36 (1.29 to 1.43)	1.36 (1.29 to 1.43)	1.29 (1.25 to 1.34)	1.29 (1.25 to 1.34)	1.23 (1.20 to 1.26)	1.23 (1.20 to 1.26)	1.17 (1.14 to 1.21)	1.11 (1.05 to 1.17)	
Input data	PSC			1.50 (1.29 to 1.74)	1.50 (1.29 to 1.74)	1.42 (1.27 to 1.59)	1.42 (1.27 to 1.59)	1.35 (1.25 to 1.45)	1.35 (1.25 to 1.45)	1.28 (1.21 to 1.35)	1.28 (1.21 to 1.35)	1.21 (1.14 to 1.29)	1.13 (1.02 to 1.25)	
Relative risk estimates	n/a	1.760 (1.336 to 2.430)	1.631 (1.377 to 2.027)	1.503 (1.396 to 1.644)	1.423 (1.340 to 1.505)	1.392 (1.328 to 1.458)	1.361 (1.313 to 1.411)	1.330 (1.293 to 1.369)	1.299 (1.266 to 1.333)	1.268 (1.233 to 1.309)	1.237 (1.201 to 1.277)	1.208 (1.176 to 1.238)	1.134 (1.092 to 1.185)	
Aortic aneurysm														
Input data	PSC	none	none	1.53 (1.40 to 1.66)	1.53 (1.40 to 1.66)	1.44 (1.36 to 1.53)	1.44 (1.36 to 1.53)	1.36 (1.31 to 1.53)	1.36 (1.31 to 1.53)	1.29 (1.25 to 1.42)	1.29 (1.25 to 1.42)	1.22 (1.25 to 1.32)	1.13 (1.06 to 1.20)	
Relative risk estimates	n/a	1.544 (1.258 to 2.169)	1.469 (1.290 to 1.818)	1.394 (1.299 to 1.538)	1.345 (1.226 to 1.452)	1.321 (1.232 to 1.405)	1.296 (1.229 to 1.362)	1.272 (1.218 to 1.327)	1.248 (1.191 to 1.299)	1.223 (1.160 to 1.286)	1.200 (1.137 to 1.262)	1.177 (1.126 to 1.230)	1.119 (1.071 to 1.185)	

Peripheral vascular disease														
Input data	CALIBER	none	1.22 (1.17 to 1.26)	1.22 (1.17 to 1.26)	1.22 (1.17 to 1.26)	1.22 (1.17 to 1.26)	1.22 (1.17 to 1.26)	1.22 (1.17 to 1.26)	1.15 (1.12 to 1.18)	1.15 (1.12 to 1.18)	1.15 (1.12 to 1.18)	1.15 (1.12 to 1.18)	1.08 (1.02 to 1.14)	
Relative risk estimates	n/a	1.728 (1.203 to 2.430)	1.491 (1.206 to 1.871)	1.254 (1.182 to 1.330)	1.138 (1.019 to 1.263)	1.142 (1.047 to 1.243)	1.146 (1.071 to 1.224)	1.150 (1.094 to 1.209)	1.154 (1.110 to 1.199)	1.159 (1.113 to 1.207)	1.152 (1.104 to 1.201)	1.136 (1.097 to 1.176)	1.095 (1.054 to 1.155)	
Endocarditis														
Input data	PSC	none	none	1.39 (1.24 to 1.55)	1.39 (1.24 to 1.55)	1.33 (1.22 to 1.44)	1.33 (1.22 to 1.44)	1.27 (1.20 to 1.34)	1.27 (1.20 to 1.34)	1.21 (1.17 to 1.26)	1.21 (1.17 to 1.26)	1.16 (1.11 to 1.21)	1.10 (1.02 to 1.19)	
Relative risk estimates	n/a	1.755 (1.265 to 2.424)	1.605 (1.290 to 2.012)	1.455 (1.277 to 1.642)	1.365 (1.229 to 1.511)	1.335 (1.222 to 1.449)	1.306 (1.218 to 1.394)	1.276 (1.211 to 1.342)	1.247 (1.182 to 1.304)	1.217 (1.131 to 1.285)	1.193 (1.116 to 1.264)	1.175 (1.119 to 1.238)	1.128 (1.071 to 1.237)	
Other cardiovascular and circulatory diseases														
Input data	APCSC	none	none	1.42 (1.32 to 1.53)	1.42 (1.32 to 1.53)	1.36 (1.29 to 1.43)	1.36 (1.29 to 1.43)	1.29 (1.25 to 1.34)	1.29 (1.25 to 1.34)	1.23 (1.20 to 1.26)	1.23 (1.20 to 1.26)	1.17 (1.14 to 1.21)	1.11 (1.05 to 1.17)	
Input data	PSC	none	none	1.50 (1.29 to 1.74)	1.50 (1.29 to 1.74)	1.42 (1.27 to 1.59)	1.42 (1.27 to 1.59)	1.35 (1.25 to 1.45)	1.35 (1.25 to 1.45)	1.28 (1.21 to 1.35)	1.28 (1.21 to 1.35)	1.21 (1.14 to 1.29)	1.13 (1.02 to 1.25)	
Relative risk estimates	n/a	1.744 (1.339 to 2.397)	1.624 (1.382 to 2.006)	1.504 (1.405 to 1.626)	1.427 (1.354 to 1.499)	1.395 (1.336 to 1.452)	1.363 (1.317 to 1.452)	1.330 (1.296 to 1.406)	1.298 (1.266 to 1.365)	1.265 (1.231 to 1.332)	1.235 (1.201 to 1.303)	1.207 (1.176 to 1.271)	1.137 (1.095 to 1.235)	1.188 (1.095 to 1.188)

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Global	Male	247.6 (220.5 to 274.1)	4,766.6 (4,299.5 to 5,232.7)	196.5 (175.9 to 216.8)	3,898.3 (3,538.4 to 4,266.3)	174.6 (154.1 to 194.9)	3,110.6 (2,802.3 to 3,435.9)	141.2 (125.9 to 157.0)	2,637.2 (2,388.8 to 2,895.6)
Global	Female	204.8 (181.9 to 225.2)	3,487.3 (3,169.6 to 3,798.9)	145.3 (128.6 to 161.6)	2,453.5 (2,226.8 to 2,688.5)	158.2 (139.1 to 176.0)	2,437.6 (2,212.7 to 2,660.8)	110.7 (97.6 to 124.0)	1,715.4 (1,548.3 to 1,883.3)
High SDI	Male	250.9 (222.7 to 278.1)	4,707.7 (4,277.7 to 5,115.7)	135.3 (119.5 to 150.2)	2,610.6 (2,349.2 to 2,849.3)	201.4 (176.7 to 223.7)	3,594.2 (3,248.3 to 3,924.8)	98.5 (86.5 to 110.3)	1,802.4 (1,617.3 to 1,975.8)
High SDI	Female	173.7 (151.4 to 193.2)	2,656.3 (2,392.9 to 2,874.8)	95.5 (82.3 to 107.8)	1,395.1 (1,243.5 to 1,537.6)	149.1 (130.1 to 167.0)	3,378.0 (1,935.8 to 2,335.9)	73.7 (63.3 to 84.0)	981.9 (870.2 to 1,086.8)
High-middle SDI	Male	274.1 (242.9 to 304.7)	5,182.9 (4,648.9 to 5,732.3)	217.4 (193.3 to 240.4)	4,061.8 (3,686.9 to 4,413.1)	191.8 (169.4 to 214.4)	3,727.2 (3,042.7 to 3,727.2)	165.8 (147.2 to 184.5)	2,948.7 (2,669.1 to 3,231.6)
High-middle SDI	Female	218.0 (193.1 to 244.1)	3,596.3 (3,251.3 to 3,936.5)	149.1 (130.3 to 167.2)	2,323.5 (2,089.5 to 2,544.0)	165.1 (145.0 to 185.5)	2,477.1 (2,236.3 to 2,727.3)	117.0 (101.9 to 132.0)	1,692.6 (1,516.8 to 1,862.7)
Middle SDI	Male	236.7 (210.0 to 264.1)	4,655.9 (4,138.2 to 5,178.0)	231.1 (204.6 to 256.1)	4,471.8 (4,023.4 to 4,919.9)	147.3 (129.2 to 167.3)	2,686.1 (2,371.2 to 3,014.9)	168.1 (148.1 to 187.2)	3,077.5 (2,739.4 to 3,426.9)
Middle SDI	Female	215.1 (190.9 to 237.6)	3,841.6 (3,447.6 to 4,257.3)	170.2 (150.9 to 189.9)	2,863.7 (2,601.6 to 3,146.7)	151.6 (133.9 to 169.0)	2,459.8 (2,200.7 to 2,734.5)	132.5 (116.9 to 149.0)	2,068.6 (1,868.9 to 2,287.0)
Low-middle SDI	Male	194.6 (169.6 to 220.8)	4,091.3 (3,651.5 to 4,636.1)	222.9 (197.1 to 249.5)	4,664.8 (4,138.2 to 5,213.9)	107.5 (92.7 to 122.6)	2,129.1 (1,843.1 to 2,415.7)	139.5 (123.6 to 157.3)	2,747.0 (2,427.0 to 3,106.5)
Low-middle SDI	Female	220.3 (196.3 to 247.7)	4,154.2 (3,737.6 to 4,622.3)	196.1 (172.3 to 220.8)	3,550.5 (3,154.2 to 3,984.5)	150.8 (132.7 to 171.2)	2,617.3 (2,338.5 to 2,939.4)	139.0 (121.5 to 157.7)	2,326.7 (2,071.2 to 2,609.0)
Low SDI	Male	230.2 (199.0 to 264.0)	4,973.3 (4,311.7 to 5,712.5)	223.6 (184.5 to 269.8)	4,761.3 (3,897.8 to 5,764.4)	157.6 (135.5 to 183.0)	3,179.1 (2,745.4 to 3,695.9)	160.3 (131.2 to 193.5)	3,253.5 (2,657.4 to 3,935.0)
Low SDI	Female	286.8 (251.0 to 325.5)	5,599.3 (4,912.5 to 6,375.2)	251.9 (213.4 to 301.7)	4,846.8 (4,117.1 to 5,766.5)	211.2 (184.1 to 240.0)	3,842.2 (3,367.5 to 4,390.1)	189.9 (160.9 to 228.3)	3,447.2 (2,928.6 to 4,105.0)
High-income	Male	215.5 (190.5 to 239.1)	3,872.4 (3,512.8 to 4,209.9)	100.4 (87.8 to 112.6)	1,795.0 (1,603.3 to 1,976.8)	173.3 (152.2 to 192.7)	2,938.4 (2,657.3 to 3,222.0)	68.5 (59.5 to 77.5)	1,132.7 (1,009.6 to 1,262.0)
High-income	Female	141.2 (123.6 to 157.3)	2,083.0 (1,876.3 to 2,261.3)	70.2 (60.6 to 79.8)	962.9 (853.2 to 1,068.2)	119.9 (104.6 to 134.6)	1,636.3 (1,470.8 to 1,786.2)	50.5 (43.0 to 58.1)	602.2 (52.9 to 676.4)
High-income North America	Male	203.0 (174.5 to 229.9)	3,759.5 (3,336.7 to 4,153.3)	101.9 (87.5 to 116.6)	1,945.8 (1,716.6 to 2,171.3)	145.3 (123.8 to 167.2)	2,460.5 (2,170.1 to 2,754.8)	55.9 (47.2 to 65.1)	965.7 (836.2 to 1,102.3)
High-income North America	Female	133.4 (113.7 to 150.6)	2,045.9 (1,825.6 to 2,250.0)	78.1 (66.2 to 89.0)	1,175.8 (1,034.8 to 1,310.3)	108.9 (92.0 to 124.3)	1,481.5 (1,310.7 to 1,645.1)	53.5 (44.6 to 62.2)	664.0 (575.7 to 751.6)
Canada	Male	183.0 (157.1 to 208.6)	3,259.5 (2,897.7 to 3,609.9)	76.0 (62.9 to 88.6)	1,333.6 (1,154.8 to 1,509.0)	139.1 (118.6 to 159.8)	2,331.0 (2,055.3 to 2,617.2)	43.4 (35.6 to 51.6)	720.6 (617.5 to 829.5)
Canada	Female	208.2 (91.4 to 124.0)	3,154.9 (1,368.8 to 1,724.2)	62.8 (42.8 to 62.1)	1,620.3 (624.2 to 834.2)	72.5 (72.5 to 100.4)	981.0 (981.0 to 1,266.8)	26.9 (26.9 to 40.9)	346.4 to 473.2 (346.4 to 473.2)
Greenland	Male	202.5 (169.1 to 240.4)	4,100.9 (3,433.9 to 4,803.8)	125.5 (104.8 to 147.9)	2,352.7 (1,999.6 to 2,750.3)	91.7 (75.2 to 111.5)	1,704.1 (1,407.7 to 2,030.5)	56.5 (46.1 to 67.9)	989.1 (821.3 to 1,179.8)
Greenland	Female	174.2 (143.0 to 205.1)	2,917.7 (2,456.9 to 3,388.3)	92.9 (77.0 to 110.1)	1,477.8 (1,249.3 to 1,737.8)	100.7 (81.1 to 121.1)	1,474.3 (1,211.5 to 1,739.8)	49.9 (40.7 to 60.3)	689.5 (573.7 to 821.5)
United States	Male	205.2 (176.5 to 232.6)	3,816.3 (3,388.0 to 4,218.7)	105.1 (90.4 to 120.0)	2,020.3 (1,781.0 to 2,253.3)	146.0 (124.4 to 167.9)	2,475.2 (2,182.7 to 2,772.1)	57.5 (48.6 to 67.0)	720.6 (864.1 to 1,137.9)
United States	Female	135.9 (116.0 to 153.1)	2,096.8 (1,871.1 to 2,304.6)	81.1 (68.9 to 92.4)	1,228.5 (1,083.5 to 1,367.8)	110.0 (93.8 to 126.7)	1,517.1 (1,342.8 to 1,683.4)	55.8 (46.6 to 64.9)	694.3 (602.4 to 785.3)
Australasia	Male	218.9 (190.7 to 246.5)	3,808.8 (3,417.2 to 4,169.9)	85.7 (73.0 to 98.4)	1,415.5 (1,244.7 to 1,578.3)	175.7 (151.1 to 198.3)	2,932.4 (2,616.0 to 3,238.8)	55.7 (46.7 to 65.2)	888.8 (775.2 to 1,001.8)
Australasia	Female	145.8 (125.9 to 165.7)	2,026.3 (1,808.4 to 2,229.7)	66.4 (55.5 to 78.4)	819.6 (713.4 to 921.3)	124.0 (105.8 to 141.4)	1,609.1 (1,435.8 to 1,784.3)	46.7 (38.3 to 56.1)	528.8 (457.5 to 606.1)
Australia	Male	214.9 (186.8 to 242.6)	3,706.2 (3,310.5 to 4,061.1)	82.8 (70.1 to 95.5)	1,355.8 (1,185.8 to 1,524.8)	171.8 (147.5 to 194.8)	2,848.3 (2,539.2 to 3,157.1)	52.5 (43.6 to 61.6)	828.5 (711.4 to 939.4)
Australia	Female	145.0 (124.7 to 164.9)	1,983.3 (1,770.8 to 2,187.0)	64.5 (53.7 to 76.3)	794.7 (689.8 to 896.3)	123.2 (104.8 to 141.3)	1,575.2 (1,404.0 to 1,753.2)	44.7 (36.4 to 53.7)	508.6 (436.6 to 585.2)
New Zealand	Male	239.9 (210.1 to 268.3)	4,345.8 (3,904.7 to 4,754.9)	100.9 (86.1 to 116.9)	1,731.4 (1,536.5 to 1,929.4)	196.0 (171.4 to 221.5)	3,369.3 (3,023.5 to 3,728.2)	72.8 (61.5 to 85.2)	1,209.1 (1,065.4 to 1,360.0)
New Zealand	Female	150.0 (129.8 to 169.6)	2,247.5 (2,016.7 to 2,475.6)	76.5 (63.5 to 89.3)	951.0 (826.5 to 1,072.0)	128.0 (110.5 to 145.3)	1,781.5 (1,585.7 to 1,971.4)	58.0 (46.6 to 68.9)	638.8 (541.5 to 734.2)
High-income Asia Pacific	Male	171.3 (153.6 to 187.8)	3,115.1 (2,847.3 to 3,377.9)	76.5 (68.2 to 85.5)	1,415.4 (1,268.6 to 1,557.0)	140.3 (125.2 to 154.9)	2,407.9 (2,196.6 to 2,624.0)	55.1 (48.7 to 61.7)	953.3 (855.2 to 1,052.0)
High-income Asia Pacific	Female	128.0 (114.0 to 141.4)	1,907.0 (1,731.7 to 2,072.5)	49.7 (43.3 to 56.8)	673.6 (594.0 to 758.4)	108.7 (96.4 to 120.8)	1,504.4 (1,362.3 to 1,640.1)	34.6 (29.8 to 39.6)	416.8 (367.1 to 470.3)
Brunei	Male	209.9 (185.1 to 235.2)	4,291.8 (3,869.8 to 4,771.2)	151.5 (131.9 to 171.5)	2,841.1 (2,499.4 to 3,168.0)	172.4 (151.0 to 195.2)	3,321.6 (2,981.9 to 3,713.9)	105.3 (89.4 to 122.2)	1,835.8 (1,601.5 to 2,075.3)
Brunei	Female	178.4 (153.6 to 202.1)	3,147.8 (2,736.8 to 3,580.2)	107.8 (93.9 to 121.5)	1,715.1 (1,515.4 to 1,908.9)	149.2 (127.7 to 171.0)	2,403.3 (2,068.6 to 2,734.5)	76.1 (64.0 to 89.0)	1,068.0 (924.4 to 1,215.6)
Japan	Male	157.3 (140.6 to 172.4)	2,792.2 (2,560.4 to 3,012.7)	78.3 (69.8 to 87.2)	1,481.3 (1,337.7 to 1,626.5)	135.8 (121.5 to 149.5)	2,315.6 (2,122.2 to 2,505.5)	59.5 (52.8 to 66.4)	1,058.6 (950.0 to 1,164.2)
Japan	Female	113.0 (100.4 to 125.1)	1,615.1 (1,476.1 to 1,751.1)	48.5 (42.1 to 55.1)	662.2 (581.7 to 743.5)	99.3 (88.1 to 110.2)	1,339.2 (1,215.0 to 1,454.5)	35.0 (30.2 to 39.9)	425.3 (373.7 to 480.1)
Singapore	Male	213.5 (193.0 to 234.5)	4,446.4 (4,042.6 to 4,817.3)	108.7 (96.7 to 121.3)	2,056.3 (1,855.0 to 2,245.1)	170.2 (151.9 to 190.0)	3,440.8 (3,100.0 to 3,761.0)	88.8 (78.2 to 100.0)	1,614.0 (1,445.7 to 1,784.6)
Singapore	Female	170.7 (152.3 to 188.3)	2,997.6 (2,742.9 to 3,252.9)	81.1 (69.9 to 91.3)	1,186.7 (1,061.5 to 1,315.8)	143.8 (125.9 to 160.8)	2,415.3 (2,180.1 to 2,645.0)	67.6 (57.6 to 76.9)	928.7 (820.1 to 1,033.8)
South Korea	Male	263.1 (230.2 to 298.9)	4,878.9 (4,310.6 to 5,453.4)	66.7 (56.5 to 78.8)	1,181.6 (1,020.4 to 1,357.5)	164.9 (139.4 to 194.5)	2,888.1 (2,505.2 to 3,311.5)	30.6 (24.9 to 36.8)	525.9 (440.6 to 623.2)
South Korea	Female	222.1 (194.9 to 251.3)	3,475.7 (3,095.4 to 3,846.5)	54.5 (45.5 to 63.9)	716.4 (615.2 to 820.1)	169.2 (144.9 to 194.9)	2,403.3 (2,161.8 to 2,756.6)	35.0 (24.3 to 37.7)	359.1 (290.0 to 428.8)
Western Europe	Male	232.9 (207.4 to 254.7)	4,125.9 (3,759.8 to 4,455.0)	103.9 (90.9 to 116.2)	1,748.6 (1,572.2 to 1,923.1)	197.7 (175.0 to 218.9)	3,377.2 (3,068.0 to 3,662.1)	76.9 (67.0 to 87.1)	1,235.8 (1,104.6 to 1,371.5)
Western Europe	Female	147.3 (129.7 to 163.6)	2,120.4 (1,924.4 to 2,299.4)	70.9 (60.9 to 80.9)	886.2 (783.7 to 982.6)	128.3 (112.2 to 144.2)	1,756.9 (1,581.8 to 1,915.7)	53.1 (44.8 to 61.2)	600.6 (527.8 to 674.8)
Andorra	Male	140.8 (117.2 to 167.0)	2,408.5 (1,974.7 to 2,782.1)	89.1 (74.0 to 106.1)	1,454.3 (1,245.5 to 1,664.6)	121.8 (99.6 to 145.3)	2,005.5 (1,651.7 to 2,332.6)	69.6 (56.6 to 83.9)	1,086.0 (920.9 to 1,263.4)
Andorra	Female	65.8 (53.4 to 79.9)	913.3 (772.4 to 1,078.5)	39.0 (30.9 to 48.6)	493.8 (409.7 to 589.1)	57.4 (44.4 to 71.0)	750.6 (619.9 to 890.0)	30.8 (23.1 to 40.0)	353.2 (287.9 to 432.2)
Austria	Male	259.0 (225.2 to 292.3)	4,481.2 (4,025.5 to 4,899.2)	125.4 (106.4 to 143.0)	1,989.8 (1,763.2 to 2,202.4)	216.9 (186.0 to 248.0)	3,615.3 (3,199.4 to 4,011.6)	101.8 (84.7 to 119.3)	1,553.4 (1,359.8 to 1,750.2)
Austria	Female	171.6 (147.0 to 194.8)	2,402.1 (2,134.7 to 2,651.6)	96.5 (80.5 to 111.7)	1,131.5 (987.8 to 1,274.1)	149.7 (122.1 to 173.8)	2,006.4 (1,708.8 to 2,523.9)	80.6 (64.0 to 97.3)	883.7 (737.1 to 1,025.5)
Belgium	Male	18							

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Cyprus	Male	294.9 (254.9 to 336.2)	4,704.8 (4,204.5 to 5,171.6)	124.8 (108.8 to 141.7)	2,256.3 (1,999.2 to 2,498.9)	241.9 (205.9 to 282.6)	3,697.0 (3,242.7 to 4,158.0)	97.8 (83.3 to 112.6)	1,696.9 (1,482.0 to 1,919.8)
Cyprus	Female	169.7 (144.0 to 194.4)	2,372.5 (2,091.0 to 2,640.0)	56.5 (48.0 to 65.4)	845.2 (738.3 to 957.8)	141.3 (115.9 to 166.3)	1,854.1 (1,594.5 to 2,059.4)	43.7 (35.3 to 52.4)	597.6 (507.1 to 693.4)
Denmark	Male	260.8 (227.4 to 293.1)	4,568.5 (4,110.6 to 4,998.4)	112.2 (96.3 to 128.3)	1,839.5 (1,627.4 to 2,045.6)	218.2 (189.1 to 248.0)	3,678.6 (3,297.1 to 4,062.8)	93.1 (78.3 to 108.7)	1,474.9 (1,295.0 to 1,664.9)
Denmark	Female	161.0 (138.7 to 181.5)	2,347.8 (2,104.3 to 2,572.0)	76.6 (64.3 to 89.6)	1,007.3 (886.1 to 1,123.1)	142.2 (122.0 to 161.2)	1,953.9 (1,744.8 to 2,159.8)	65.4 (53.7 to 77.4)	807.2 (696.1 to 918.3)
Finland	Male	333.3 (295.5 to 365.8)	5,836.9 (5,836.9 to 6,838.3)	146.2 (126.0 to 166.4)	2,532.4 (2,248.5 to 2,796.5)	306.5 (265.5 to 338.6)	5,750.1 (5,186.4 to 6,218.8)	125.8 (106.6 to 144.3)	2,093.0 (1,842.3 to 2,340.7)
Finland	Female	185.9 (160.3 to 208.4)	2,769.7 (2,496.9 to 2,997.9)	89.7 (72.4 to 105.0)	1,135.7 (986.5 to 1,274.4)	172.0 (141.5 to 195.5)	2,497.9 (2,078.4 to 2,736.7)	79.0 (62.2 to 94.3)	935.3 (803.6 to 1,072.7)
France	Male	138.9 to 174.1 (138.9 to 174.1)	2,565.2 to 3,090.7 (2,565.2 to 3,090.7)	73.0 to 97.4 (73.0 to 97.4)	1,351.0 to 1,688.1 (1,351.0 to 1,688.1)	111.1 to 142.5 (111.1 to 142.5)	1,984.1 to 2,418.4 (1,984.1 to 2,418.4)	51.9 to 73.3 (51.9 to 73.3)	1,083.1 (952.6 to 1,221.3)
France	Female	89.3 (77.2 to 101.5)	1,265.3 (1,127.8 to 1,400.4)	45.1 (36.0 to 54.7)	606.9 (517.8 to 700.4)	71.2 (60.8 to 81.8)	938.1 (829.0 to 1,045.9)	28.5 (20.7 to 36.7)	345.5 (276.7 to 416.5)
Germany	Male	294.4 (258.3 to 329.5)	5,189.6 (4,709.2 to 5,620.3)	124.3 (107.9 to 140.4)	1,992.7 (1,775.0 to 2,205.1)	256.9 (222.0 to 290.0)	4,417.0 (3,951.7 to 4,839.0)	95.3 (80.7 to 110.3)	1,405.3 (1,231.8 to 1,584.1)
Germany	Female	185.3 (160.1 to 207.0)	2,664.1 (2,412.3 to 2,901.6)	96.1 (81.3 to 110.4)	1,108.1 (972.8 to 1,242.1)	166.3 (137.9 to 190.6)	2,293.5 (1,971.1 to 2,530.2)	79.4 (64.8 to 93.9)	808.4 (693.6 to 924.9)
Greece	Male	212.2 (184.3 to 238.4)	3,673.6 (3,274.4 to 4,059.6)	136.6 (116.9 to 155.8)	2,433.3 (2,127.5 to 2,731.8)	153.9 (130.7 to 178.1)	2,506.4 (2,177.7 to 2,837.4)	97.0 (80.1 to 114.9)	1,617.5 (1,387.7 to 1,859.6)
Greece	Female	179.1 (155.3 to 203.0)	2,433.0 (2,162.4 to 2,700.5)	106.6 (87.1 to 124.4)	1,283.6 (1,098.3 to 1,451.4)	145.2 (122.3 to 169.2)	1,832.1 (1,581.5 to 2,066.3)	83.0 (64.5 to 100.7)	895.1 (739.5 to 1,046.4)
Iceland	Male	165.7 (135.5 to 194.8)	2,868.7 (2,439.7 to 3,252.4)	91.8 (75.1 to 109.2)	1,487.3 (1,278.8 to 1,698.2)	103.7 (81.4 to 127.6)	1,699.3 (1,397.9 to 2,004.8)	59.7 (47.5 to 73.5)	924.7 (772.2 to 1,085.2)
Iceland	Female	113.9 (92.5 to 133.6)	1,543.3 (1,329.7 to 1,749.5)	52.4 (41.3 to 63.4)	655.3 (553.3 to 760.5)	87.4 (67.8 to 106.8)	1,078.9 (896.6 to 1,266.7)	41.0 (30.9 to 51.1)	470.1 (380.4 to 564.9)
Ireland	Male	245.9 (210.5 to 283.2)	4,596.1 (4,071.9 to 5,169.1)	113.1 (95.3 to 130.0)	1,903.6 (1,680.7 to 2,123.4)	218.6 (180.5 to 253.7)	3,951.2 (3,423.5 to 4,477.7)	85.8 (70.3 to 102.6)	1,411.1 (1,222.0 to 1,598.1)
Ireland	Female	160.8 (135.1 to 183.9)	2,439.8 (2,133.1 to 2,735.1)	71.4 (57.1 to 87.1)	891.5 (756.1 to 1,034.4)	145.0 (115.1 to 169.2)	2,073.7 (1,723.9 to 2,366.8)	60.1 (46.4 to 75.2)	688.1 (559.7 to 814.0)
Israel	Male	218.8 (192.0 to 244.6)	3,924.2 (3,515.3 to 4,285.2)	100.2 (86.4 to 114.4)	1,621.9 (1,439.9 to 1,808.5)	178.3 (156.8 to 200.8)	3,026.0 (2,677.7 to 3,342.6)	78.7 (66.1 to 91.9)	1,197.8 (1,045.3 to 1,364.4)
Israel	Female	170.2 (149.6 to 189.5)	2,579.1 (2,318.3 to 2,831.8)	68.4 (57.8 to 79.1)	860.9 (752.4 to 974.4)	146.0 (125.1 to 164.3)	1,693.3 (1,823.2 to 2,304.9)	56.2 (45.7 to 66.6)	647.9 (550.9 to 750.2)
Italy	Male	225.8 (203.8 to 246.3)	3,755.1 (3,447.5 to 4,041.8)	104.1 (89.6 to 118.1)	1,627.7 (1,449.6 to 1,812.5)	204.8 (160.2 to 226.9)	3,252.8 (2,834.6 to 3,537.0)	73.8 (61.8 to 86.3)	1,144.5 (976.7 to 1,257.7)
Italy	Female	143.8 (126.9 to 159.4)	1,968.8 (1,796.5 to 2,131.9)	74.3 (63.4 to 86.0)	878.1 (774.7 to 984.5)	129.6 (112.1 to 145.2)	1,693.3 (1,513.9 to 1,842.6)	53.4 (43.7 to 65.1)	588.7 (507.3 to 651.1)
Luxembourg	Male	268.9 (240.1 to 296.4)	4,759.6 (4,327.9 to 5,166.2)	101.7 (89.6 to 113.5)	1,766.3 (1,584.4 to 1,947.1)	238.5 (208.8 to 267.3)	4,067.5 (3,647.8 to 4,445.8)	89.9 (76.8 to 102.6)	1,508.4 (1,317.6 to 1,681.1)
Luxembourg	Female	162.1 (140.0 to 184.9)	2,343.2 (2,077.3 to 2,587.9)	67.7 (56.5 to 78.0)	927.5 (816.5 to 1,045.1)	137.8 (114.5 to 160.4)	1,878.2 (1,621.1 to 2,116.5)	56.6 (45.5 to 67.4)	718.0 (608.6 to 825.3)
Malta	Male	262.1 (228.5 to 291.7)	4,593.5 (4,107.8 to 5,024.2)	133.6 (115.0 to 151.8)	2,199.3 (1,957.5 to 2,425.4)	238.3 (197.1 to 263.0)	3,984.4 (3,481.9 to 4,411.7)	118.4 (98.7 to 137.0)	1,871.7 (1,618.3 to 2,084.0)
Malta	Female	172.2 (150.6 to 191.1)	2,656.8 (2,396.4 to 2,894.7)	93.5 (79.8 to 106.3)	1,209.5 (1,069.2 to 1,338.9)	160.9 (133.0 to 181.8)	2,401.3 (2,009.7 to 2,652.2)	86.7 (69.4 to 100.9)	1,072.9 (908.1 to 1,204.5)
Netherlands	Male	208.4 (179.5 to 234.7)	3,683.0 (3,271.2 to 4,062.5)	105.4 (92.4 to 119.0)	1,758.6 (1,577.5 to 1,953.0)	165.1 (140.9 to 188.0)	2,742.1 (2,397.9 to 3,070.3)	91.6 (77.7 to 104.9)	1,441.0 (1,272.1 to 1,614.6)
Netherlands	Female	112.3 (96.7 to 127.1)	1,657.4 (1,462.4 to 1,838.7)	66.2 (56.2 to 76.1)	906.9 (791.5 to 1,022.1)	90.4 (76.4 to 103.9)	1,228.7 (1,069.3 to 1,386.8)	56.7 (46.0 to 67.3)	705.9 (599.2 to 800.4)
Norway	Male	266.6 (235.5 to 295.3)	4,760.0 (4,301.1 to 5,150.9)	103.1 (87.1 to 118.1)	1,691.4 (1,502.5 to 1,873.3)	235.1 (207.2 to 262.0)	4,104.8 (3,700.0 to 4,467.1)	84.5 (70.9 to 98.3)	1,358.6 (1,188.2 to 1,529.9)
Norway	Female	138.8 (121.2 to 156.2)	2,185.4 (1,781.9 to 2,185.4)	63.0 (50.9 to 75.6)	785.4 (668.7 to 902.6)	122.7 (105.8 to 139.5)	1,699.0 (1,508.2 to 1,872.5)	46.8 (35.7 to 59.0)	557.0 (461.6 to 661.5)
Portugal	Male	241.8 (212.3 to 272.8)	4,406.4 (3,966.9 to 4,830.0)	104.0 (89.9 to 118.2)	1,809.4 (1,613.8 to 2,011.2)	183.0 (156.2 to 212.8)	3,358.2 (2,977.8 to 3,728.9)	73.8 (62.7 to 86.2)	1,268.4 (1,119.5 to 1,431.2)
Portugal	Female	140.4 to 193.8 (148.2 to 193.5)	2,316.5 to 2,897.8 (2,661.3 to 3,303.1)	64.9 (57.8 to 95.4)	879.2 (763.2 to 996.5)	129.1 (104.8 to 154.4)	2,027.6 (1,771.6 to 2,291.7)	42.3 (34.1 to 51.3)	534.5 (455.0 to 622.5)
Spain	Male	170.4 (148.2 to 203.5)	2,990.7 (2,661.3 to 3,303.1)	84.2 (72.8 to 95.4)	1,500.9 (1,336.1 to 1,662.8)	127.7 (107.5 to 149.2)	2,051.3 (1,797.6 to 2,316.6)	62.1 (52.6 to 72.6)	1,164.6 (929.8 to 1,199.2)
Spain	Female	122.3 (105.1 to 139.6)	1,665.1 (1,477.0 to 1,843.5)	52.9 (44.2 to 62.5)	685.9 (595.9 to 781.4)	101.6 (85.6 to 117.6)	1,261.6 (1,102.5 to 1,418.3)	34.3 (26.7 to 43.1)	405.4 (336.7 to 482.2)
Sweden	Male	232.1 (199.7 to 264.4)	3,932.6 (3,502.5 to 4,350.2)	118.0 (97.7 to 135.8)	1,785.0 (1,564.5 to 1,999.3)	189.5 (158.0 to 221.9)	3,106.6 (2,713.1 to 3,496.4)	91.5 (73.5 to 107.3)	1,312.4 (1,129.6 to 1,492.6)
Sweden	Female	131.3 (109.4 to 152.9)	1,787.5 (1,573.6 to 2,000.5)	81.7 (65.9 to 97.4)	930.9 (795.2 to 1,061.6)	108.4 (87.6 to 129.2)	1,400.6 (1,203.4 to 1,601.9)	64.6 (49.9 to 80.6)	669.7 (554.7 to 784.4)
Switzerland	Male	169.1 (144.3 to 195.1)	2,897.7 (2,553.4 to 3,246.2)	85.1 (70.5 to 100.2)	1,289.2 (1,118.3 to 1,467.0)	118.0 (97.2 to 141.8)	1,960.8 (1,679.9 to 2,583.8)	59.7 (47.8 to 73.2)	838.7 (710.6 to 989.7)
Switzerland	Female	94.0 (75.3 to 113.0)	1,283.3 (1,086.4 to 1,466.2)	55.1 (43.4 to 67.2)	595.5 (496.7 to 693.8)	62.5 (47.0 to 80.3)	809.2 (658.7 to 964.8)	35.9 (25.3 to 47.7)	336.7 (264.9 to 418.1)
United Kingdom	Male	278.1 (248.1 to 304.6)	5,154.8 (4,704.3 to 5,546.9)	94.4 (81.6 to 107.5)	1,728.9 (1,543.7 to 1,912.1)	248.5 (220.3 to 275.2)	4,468.6 (4,055.8 to 4,839.9)	64.1 (55.1 to 73.8)	1,142.9 (1,015.4 to 1,279.2)
United Kingdom	Female	168.2 (149.6 to 184.5)	2,598.0 (2,371.1 to 2,788.8)	62.9 (54.0 to 71.9)	890.1 (780.2 to 995.8)	154.5 (135.0 to 171.3)	2,285.1 (2,066.4 to 2,468.6)	44.5 (37.9 to 51.9)	571.1 (498.3 to 642.3)
England	Male	275.0 (245.4 to 300.4)	5,079.4 (4,643.3 to 5,464.1)	90.5 (77.7 to 103.1)	1,653.6 (1,471.7 to 1,830.3)	248.5 (219.7 to 274.5)	4,459.5 (4,043.9 to 4,828.4)	60.2 (51.2 to 69.6)	1,072.0 (948.7 to 1,204.5)
England	Female	166.1 (148.6 to 182.1)	2,542.5 (2,327.2 to 2,726.7)	59.8 (51.1 to 68.5)	838.7 (735.4 to 942.8)	154.2 (134.1 to 170.7)	2,268.3 (2,049.4 to 2,451.4)	41.0 (34.5 to 48.2)	519.0 (452.3 to 589.9)
Northern Ireland	Male	311.3 (276.3 to 344.1)	5,770.5 (5,188.3 to 6,243.6)	131.3 (113.7 to 147.2)	2,281.3 (2,035.6 to 2,536.0)	276.3 (228.1 to 310.2)	4,900.4 (4,291.2 to 5,386.1)	114.7 (95.7 to 130.6)	1,892.9 (1,655.2 to 2,113.6)
Northern Ireland	Female	182.1 (159.6 to 201.6)	2,894.2 (2,598.9 to 3,155.1)	83.5 (70.5 to 95.8)	1,192.5 (1,044.1 to 1,338.3)	165.5 (132.6 to 185.8)	2,486.9 (2,037.9 to 2,742.1)	74.0 (60.9 to 86.5)	986.4 (837.0 to 1,126.1)
Scotland	Male	298.4 (260.9 to 335.8)	5,699.2 (5,104.7 to 6,296.2)	112.2 (95.7 to 128.3)	1,729.4 (1,836.1 to 2,329.1)	241.3 (208.3 to 276.8)	4,476.8 (3,952.9 to 5,009.0)	76.8 (64.0 to 89.9)	1,407.0 (1,222.4 to 1,591.3)
Scotland	Female	184.3 (160.0 to 207.7)	3,017.3 (2,683.4 to 3,333.7)	81.2 (69.1 to 93.8)	1,188.9 (1,032.8 to 1,347.2)	155.1 (131.0 to 179.3)	2,399.2 (2,068.1 to 2,689.9)	63.3 (52.4 to 74.4)	836.6 (709.1 to 955.7)
Wales	Male	279.2 (245.7 to 309.8)	5,182.7 (4,						

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Southern Latin America	Male	277.1 (246.5 to 305.9)	4,949.5 (4,480.8 to 5,407.8)	177.6 (159.3 to 195.0)	3,033.6 (2,755.0 to 3,296.9)	220.5 (192.9 to 247.7)	3,530.7 (3,134.5 to 3,934.8)	145.5 (126.6 to 161.7)	2,261.1 (2,022.1 to 2,481.3)
Southern Latin America	Female	170.2 (147.7 to 191.1)	2,574.9 (2,298.6 to 2,829.3)	110.6 (95.5 to 124.3)	1,580.0 (1,410.2 to 1,732.1)	135.4 (113.1 to 156.5)	1,824.1 (1,591.0 to 2,043.4)	88.4 (74.8 to 101.3)	1,136.4 (995.0 to 1,265.9)
Argentina	Male	288.9 (256.8 to 320.8)	5,275.0 (4,754.9 to 5,812.7)	195.5 (174.1 to 216.3)	3,437.4 (3,121.8 to 3,742.7)	226.3 (196.4 to 256.5)	3,680.5 (3,226.6 to 4,134.6)	159.2 (137.7 to 179.1)	2,565.3 (2,279.8 to 2,838.3)
Argentina	Female	172.7 (149.2 to 195.9)	2,631.6 (2,332.7 to 2,921.6)	119.3 (102.0 to 136.3)	1,754.8 (1,551.0 to 1,947.6)	136.1 (110.8 to 159.8)	1,821.5 (1,546.2 to 2,075.4)	95.5 (79.6 to 112.7)	1,270.1 (1,095.1 to 1,438.5)
Chile	Male	241.8 (213.5 to 266.3)	4,008.2 (3,602.5 to 4,377.1)	141.0 (124.0 to 157.8)	2,201.0 (1,953.5 to 2,445.5)	201.4 (173.9 to 225.3)	3,044.6 (2,712.6 to 3,357.2)	118.3 (101.2 to 133.6)	1,639.8 (1,427.2 to 1,835.7)
Chile	Female	162.7 (140.5 to 183.8)	2,427.4 (2,170.5 to 2,664.2)	92.1 (78.7 to 104.9)	1,216.4 (1,057.2 to 1,367.8)	132.1 (110.5 to 153.5)	1,815.0 (1,582.3 to 2,044.1)	73.4 (59.4 to 86.5)	861.2 (728.6 to 992.9)
Uruguay	Male	272.5 (242.7 to 301.0)	4,827.1 (4,322.5 to 5,273.2)	166.6 (148.3 to 184.1)	2,871.0 (2,578.7 to 3,161.4)	220.9 (190.0 to 249.5)	3,563.1 (3,086.1 to 3,952.2)	134.3 (117.1 to 151.9)	2,113.1 (1,863.4 to 2,384.1)
Uruguay	Female	169.2 (143.7 to 193.5)	2,524.5 (2,234.7 to 2,796.8)	102.8 (86.3 to 118.1)	1,432.5 (1,267.5 to 1,595.9)	136.6 (112.3 to 159.5)	1,849.1 (1,595.7 to 2,097.1)	80.4 (64.1 to 96.7)	1,015.2 (860.9 to 1,170.8)
Central Europe, Eastern Europe, and Central Asia	Male	445.2 (393.1 to 492.3)	8,535.7 (7,776.5 to 9,237.5)	368.0 (326.2 to 404.8)	7,212.1 (6,569.6 to 7,799.0)	368.8 (323.1 to 410.4)	6,815.4 (6,188.0 to 7,419.3)	309.1 (273.5 to 342.7)	5,806.8 (5,262.8 to 6,296.5)
Central Europe, Eastern Europe, and Central Asia	Female	310.3 (267.6 to 346.3)	4,872.4 (4,402.5 to 5,265.7)	228.7 (196.3 to 257.1)	3,513.8 (3,163.9 to 3,834.0)	271.9 (235.9 to 304.7)	4,121.0 (3,710.0 to 4,481.8)	196.0 (168.0 to 222.5)	2,856.0 (2,544.3 to 3,150.7)
Eastern Europe	Male	451.9 (397.9 to 501.6)	8,769.9 (7,959.3 to 9,515.9)	430.2 (378.8 to 474.1)	8,652.0 (7,830.1 to 9,426.8)	366.5 (320.0 to 410.5)	6,908.5 (6,231.1 to 7,555.1)	360.6 (316.3 to 400.8)	6,945.9 (6,234.3 to 7,592.0)
Eastern Europe	Female	311.9 (266.7 to 351.0)	4,878.3 (4,390.2 to 5,309.5)	252.5 (215.1 to 285.3)	3,914.0 (3,503.1 to 4,294.6)	273.7 (235.5 to 309.1)	4,166.4 (3,734.4 to 4,550.3)	216.9 (183.7 to 247.7)	3,200.9 (2,825.0 to 3,542.9)
Belarus	Male	417.8 (357.4 to 471.0)	8,210.2 (7,276.6 to 9,046.0)	506.6 (429.2 to 572.5)	9,945.4 (8,736.7 to 11,104.9)	334.7 (285.1 to 387.0)	6,394.3 (5,634.9 to 7,171.2)	423.7 (356.8 to 484.0)	8,086.4 (7,007.8 to 9,075.2)
Belarus	Female	299.5 (251.4 to 341.2)	4,698.6 (4,185.3 to 5,210.3)	274.2 (226.0 to 318.5)	4,171.4 (3,646.3 to 4,676.1)	263.8 (218.7 to 306.7)	4,017.1 (3,463.2 to 5,01.0)	238.6 (192.7 to 280.8)	3,497.3 (2,970.8 to 3,974.9)
Estonia	Male	526.7 (460.8 to 584.5)	9,970.0 (9,052.8 to 10,791.0)	285.0 (251.1 to 318.3)	9,497.3 (4,446.5 to 5,416.8)	474.9 (407.7 to 531.1)	8,769.2 (7,771.1 to 9,582.5)	257.3 (221.5 to 288.3)	4,335.6 (3,842.7 to 4,751.8)
Estonia	Female	327.7 (279.7 to 368.4)	4,889.5 (4,388.5 to 5,344.9)	183.9 (155.4 to 208.0)	2,398.6 (2,108.9 to 2,658.7)	302.6 (243.5 to 344.9)	4,400.8 (3,646.5 to 4,866.2)	169.2 (139.8 to 195.0)	2,127.9 (1,796.4 to 2,374.3)
Latvia	Male	478.0 (414.0 to 539.6)	9,371.8 (8,399.1 to 10,238.5)	323.9 (281.9 to 362.1)	6,307.7 (5,640.0 to 6,880.8)	386.1 (329.4 to 442.2)	7,371.2 (6,529.1 to 8,168.1)	271.8 (235.4 to 306.7)	5,135.4 (4,565.9 to 5,670.9)
Latvia	Female	318.7 (266.1 to 359.9)	4,933.4 (4,412.2 to 5,405.2)	194.8 (164.4 to 221.8)	2,857.7 (2,551.6 to 3,163.7)	281.6 (232.1 to 322.1)	4,231.9 (3,651.6 to 4,689.9)	170.3 (140.5 to 197.8)	2,402.2 (2,069.0 to 2,704.4)
Lithuania	Male	396.5 (342.7 to 445.7)	7,793.5 (7,041.9 to 8,488.3)	303.6 (262.4 to 339.3)	5,937.1 (5,340.5 to 6,479.9)	340.9 (291.0 to 386.7)	6,529.3 (5,855.5 to 7,437.6)	259.6 (221.1 to 294.3)	4,934.8 (4,372.5 to 5,416.3)
Lithuania	Female	277.3 (231.7 to 317.0)	4,169.9 (3,740.2 to 4,581.3)	169.8 (140.5 to 195.8)	2,469.9 (2,190.2 to 2,748.0)	250.6 (199.1 to 290.8)	3,651.6 (3,106.8 to 4,059.0)	149.3 (120.4 to 173.6)	2,079.5 (1,797.4 to 2,338.6)
Moldova	Male	428.1 (363.2 to 487.6)	7,693.6 (6,849.0 to 8,452.9)	374.2 (324.0 to 419.1)	6,590.2 (5,927.2 to 7,196.7)	347.1 (291.6 to 403.0)	6,077.1 (5,318.1 to 6,792.4)	326.8 (274.8 to 370.6)	5,601.7 (4,942.4 to 6,185.2)
Moldova	Female	365.1 (311.0 to 414.8)	5,808.5 (5,201.3 to 6,355.8)	269.2 (229.4 to 303.9)	3,935.6 (3,516.9 to 4,309.2)	323.6 (269.9 to 373.1)	4,993.1 (4,391.9 to 5,569.3)	247.3 (200.5 to 283.2)	3,529.1 (2,944.5 to 3,915.9)
Russia	Male	448.1 (393.2 to 498.8)	8,842.9 (7,980.7 to 9,653.5)	415.2 (366.4 to 459.1)	8,558.3 (7,717.3 to 9,398.7)	348.3 (304.2 to 391.9)	6,699.5 (6,014.7 to 7,348.8)	339.3 (297.3 to 379.9)	6,655.2 (5,923.9 to 7,353.1)
Russia	Female	306.3 (261.7 to 344.3)	4,839.6 (4,366.7 to 5,274.6)	239.3 (202.8 to 270.2)	3,776.0 (3,350.8 to 4,178.8)	265.9 (227.0 to 301.2)	4,099.4 (3,665.4 to 4,489.2)	201.6 (169.3 to 232.5)	3,007.4 (2,626.4 to 3,360.1)
Ukraine	Male	464.6 (406.0 to 515.7)	8,716.9 (7,923.5 to 9,485.9)	478.5 (415.8 to 537.1)	9,190.7 (8,259.9 to 10,034.5)	407.3 (347.8 to 457.4)	7,454.3 (6,679.5 to 8,166.3)	424.1 (361.6 to 481.0)	7,949.7 (7,005.2 to 8,738.6)
Ukraine	Female	326.2 (278.6 to 369.4)	4,985.9 (4,445.1 to 5,451.4)	296.6 (247.8 to 340.7)	4,463.6 (3,935.2 to 4,964.8)	291.7 (241.8 to 335.8)	4,327.2 (3,774.3 to 4,797.0)	263.9 (214.6 to 310.0)	3,837.8 (3,271.8 to 4,332.4)
Central Europe	Male	433.3 (384.9 to 477.2)	8,173.8 (7,504.4 to 8,805.0)	265.2 (234.6 to 291.4)	4,787.8 (4,371.4 to 5,160.7)	376.9 (333.1 to 415.9)	6,819.8 (6,221.8 to 7,367.5)	231.2 (204.7 to 255.3)	4,048.5 (3,689.2 to 4,386.2)
Central Europe	Female	303.8 (265.1 to 333.8)	4,728.9 (4,297.2 to 5,080.1)	173.7 (151.5 to 193.6)	2,489.2 (2,251.7 to 2,707.5)	275.9 (234.7 to 306.2)	4,130.4 (3,686.8 to 4,482.7)	154.9 (133.2 to 173.7)	2,123.4 (1,913.7 to 2,323.3)
Albania	Male	294.5 (258.6 to 328.7)	5,218.6 (4,703.4 to 5,735.1)	253.9 (209.6 to 300.4)	4,624.9 (3,992.2 to 5,252.6)	250.3 (218.0 to 283.8)	4,267.4 (3,804.6 to 4,734.5)	215.7 (178.9 to 256.3)	3,805.6 (3,278.9 to 4,362.2)
Albania	Female	203.9 (177.8 to 231.4)	3,215.7 (2,873.8 to 3,555.9)	172.5 (145.4 to 199.0)	2,600.8 (2,268.4 to 2,900.6)	181.3 (149.9 to 209.5)	2,691.6 (2,322.8 to 3,020.3)	149.4 (123.3 to 175.6)	2,147.4 (1,853.8 to 2,429.6)
Bosnia and Herzegovina	Male	339.0 (296.2 to 375.7)	6,317.4 (5,719.1 to 6,899.6)	195.4 (170.6 to 221.1)	3,564.3 (3,223.8 to 3,933.8)	285.2 (247.2 to 320.1)	5,053.7 (4,525.1 to 5,559.4)	165.7 (144.0 to 188.2)	2,904.5 (2,591.2 to 3,224.8)
Bosnia and Herzegovina	Female	270.2 (237.2 to 299.0)	4,378.5 (3,982.1 to 4,739.8)	144.5 (124.6 to 163.7)	2,219.7 (1,993.5 to 2,453.3)	250.8 (199.6 to 281.3)	3,922.7 (3,253.5 to 4,292.7)	131.0 (108.7 to 150.5)	1,930.0 (1,663.9 to 2,151.0)
Bulgaria	Male	472.3 (417.4 to 521.1)	8,731.3 (7,978.5 to 9,414.5)	386.3 (345.2 to 430.0)	7,134.6 (6,502.6 to 7,748.7)	410.5 (358.2 to 458.1)	6,585.1 to 7,919.6 (6,585.1 to 7,919.6)	232.9 (294.2 to 372.5)	5,952.0 (5,398.3 to 6,526.1)
Bulgaria	Female	358.8 (310.4 to 397.9)	5,416.5 (4,901.9 to 5,890.1)	252.7 (221.0 to 283.4)	3,705.0 (3,340.0 to 4,086.2)	324.1 (267.9 to 367.1)	4,671.7 (3,922.5 to 5,179.2)	222.9 (190.6 to 254.2)	3,118.8 (2,749.3 to 3,473.3)
Croatia	Male	393.0 (351.7 to 430.0)	7,105.9 (6,472.9 to 7,621.4)	222.7 (194.6 to 249.4)	3,948.5 (3,541.6 to 4,321.6)	347.5 (307.8 to 383.7)	6,040.7 (5,483.0 to 6,549.9)	193.9 (168.1 to 218.2)	3,343.7 (2,983.4 to 3,708.3)
Croatia	Female	283.6 (253.8 to 310.7)	4,236.0 (3,858.1 to 4,556.2)	166.2 (143.1 to 188.6)	2,291.4 (2,027.2 to 2,526.4)	262.0 (210.9 to 291.3)	3,758.6 (3,142.1 to 4,105.9)	149.4 (127.3 to 171.2)	1,982.4 (1,726.6 to 2,211.4)
Czech Republic	Male	450.2 (399.7 to 500.7)	8,370.1 (7,580.9 to 9,084.3)	201.9 (173.0 to 230.4)	3,456.1 (3,077.3 to 3,812.8)	388.5 (341.1 to 437.0)	7,008.5 (6,344.5 to 7,623.4)	167.7 (142.8 to 193.2)	2,773.8 (2,462.8 to 3,100.4)
Czech Republic	Female	285.0 (241.9 to 320.7)	4,353.8 (3,881.6 to 4,757.3)	136.7 (110.0 to 159.9)	1,843.3 (1,611.1 to 2,074.1)	252.7 (211.4 to 287.5)	4,267.4 (3,244.3 to 4,125.4)	113.3 (88.1 to 135.8)	1,441.3 (1,226.6 to 1,646.6)
Hungary	Male	475.5 (428.7 to 514.5)	9,402.1 (8,657.4 to 10,032.1)	272.7 (239.5 to 301.2)	4,898.4 (4,407.4 to 5,316.4)	433.5 (360.0 to 474.6)	8,268.1 (7,254.6 to 8,899.2)	251.5 (206.6 to 281.3)	4,377.4 (3,534.8 to 3,213.3)
Hungary	Female	317.8 (284.8 to 345.1)	5,077.5 (4,665.3 to 5,428.6)	184.9 (158.7 to 205.7)	2,584.5 (2,321.5 to 2,822.8)	295.2 (191.6 to 328.3)	6,793.3 (5,731.9 to 9,422.9)	167.7 (134.6 to 195.3)	3,049.0 (2,883.5 to 2,563.0)
Macedonia	Male	399.5 (359.2 to 437.4)	7,163.9 (6,599.7 to 7,712.2)	299.6 (262.3 to 337.3)	5,315.2 (4,762.5 to 5,861.8)	351.0 (312.8 to 388.2)	6,044.3 (5,517.0 to 6,568.4)	258.5 (223.3 to 293.0)	4,443.1 (3,941.6 to 4,921.4)
Macedonia	Female	333.1 (300.3 to 364.2)	5,260.6 (4,791.6 to 5,709.5)	221.1 (193.8 to 248.8)	3,373.3 (3,011.3 to 3,709.8)	305.6 (248.7 to 339.8)	4,616.0 (3,839.0 to 5,066.1)	197.0 (169.8 to 224.9)	2,880.1 (2,534.8 to 3,213.3)
Montenegro	Male	337.0 (295.4 to 378.2)	6,307.2 (5,629.9 to 6,954.2)	294.5 (254.5 to 331.1)	5,372.5 (4,7				

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Romania	Male	440.2 (391.4 to 484.1)	8,127.6 (7,432.7 to 8,747.0)	345.3 (307.5 to 382.4)	6,161.0 (5,607.9 to 6,683.2)	393.1 (348.9 to 431.6)	6,976.6 (6,312.5 to 7,533.1)	302.0 (269.1 to 336.0)	5,250.7 (4,766.9 to 5,737.6)
	Female	340.3 (300.2 to 374.7)	5,388.6 (4,949.8 to 5,810.7)	231.5 (203.6 to 259.4)	3,339.7 (3,017.4 to 3,662.4)	311.1 (265.9 to 346.9)	4,765.4 (4,140.0 to 5,197.8)	208.4 (179.7 to 235.6)	2,889.2 (2,551.0 to 3,208.7)
Serbia	Male	384.8 (340.1 to 427.9)	6,795.5 (6,133.7 to 7,415.5)	264.7 (235.8 to 293.7)	4,703.7 (4,279.2 to 5,128.3)	349.4 (291.8 to 390.9)	5,136.8 to 5,626.4 (5,136.8 to 5,626.4)	225.8 (198.6 to 253.7)	3,887.4 (3,499.3 to 4,273.1)
	Female	293.2 (256.3 to 331.8)	4,626.3 (4,150.6 to 5,114.1)	205.3 (178.5 to 231.5)	3,012.1 (2,716.7 to 3,305.8)	264.2 (226.6 to 298.8)	4,032.6 (3,599.4 to 4,476.3)	183.3 (157.0 to 208.7)	2,584.3 (2,306.2 to 2,859.6)
Slovakia	Male	470.1 (414.2 to 523.5)	8,946.9 (8,076.3 to 9,717.8)	254.0 (218.6 to 284.9)	4,507.3 (4,033.5 to 4,950.1)	413.0 (357.8 to 463.9)	7,561.5 (6,762.9 to 8,300.6)	221.2 (188.9 to 249.5)	3,822.0 (3,392.0 to 4,223.2)
	Female	314.8 (272.2 to 350.8)	4,830.5 (4,358.6 to 5,266.9)	168.4 (139.0 to 193.3)	2,331.7 (2,030.8 to 2,581.9)	288.1 (227.5 to 328.0)	4,243.9 (3,464.3 to 4,706.7)	150.1 (121.1 to 174.2)	1,996.7 (1,712.1 to 2,234.3)
Slovenia	Male	280.4 to 341.5	5,163.7 to 6,086.0	117.3 to 151.2	2,061.6 to 2,566.9	247.1 to 306.5	4,390.6 to 5,245.6	102.5 to 133.8	1,981.9 (1,758.1 to 2,189.5)
	Female	213.9 (188.7 to 236.7)	3,109.6 (2,823.5 to 3,381.2)	96.3 (82.1 to 109.8)	1,266.1 (1,117.7 to 1,417.0)	196.1 (151.3 to 221.3)	2,737.9 (2,255.7 to 3,025.8)	86.1 (72.2 to 98.9)	1,083.3 (940.9 to 1,220.8)
Central Asia	Male	443.8 (386.9 to 496.4)	8,366.4 (7,554.4 to 9,128.8)	411.4 (360.3 to 457.1)	7,859.7 (7,079.5 to 8,576.4)	294.0 to 379.5	5,487.9 to 6,695.7	282.8 to 363.0	5,357.0 to 6,525.8
	Female	316.4 (272.4 to 358.2)	5,134.1 (4,593.9 to 5,627.0)	262.9 (226.7 to 297.9)	4,213.8 (3,779.2 to 4,634.6)	245.2 (208.7 to 278.3)	3,738.4 (3,312.0 to 4,134.7)	202.8 (172.5 to 231.9)	3,074.7 (2,742.5 to 3,410.3)
Armenia	Male	387.1 (336.8 to 435.5)	7,076.5 (6,363.5 to 7,800.4)	320.5 (279.0 to 359.8)	5,954.4 (5,338.9 to 6,585.9)	327.9 (282.3 to 371.0)	5,785.9 (5,146.1 to 6,392.4)	275.1 (238.2 to 311.5)	4,932.2 (4,404.4 to 5,467.8)
	Female	310.6 (266.7 to 349.0)	4,676.4 (4,175.9 to 5,147.7)	212.4 (179.7 to 240.5)	3,099.1 (2,724.0 to 3,426.4)	287.4 (245.1 to 325.1)	4,196.3 (3,736.1 to 4,627.5)	195.7 (165.8 to 222.0)	2,752.8 (2,423.4 to 3,066.9)
Azerbaijan	Male	518.3 (442.6 to 592.2)	8,456.7 to 10,549.6	348.5 (292.4 to 411.1)	6,639.2 (5,727.5 to 7,567.3)	340.3 to 463.3	6,155.6 to 7,874.2	275.0 (229.2 to 325.9)	4,993.6 (4,261.5 to 5,751.8)
	Female	399.1 (335.3 to 460.9)	5,906.7 (5,203.5 to 6,586.2)	237.9 (202.4 to 274.5)	3,792.3 (3,295.4 to 4,285.5)	329.9 (273.1 to 386.0)	4,597.5 (4,017.6 to 5,198.6)	194.0 (162.9 to 225.0)	2,900.1 (2,505.5 to 3,308.5)
Georgia	Male	518.0 (454.9 to 578.2)	9,927.4 (8,913.8 to 10,998.1)	467.1 (411.5 to 518.9)	8,789.1 (7,786.4 to 9,725.1)	396.5 to 513.1	7,497.6 to 9,323.0	195.6 (354.4 to 451.5)	2,680.9 (6,390.1 to 8,024.0)
	Female	332.7 (283.9 to 378.2)	5,300.7 (4,704.1 to 5,863.6)	235.4 (201.9 to 267.8)	3,457.1 (3,050.3 to 3,888.9)	287.5 (245.0 to 327.5)	4,316.6 (3,810.9 to 4,806.1)	195.6 (166.8 to 224.2)	2,636.6 (2,338.4 to 3,034.2)
Kazakhstan	Male	409.7 (358.2 to 459.2)	7,982.1 (7,150.4 to 8,734.7)	412.5 (354.3 to 472.8)	8,457.4 (7,328.4 to 9,608.9)	264.0 to 345.2	5,036.6 to 6,293.7	214.0 (267.4 to 362.6)	6,193.1 (5,363.3 to 7,064.1)
	Female	277.1 (237.6 to 314.6)	4,448.3 (3,939.2 to 4,912.0)	251.2 (210.7 to 293.4)	4,051.4 (3,509.9 to 4,611.9)	208.8 (175.8 to 240.8)	3,147.0 (2,755.2 to 3,519.8)	187.6 (155.1 to 222.3)	2,843.7 (2,446.7 to 3,268.6)
Kyrgyzstan	Male	368.0 (312.3 to 420.2)	6,945.2 (6,000.3 to 7,869.9)	380.0 (325.4 to 440.5)	7,436.2 (6,515.7 to 8,473.5)	231.1 (193.9 to 270.4)	4,102.8 (3,515.2 to 4,705.1)	241.1 (201.9 to 282.3)	4,489.2 (3,848.2 to 5,170.5)
	Female	274.0 (231.4 to 316.2)	4,445.6 (3,877.6 to 5,002.0)	254.7 (213.0 to 297.7)	4,106.3 (3,568.0 to 4,681.7)	186.4 (157.0 to 218.4)	2,772.9 (2,410.7 to 3,154.7)	175.6 (144.7 to 207.8)	2,636.6 (2,264.7 to 3,026.0)
Mongolia	Male	395.0 (347.5 to 448.0)	7,959.0 (7,099.3 to 8,891.5)	473.1 (412.8 to 530.0)	9,922.7 (8,812.3 to 11,048.0)	301.7 (263.2 to 345.2)	5,862.2 (5,179.9 to 6,643.7)	374.4 (326.2 to 421.8)	7,707.3 (6,791.3 to 8,630.1)
	Female	338.6 (289.5 to 388.8)	6,459.6 (5,657.8 to 7,248.7)	294.8 (248.0 to 345.6)	5,358.5 (4,647.4 to 6,187.9)	260.6 (220.9 to 302.0)	4,654.9 (4,020.7 to 5,246.0)	227.6 (189.3 to 268.3)	3,931.1 (3,388.9 to 4,584.1)
Tajikistan	Male	381.6 (327.1 to 431.9)	6,932.2 (6,114.4 to 7,684.1)	314.2 (270.6 to 356.1)	5,713.4 (5,025.1 to 6,366.4)	297.5 (252.9 to 339.0)	5,215.0 (4,571.0 to 5,818.6)	244.7 (208.8 to 280.3)	4,300.3 (3,778.9 to 4,816.5)
	Female	303.9 (259.5 to 345.2)	5,121.1 (4,535.3 to 5,694.2)	271.6 (321.6 to 316.1)	4,280.5 (3,777.4 to 4,844.2)	234.5 (198.4 to 270.5)	3,713.1 (3,270.6 to 4,165.6)	214.0 (179.8 to 251.6)	3,203.8 (2,801.5 to 3,647.1)
Turkmenistan	Male	490.1 (424.9 to 550.0)	9,660.8 (8,659.3 to 10,614.9)	464.2 (403.2 to 524.5)	9,025.3 (8,152.5 to 9,967.8)	383.0 (331.2 to 435.9)	7,271.1 (6,455.9 to 8,105.2)	369.2 (316.0 to 421.6)	6,918.0 (6,159.7 to 7,719.2)
	Female	339.8 (291.7 to 388.5)	5,993.1 (5,337.2 to 6,647.8)	291.5 (245.0 to 336.6)	4,847.5 (4,289.2 to 5,431.5)	261.2 (220.4 to 301.7)	4,327.0 (3,826.4 to 4,833.1)	223.8 (186.9 to 260.4)	3,496.9 (3,061.3 to 3,955.8)
Uzbekistan	Male	457.8 (398.9 to 517.5)	8,404.6 (7,487.0 to 9,290.0)	448.0 (392.8 to 502.7)	8,224.1 (7,388.1 to 9,044.4)	320.9 (273.8 to 368.6)	5,643.2 (4,977.7 to 6,328.5)	352.9 (302.2 to 398.5)	6,312.7 (5,584.8 to 6,960.8)
	Female	341.9 (290.8 to 390.8)	5,644.6 (4,959.1 to 6,274.1)	293.7 (247.5 to 339.9)	4,744.3 (4,121.7 to 5,326.1)	244.5 (207.3 to 283.6)	3,792.9 (3,263.9 to 4,292.3)	216.6 (180.0 to 254.8)	3,394.5 (2,913.2 to 3,890.2)
Latin America and Caribbean	Male	381.6 (187.7 to 233.8)	6,932.2 (3,756.1 to 4,570.3)	314.2 (150.1 to 186.4)	5,713.4 (2,877.5 to 3,459.2)	297.5 (121.2 to 153.9)	5,215.0 (2,293.6 to 2,828.1)	223.8 (107.6 to 135.3)	4,300.3 (3,778.9 to 4,816.5)
	Female	169.2 (149.7 to 188.0)	3,020.2 (2,722.6 to 3,303.3)	128.2 (113.4 to 142.3)	2,111.2 (1,899.9 to 2,313.7)	119.1 (104.6 to 133.3)	1,926.6 (1,731.0 to 2,123.7)	96.0 (84.5 to 106.9)	1,432.7 (1,286.8 to 1,575.9)
Central Latin America	Male	167.8 (150.1 to 186.8)	3,198.3 (2,893.5 to 3,491.3)	154.0 (136.6 to 171.2)	2,799.9 (2,521.5 to 3,079.5)	112.9 (99.8 to 126.9)	2,026.1 (1,821.6 to 2,420.1)	107.8 (95.2 to 121.0)	1,818.5 (1,633.3 to 2,007.6)
	Female	140.8 (124.6 to 155.3)	2,429.6 (2,208.0 to 2,643.1)	122.8 (108.2 to 137.2)	1,946.2 (1,747.3 to 2,139.9)	101.9 (89.7 to 113.2)	1,596.5 (1,443.5 to 1,741.3)	88.0 (76.6 to 99.0)	1,259.2 (1,122.0 to 1,390.5)
Colombia	Male	231.5 (207.1 to 251.1)	4,201.0 (3,790.5 to 4,593.3)	155.0 (136.6 to 173.3)	2,566.8 (2,316.9 to 2,830.3)	181.1 (158.6 to 202.9)	2,999.0 (2,685.5 to 3,330.2)	127.6 (110.3 to 144.3)	1,960.8 (1,756.4 to 2,174.2)
	Female	182.8 (162.8 to 202.0)	3,102.5 (2,817.2 to 3,373.2)	111.6 (96.3 to 125.4)	1,677.9 (1,487.6 to 1,854.4)	147.3 (128.8 to 165.2)	2,255.8 (2,020.0 to 2,483.4)	91.2 (76.9 to 105.0)	1,237.7 (1,084.8 to 1,388.5)
Costa Rica	Male	176.1 (151.5 to 208.8)	3,055.0 (2,731.3 to 3,376.8)	126.0 (110.8 to 141.7)	2,258.8 (2,012.2 to 2,501.3)	138.8 (117.3 to 161.4)	2,287.3 (2,010.1 to 2,556.4)	99.9 (86.9 to 114.0)	1,690.6 (1,492.0 to 1,884.7)
	Female	139.0 (120.4 to 155.9)	2,187.6 (1,958.5 to 2,403.6)	95.9 (83.3 to 107.4)	1,473.4 (1,310.2 to 1,632.8)	117.3 (99.5 to 133.8)	1,704.0 (1,507.7 to 1,899.7)	80.0 (68.8 to 91.3)	1,115.2 (97.2 to 1,245.1)
El Salvador	Male	198.7 (170.4 to 233.6)	3,921.2 (3,433.0 to 4,583.7)	184.1 (146.2 to 213.2)	3,850.6 (3,000.7 to 4,428.5)	128.6 (108.5 to 153.4)	2,792.9 (2,363.9 to 2,492.3)	107.8 (80.0 to 124.8)	1,818.5 (2,913.2 to 3,890.2)
	Female	160.6 (138.2 to 181.8)	2,928.4 (2,602.6 to 3,263.2)	132.7 (113.1 to 152.9)	2,307.0 (2,015.4 to 2,619.4)	116.1 (97.9 to 135.3)	1,893.4 (1,656.8 to 2,159.0)	96.3 (80.3 to 113.7)	1,449.6 (1,243.2 to 1,675.2)
Guatemala	Male	131.5 (112.6 to 149.7)	2,571.8 (2,258.7 to 2,866.7)	119.9 (97.6 to 141.8)	2,384.1 (1,955.8 to 2,815.0)	77.2 (63.1 to 91.7)	1,364.3 (1,155.6 to 1,580.1)	74.8 (58.5 to 90.5)	1,348.4 (1,095.9 to 1,614.9)
	Female	127.6 (108.8 to 145.9)	2,331.2 (2,042.5 to 2,606.4)	115.5 (89.7 to 142.5)	1,952.4 (1,548.4 to 2,372.7)	79.7 (64.1 to 95.3)	1,277.5 (1,064.2 to 1,466.2)	74.5 (56.3 to 94.3)	1,107.1 (860.9 to 1,371.6)
Honduras	Male	183.5 (155.8 to 209.8)	3,846.2 (3,341.7 to 4,368.0)	206.4 (159.8 to 272.8)	3,814.4 (2,936.9 to 5,111.5)	120.9 (100.7 to 142.5)	2,349.9 (1,991.6 to 2,710.0)	144.7 (111.9 to 193.1)	2,547.8 (1,965.9 to 3,419.1)
	Female	177.9 (150.4 to 206.2)	3,343.8 (2,903.0 to 3,785.9)	215.0 (157.9 to 277.4)	3,428.4 (2,505.6 to 4,419.5)	126.7 (104.2 to 149.0)	2,130.3 (1,805.8 to 2,449.5)	158.5 (113.8 to 205.4)	2,356.3 (1,715.7 to 3,057.8)
Mexico	Male	128.0 (113.9 to 143.4)	2,477.0 (2,231.1 to 2,72						

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Panama	Male	173.4 (146.1 to 199.1)	3,104.7 (2,702.1 to 3,506.9)	135.4 (110.9 to 164.4)	2,391.6 (1,988.9 to 2,869.3)	115.2 (94.8 to 136.9)	1,954.0 (1,665.9 to 2,240.8)	94.5 (76.1 to 117.7)	1,564.7 (1,285.9 to 1,908.7)
	Female	132.1 (110.4 to 154.9)	2,099.7 (1,818.6 to 2,390.9)	93.2 (75.2 to 111.5)	1,417.6 (1,168.8 to 1,678.9)	92.7 (75.1 to 112.0)	1,340.7 (1,128.2 to 1,558.6)	66.1 (51.0 to 82.7)	891.6 (719.9 to 1,071.3)
Venezuela	Male	254.0 (225.4 to 282.8)	4,725.8 (4,285.0 to 5,159.0)	216.0 (182.7 to 254.2)	3,940.2 (3,338.0 to 4,615.5)	185.7 (160.6 to 211.6)	3,362.8 (2,979.0 to 3,742.7)	162.3 (134.6 to 195.0)	2,792.1 (2,360.8 to 3,335.8)
	Female	202.3 (175.4 to 226.3)	3,301.9 (2,975.4 to 3,614.4)	145.3 (121.0 to 173.2)	2,172.8 (1,823.8 to 2,573.2)	151.9 (129.0 to 174.1)	2,307.6 (2,020.9 to 2,571.5)	109.1 (87.7 to 133.5)	1,476.0 (1,209.7 to 1,768.7)
Andean Latin America	Male	142.5 (122.5 to 162.7)	2,635.8 (2,285.7 to 2,987.4)	112.9 (96.7 to 129.3)	2,056.0 (1,787.9 to 2,337.4)	81.3 (67.2 to 96.5)	1,266.1 (1,079.8 to 1,479.1)	76.4 (65.2 to 88.7)	1,251.0 (1,072.2 to 1,432.2)
	Female	122.2 (104.1 to 141.0)	2,131.2 (1,856.3 to 2,411.6)	96.4 (81.7 to 111.0)	1,500.2 (1,291.8 to 1,712.8)	64.4 (53.6 to 76.3)	966.7 (823.1 to 1,120.0)	66.7 (55.4 to 77.9)	876.6 (745.7 to 1,011.8)
Bolivia	Male	168.5 (142.7 to 195.1)	3,327.6 (2,831.8 to 3,851.2)	145.5 (117.7 to 186.0)	2,712.1 (2,140.2 to 3,490.7)	100.6 (83.2 to 119.8)	1,697.1 (1,411.1 to 2,022.1)	101.0 (80.8 to 129.5)	1,688.4 (1,328.7 to 2,142.2)
	Female	168.3 (136.8 to 205.0)	3,190.1 (2,624.5 to 3,836.0)	156.8 (118.2 to 196.6)	2,508.3 (1,931.2 to 3,134.1)	97.5 (77.6 to 121.3)	1,590.3 (1,281.2 to 1,950.3)	112.0 (83.5 to 141.3)	1,537.5 (1,185.5 to 1,932.8)
Ecuador	Male	130.5 (110.9 to 153.0)	2,401.6 (2,064.6 to 2,791.3)	146.1 (124.0 to 173.6)	2,591.5 (2,217.0 to 3,042.3)	64.2 (51.2 to 79.1)	995.8 (815.9 to 1,205.5)	91.1 (74.1 to 110.8)	1,469.1 (1,221.1 to 1,757.2)
	Female	106.1 (89.9 to 121.8)	1,823.3 (1,572.7 to 2,063.3)	110.7 (93.3 to 128.4)	1,717.5 (1,454.7 to 1,994.8)	52.0 (41.9 to 62.9)	747.2 (626.4 to 878.3)	70.2 (57.9 to 82.8)	936.1 (780.3 to 1,091.1)
Peru	Male	140.1 (116.2 to 163.3)	2,530.0 (2,161.0 to 2,920.7)	84.5 (69.7 to 101.4)	1,570.4 (1,308.9 to 1,854.1)	84.2 (66.6 to 103.8)	1,264.4 (1,044.7 to 1,502.4)	60.3 (49.0 to 73.2)	996.9 (827.5 to 1,181.0)
	Female	114.6 (95.5 to 134.7)	1,931.2 (1,668.1 to 2,201.5)	70.3 (57.1 to 85.1)	1,085.3 (893.9 to 1,286.7)	59.6 (47.9 to 71.8)	864.9 (723.7 to 1,017.9)	50.6 (40.5 to 62.2)	642.2 (520.2 to 769.6)
Caribbean	Male	209.6 (182.1 to 236.9)	4,213.5 (3,744.6 to 4,687.4)	186.2 (164.0 to 207.5)	3,580.1 (3,170.3 to 3,974.8)	129.2 (110.9 to 148.0)	2,465.5 (2,165.2 to 2,759.5)	129.4 (113.2 to 145.0)	2,357.1 (2,083.0 to 2,632.6)
	Female	198.2 (174.2 to 222.0)	3,719.1 (3,295.0 to 4,165.3)	158.8 (137.3 to 180.6)	2,722.5 (2,342.6 to 3,115.8)	133.7 (115.8 to 151.7)	2,317.2 (2,044.4 to 2,597.6)	111.2 (94.9 to 126.9)	1,745.7 (1,492.5 to 2,015.6)
Antigua and Barbuda	Male	226.1 (197.9 to 256.5)	4,593.4 (4,050.3 to 5,141.2)	192.1 (155.7 to 224.1)	3,555.4 (2,964.6 to 4,061.9)	147.6 (126.2 to 172.9)	2,832.0 (2,455.9 to 3,256.6)	142.2 (113.0 to 168.7)	2,491.7 (2,034.8 to 2,891.0)
	Female	191.0 (162.6 to 216.4)	3,287.1 (2,876.7 to 3,677.3)	151.5 (128.7 to 172.9)	2,346.5 (2,015.6 to 2,640.4)	131.0 (110.1 to 153.3)	2,062.6 (1,774.3 to 2,340.8)	108.6 (90.8 to 126.8)	1,521.3 (1,290.9 to 1,740.6)
The Bahamas	Male	297.2 (263.8 to 332.1)	6,003.4 (5,382.1 to 6,609.7)	226.3 (195.5 to 257.0)	4,391.8 (3,789.8 to 5,004.8)	196.5 (169.3 to 225.2)	3,742.5 (3,271.7 to 4,201.6)	168.2 (142.9 to 192.7)	3,079.2 (2,628.6 to 3,535.0)
	Female	237.0 (210.4 to 264.1)	4,127.9 (3,713.9 to 4,555.6)	183.6 (158.0 to 210.3)	2,961.9 (2,566.0 to 3,354.5)	165.6 (143.8 to 188.7)	2,638.8 (2,318.0 to 2,969.3)	132.9 (112.9 to 156.8)	1,950.7 (1,663.5 to 2,265.7)
Barbados	Male	218.4 (192.3 to 245.1)	4,318.6 (3,870.5 to 4,762.7)	149.2 (127.8 to 176.7)	2,962.7 (2,581.5 to 3,416.2)	144.7 (124.5 to 166.4)	2,720.4 (2,394.9 to 3,044.3)	115.3 (97.6 to 138.6)	2,120.2 (1,828.2 to 2,477.7)
	Female	155.5 (134.9 to 177.1)	2,627.2 (2,356.8 to 2,926.4)	122.2 (104.6 to 144.4)	2,057.7 (1,791.3 to 2,392.9)	111.4 (95.5 to 127.4)	1,729.2 (1,527.0 to 1,946.9)	92.9 (78.1 to 110.4)	1,406.1 (1,200.9 to 1,640.1)
Belize	Male	215.7 (189.1 to 246.4)	4,184.0 (3,714.6 to 4,728.0)	209.1 (179.3 to 238.2)	4,023.6 (3,464.0 to 4,644.1)	142.7 (121.9 to 168.0)	2,538.5 (2,208.6 to 2,930.0)	147.4 (124.4 to 170.1)	2,634.6 (2,217.9 to 3,020.6)
	Female	188.6 (158.5 to 219.1)	3,261.0 (2,822.4 to 3,712.9)	156.1 (132.3 to 178.5)	2,729.7 (2,345.4 to 3,087.1)	127.0 (104.9 to 149.0)	1,967.0 (1,656.3 to 2,277.2)	103.4 (86.5 to 122.3)	1,600.0 (1,350.4 to 1,855.1)
Bermuda	Male	320.5 (279.6 to 364.6)	6,436.1 (5,711.5 to 7,185.5)	164.8 (141.6 to 189.3)	2,941.6 (2,561.6 to 3,346.1)	227.1 (194.0 to 261.7)	4,289.4 (3,741.1 to 4,894.7)	121.9 (102.7 to 141.7)	2,063.9 (1,774.6 to 2,368.6)
	Female	178.4 (151.4 to 207.5)	2,933.1 (2,573.2 to 3,329.9)	89.3 (72.5 to 107.6)	1,246.2 (1,032.3 to 1,467.1)	118.0 (97.8 to 140.2)	1,743.9 (1,495.6 to 2,014.6)	61.0 (48.7 to 76.2)	768.6 (631.1 to 918.5)
Cuba	Male	183.8 (155.4 to 213.3)	3,605.7 (3,154.2 to 4,062.2)	150.8 (129.4 to 171.7)	2,774.2 (2,456.7 to 3,070.3)	107.5 (88.5 to 127.3)	2,053.1 (1,770.2 to 2,370.0)	97.0 (82.0 to 113.1)	1,722.4 (1,497.3 to 1,945.7)
	Female	139.8 (117.7 to 162.8)	2,488.7 (2,184.0 to 2,798.3)	110.9 (94.1 to 130.1)	1,713.1 (1,488.0 to 1,934.3)	85.8 (71.4 to 100.6)	1,436.9 (1,248.6 to 1,638.4)	70.4 (57.4 to 85.4)	1,010.6 (865.9 to 1,175.7)
Dominica	Male	217.1 (191.2 to 248.9)	4,244.9 (3,795.5 to 4,817.5)	218.6 (183.2 to 258.4)	4,404.0 (3,768.9 to 5,118.6)	161.5 (139.8 to 188.4)	2,983.8 (2,636.0 to 3,396.0)	166.2 (136.4 to 198.5)	3,164.7 (2,683.0 to 3,705.7)
	Female	229.2 (200.1 to 252.7)	3,907.0 (3,482.3 to 4,360.6)	165.4 (141.3 to 194.8)	2,752.0 (2,385.3 to 3,199.7)	162.1 (138.8 to 189.5)	2,495.6 (2,192.3 to 2,855.5)	115.3 (97.1 to 138.3)	1,696.0 (1,450.4 to 1,986.8)
Dominican Republic	Male	169.2 (144.9 to 192.9)	3,291.0 (2,872.6 to 3,710.2)	208.7 (181.6 to 235.6)	3,747.8 (3,333.9 to 4,184.7)	108.0 (89.8 to 126.6)	1,970.2 (1,683.9 to 2,259.0)	153.2 (130.6 to 177.0)	2,594.5 (2,278.4 to 2,939.0)
	Female	156.9 (137.1 to 177.1)	2,776.2 (2,479.1 to 3,102.5)	169.2 (147.9 to 191.9)	2,647.1 (2,366.7 to 2,918.9)	111.8 (96.1 to 128.5)	1,787.2 (1,589.7 to 2,014.0)	124.7 (106.5 to 144.4)	1,773.6 (1,562.6 to 1,986.9)
Grenada	Male	281.6 (245.4 to 316.4)	5,613.8 (4,965.6 to 6,239.3)	241.6 (214.1 to 272.8)	4,912.2 (4,359.0 to 5,551.2)	176.7 (151.3 to 203.6)	3,326.8 (2,881.6 to 3,764.0)	173.7 (149.9 to 199.4)	3,312.1 (2,902.5 to 3,783.9)
	Female	240.8 (211.9 to 271.6)	4,415.0 (3,914.5 to 4,905.8)	188.8 (162.9 to 215.3)	3,301.4 (2,909.6 to 3,738.7)	143.0 (124.0 to 192.8)	2,828.1 (2,479.0 to 3,188.1)	133.9 (113.4 to 156.5)	2,097.2 (1,823.5 to 2,417.5)
Guyana	Male	417.5 (369.8 to 464.4)	8,850.9 (7,882.1 to 9,894.2)	354.8 (298.2 to 409.2)	7,020.7 (5,767.5 to 8,208.1)	262.5 (226.7 to 299.1)	5,302.4 (4,591.3 to 6,006.7)	253.8 (211.0 to 294.2)	4,782.6 (3,910.8 to 5,606.1)
	Female	345.3 (306.2 to 382.4)	6,466.0 (5,762.9 to 7,160.4)	279.7 (239.2 to 323.9)	4,939.5 (4,217.8 to 5,775.1)	208.0 (217.2 to 282.2)	4,313.3 (3,805.4 to 4,833.0)	205.4 (174.5 to 239.7)	3,320.1 (2,828.6 to 3,873.5)
Haiti	Male	303.1 (253.1 to 351.7)	6,370.1 (5,290.5 to 7,417.9)	260.9 (198.6 to 332.4)	5,304.2 (3,915.9 to 6,836.5)	181.1 (148.5 to 214.1)	3,557.3 (2,918.6 to 4,183.0)	178.7 (134.5 to 230.1)	3,398.8 (2,507.6 to 4,422.9)
	Female	459.4 (387.1 to 543.1)	9,026.7 (7,447.2 to 10,647.9)	331.0 (240.5 to 429.3)	6,122.4 (4,309.8 to 8,187.7)	329.2 (272.5 to 389.8)	5,957.8 (4,893.4 to 7,074.0)	244.4 (175.4 to 319.6)	4,141.6 (2,934.2 to 5,538.1)
Jamaica	Male	179.4 (158.2 to 202.7)	3,280.9 (2,906.2 to 3,683.2)	167.1 (139.6 to 197.3)	3,181.9 (2,703.1 to 3,710.1)	102.2 (86.2 to 120.8)	1,699.8 (1,473.9 to 1,972.3)	116.7 (97.6 to 140.4)	2,133.7 (1,782.0 to 2,514.2)
	Female	181.9 (155.3 to 204.3)	3,105.4 (2,727.9 to 3,449.6)	156.1 (130.6 to 183.1)	2,574.2 (2,191.2 to 2,974.3)	121.0 (99.2 to 140.6)	1,841.9 (1,551.6 to 2,103.5)	114.2 (93.1 to 134.5)	1,747.3 (1,488.0 to 2,030.6)
Puerto Rico	Male	187.1 (162.4 to 211.6)	3,681.3 (3,258.4 to 4,081.4)	140.2 (122.9 to 158.9)	2,584.1 (2,303.4 to 2,884.0)	123.6 (104.0 to 143.5)	2,318.5 (2,020.5 to 2,624.9)	104.8 (90.1 to 120.7)	1,836.8 (1,562.6 to 1,986.9)
	Female	133.3 (114.0 to 152.2)	2,179.5 (1,938.4 to 2,413.2)	97.3 (83.9 to 112.1)	1,441.3 (1,267.8 to 1,629.4)	92.1 (77.0 to 106.2)	1,385.2 (1,204.6 to 1,570.0)	70.5 (59.1 to 82.8)	946.2 (814.1 to 1,078.7)
Saint Lucia	Male	239.7 (204.6 to 274.7)	4,760.8 (4,190.4 to 5,335.3)	175.9 (151.2 to 199.1)	3,398.3 (2,959.8 to 3,815.8)	153.1 (128.0 to 179.0)	2,897.7 (2,481.5 to 3,297.3)	125.8 (106.7 to 145.4)	2,329.9 (2,016.7 to 2,646.0)
	Female	226.9 (201.0 to 254.5)	3,988.5 (3,587.9 to 4,410.6)	161.2 (138.2 to 189.1)	2,535.8 (2,204.4 to 2,886.0)	156.1 (135.5 to 177.9)	2,562.1 (2,266.0 to 2,861.9)	113.6 (95.0 to 134.4)	1,650.3 (1,410.1 to 1,917.4)
Saint Vincent and the Grenadines	Male								

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Trinidad and Tobago	Male	374.1 (337.2 to 408.7)	7,144.1 (6,509.3 to 7,721.1)	279.7 (244.2 to 321.7)	5,392.6 (4,750.4 to 6,203.4)	311.7 (277.9 to 341.8)	5,565.4 (5,071.9 to 6,060.2)	236.7 (206.2 to 274.6)	4,314.9 (3,783.4 to 5,001.7)
	Female	256.6 (230.7 to 282.6)	4,546.4 (4,125.0 to 4,969.6)	173.6 (148.9 to 203.6)	2,935.6 (2,568.1 to 3,384.9)	197.3 (173.9 to 220.4)	3,197.5 (2,869.5 to 3,534.3)	134.7 (113.4 to 158.5)	2,118.7 (1,836.9 to 2,459.0)
Virgin Islands, U.S.	Male	254.3 (222.1 to 289.9)	4,860.2 (4,305.7 to 5,413.0)	243.1 (205.5 to 277.1)	4,661.2 (3,968.2 to 5,345.5)	169.1 (144.5 to 196.3)	3,080.1 (2,672.6 to 3,481.7)	180.9 (151.8 to 209.9)	3,297.5 (2,793.1 to 3,809.2)
	Female	192.9 (163.1 to 220.9)	3,064.5 (2,681.2 to 3,435.6)	155.8 (132.8 to 179.7)	2,345.0 (2,026.7 to 2,662.1)	134.6 (111.6 to 157.9)	1,971.6 (1,701.8 to 2,248.2)	112.3 (94.0 to 132.1)	1,538.0 (1,308.4 to 1,764.7)
Tropical Latin America	Male	281.6 (250.7 to 313.5)	5,619.2 (5,061.5 to 6,202.5)	192.5 (170.9 to 215.2)	3,738.7 (3,350.2 to 4,131.1)	185.5 (162.9 to 208.4)	3,524.6 (3,146.5 to 3,908.4)	144.8 (127.4 to 162.7)	2,692.7 (2,402.7 to 3,004.2)
	Female	202.8 (178.0 to 226.6)	3,639.6 (3,252.5 to 4,000.4)	133.2 (117.2 to 148.6)	2,272.1 (2,035.0 to 2,495.9)	148.0 (128.5 to 167.8)	2,396.8 (2,129.6 to 2,667.2)	106.8 (94.0 to 120.2)	1,653.2 (1,477.9 to 1,830.9)
Brazil	Male	284.7 (253.6 to 317.2)	5,681.5 (5,118.3 to 6,276.2)	192.3 (170.6 to 215.3)	3,736.4 (3,344.1 to 4,131.3)	187.5 (164.8 to 211.0)	3,563.9 (3,182.9 to 3,954.3)	144.8 (127.2 to 162.8)	2,694.0 (2,396.8 to 3,005.7)
Brazil	Female	203.7 (178.6 to 227.7)	3,655.4 (3,267.8 to 4,015.5)	132.5 (116.8 to 148.1)	2,260.9 (2,025.0 to 2,484.8)	148.4 (128.8 to 168.5)	2,402.8 (2,134.6 to 2,676.2)	106.2 (93.6 to 119.7)	1,644.4 (1,470.2 to 1,821.3)
Paraguay	Male	178.2 (149.4 to 208.4)	3,420.0 (2,942.5 to 3,926.7)	199.1 (162.8 to 241.5)	3,830.9 (3,171.0 to 4,638.2)	118.0 (96.2 to 143.0)	2,151.6 (1,805.0 to 2,522.1)	144.6 (115.6 to 178.8)	2,647.2 (2,136.9 to 3,251.6)
Paraguay	Female	171.4 (140.8 to 200.3)	3,033.9 (2,608.9 to 3,463.4)	166.4 (135.4 to 201.0)	2,775.2 (2,318.3 to 3,319.1)	133.5 (109.9 to 159.3)	2,180.0 (1,861.1 to 2,547.9)	134.1 (107.9 to 165.6)	2,048.1 (1,691.5 to 2,472.3)
Southeast Asia, East Asia, and Oceania	Male	226.7 (200.6 to 256.1)	4,290.7 (3,782.7 to 4,811.8)	220.1 (194.6 to 245.8)	4,089.8 (3,657.9 to 4,528.4)	138.5 (121.2 to 158.5)	2,410.4 (2,118.9 to 2,736.5)	163.8 (147.3 to 188.1)	2,953.9 (2,636.2 to 3,290.2)
Southeast Asia, East Asia, and Oceania	Female	195.7 (172.4 to 219.4)	3,413.1 (3,012.3 to 3,811.9)	151.2 (132.7 to 169.5)	2,434.2 (2,184.7 to 2,691.5)	131.6 (114.0 to 148.3)	2,063.4 (1,811.9 to 2,309.5)	119.3 (104.3 to 134.2)	1,794.0 (1,614.8 to 1,996.2)
East Asia	Male	224.4 (196.2 to 256.5)	4,110.1 (3,591.7 to 4,656.2)	214.2 (189.9 to 240.3)	3,837.2 (3,433.8 to 4,271.6)	130.2 (112.5 to 150.4)	2,178.7 (1,877.5 to 2,506.9)	163.8 (144.5 to 184.5)	2,810.3 (2,516.8 to 3,127.9)
East Asia	Female	187.8 (163.1 to 213.5)	3,193.2 (2,775.1 to 3,625.4)	141.0 (124.0 to 159.6)	2,164.9 (1,932.4 to 2,403.9)	118.1 (100.4 to 136.8)	1,764.2 (1,520.6 to 2,031.7)	111.1 (97.0 to 125.6)	1,605.4 (1,434.0 to 1,790.0)
China	Male	224.9 (196.3 to 257.8)	4,116.5 (3,589.8 to 4,670.2)	216.9 (191.9 to 243.5)	3,868.1 (3,463.7 to 4,314.2)	130.1 (112.2 to 150.5)	2,170.8 (1,864.4 to 2,502.3)	166.5 (146.6 to 187.5)	2,845.8 (2,550.3 to 3,174.7)
China	Female	188.2 (162.9 to 214.2)	3,202.0 (2,779.3 to 3,643.1)	141.9 (124.6 to 160.8)	2,170.2 (1,928.7 to 2,411.0)	117.7 (99.7 to 136.7)	1,757.2 (1,497.8 to 2,031.3)	112.3 (97.9 to 127.4)	1,618.3 (1,442.0 to 1,805.6)
North Korea	Male	225.5 (163.9 to 300.4)	4,363.1 (3,069.5 to 5,973.7)	247.5 (190.6 to 313.7)	4,868.0 (3,679.5 to 6,326.0)	157.5 (110.7 to 214.0)	2,841.6 (1,985.1 to 3,883.7)	175.6 (131.2 to 227.6)	3,237.5 (2,417.8 to 4,190.3)
North Korea	Female	197.2 (140.2 to 269.2)	3,426.6 (2,423.4 to 4,754.7)	187.0 (134.2 to 241.8)	3,249.8 (2,364.9 to 4,273.9)	142.3 (97.7 to 197.9)	2,239.0 (1,553.6 to 3,133.2)	137.0 (96.1 to 186.2)	2,180.9 (1,567.8 to 2,924.2)
Taiwan	Male	194.9 (166.7 to 223.0)	3,602.1 (3,171.5 to 4,046.9)	87.6 (68.4 to 108.4)	1,647.8 (1,325.1 to 2,014.0)	122.1 (100.1 to 146.6)	2,146.7 (1,833.4 to 2,491.4)	49.4 (36.6 to 64.0)	855.1 (659.6 to 1,079.0)
Taiwan	Female	157.8 (135.3 to 179.9)	2,406.7 (2,099.7 to 2,728.6)	64.6 (49.8 to 83.1)	965.2 (779.2 to 1,200.6)	113.4 (93.2 to 134.0)	1,597.4 (1,361.4 to 1,848.3)	38.4 (26.6 to 52.1)	514.6 (390.0 to 653.7)
Southeast Asia	Male	233.2 (204.3 to 262.2)	4,831.9 (4,253.5 to 5,415.1)	235.8 (200.6 to 270.3)	4,776.0 (4,092.7 to 5,533.0)	164.4 (142.6 to 186.8)	3,159.1 (2,773.7 to 3,555.0)	89.9 (149.0 to 205.1)	1,321.0 (2,852.4 to 3,908.6)
Southeast Asia	Female	217.9 (190.7 to 246.0)	6,027.5 (5,353.5 to 5,415.0)	180.5 (155.0 to 204.6)	3,166.3 (2,721.4 to 3,622.2)	172.2 (148.4 to 195.0)	2,952.2 (2,561.9 to 3,337.2)	144.0 (121.3 to 165.9)	2,339.4 (1,981.2 to 2,669.4)
Cambodia	Male	273.9 (217.9 to 335.4)	5,063.1 (4,878.0 to 7,324.3)	254.5 (207.5 to 310.7)	5,065.1 (4,103.1 to 6,253.0)	146.1 (111.6 to 183.0)	2,977.3 (2,334.6 to 3,698.8)	146.9 (115.2 to 181.0)	2,713.9 (2,155.5 to 3,362.5)
Cambodia	Female	264.9 (218.1 to 318.3)	5,060.8 (4,162.0 to 6,079.5)	177.4 (133.1 to 220.9)	3,017.4 (2,290.2 to 3,783.6)	136.5 (105.9 to 170.8)	2,306.3 (1,815.4 to 2,835.5)	89.9 (65.5 to 117.1)	975.8 to 1,680.7
Indonesia	Male	252.9 (217.3 to 285.9)	5,193.0 (4,450.4 to 5,870.4)	281.9 (212.2 to 347.5)	5,759.2 (4,334.4 to 7,218.5)	204.7 (174.3 to 234.0)	3,825.4 (3,256.1 to 4,341.0)	235.1 (174.3 to 289.8)	4,457.2 (3,327.8 to 5,554.8)
Indonesia	Female	271.1 (228.5 to 315.4)	5,149.7 (4,386.2 to 5,919.1)	250.4 (194.4 to 297.0)	4,547.0 (3,536.7 to 5,515.6)	241.4 (185.2 to 282.4)	4,254.8 (3,511.3 to 4,923.0)	223.0 (156.0 to 268.0)	3,774.7 (2,893.6 to 4,564.7)
Laos	Male	351.3 (270.8 to 465.3)	7,875.1 (5,846.0 to 10,480.4)	276.6 (227.2 to 336.7)	5,753.2 (4,588.0 to 7,231.5)	244.2 (188.6 to 319.5)	5,058.4 (3,814.3 to 6,748.7)	204.6 (166.5 to 249.4)	3,996.0 (3,212.0 to 4,979.9)
Laos	Female	408.9 (294.4 to 532.3)	8,202.2 (5,820.0 to 10,828.4)	242.5 (184.4 to 311.2)	4,404.8 (3,343.6 to 5,711.7)	310.0 (224.7 to 407.2)	5,676.9 (4,014.4 to 7,486.4)	181.7 (137.4 to 236.3)	3,002.2 (2,282.0 to 3,907.9)
Malaysia	Male	256.6 (224.7 to 287.5)	5,184.8 (4,660.9 to 5,725.9)	224.6 (183.2 to 269.3)	4,654.7 (3,817.5 to 5,562.2)	185.9 (161.0 to 211.8)	3,603.9 (3,193.3 to 4,026.3)	180.5 (146.3 to 219.1)	3,646.2 (2,997.1 to 4,391.9)
Malaysia	Female	198.8 (198.8 to 256.2)	4,057.6 (3,629.5 to 4,468.5)	147.0 (122.9 to 173.4)	2,584.4 (2,190.8 to 2,985.9)	184.6 (159.0 to 210.0)	3,099.3 (2,744.8 to 3,445.8)	121.6 (100.8 to 144.7)	2,034.7 (1,727.8 to 2,354.8)
Maldives	Male	240.4 (209.0 to 272.4)	4,649.8 (4,085.9 to 5,262.4)	155.2 (120.6 to 195.3)	2,753.8 (2,226.4 to 3,400.7)	187.1 (160.0 to 215.7)	3,365.1 (2,929.0 to 3,855.7)	123.4 (96.1 to 155.9)	2,073.7 (1,658.3 to 2,571.1)
Maldives	Female	320.4 (281.8 to 366.9)	5,872.9 (5,172.1 to 6,843.5)	107.7 (85.1 to 131.4)	1,688.4 (1,375.9 to 2,042.4)	275.1 (239.0 to 315.4)	4,254.8 (3,511.3 to 4,923.0)	91.3 (156.0 to 268.0)	1,332.8 (2,893.6 to 4,564.7)
Mauritius	Male	462.1 (412.8 to 510.9)	9,427.0 (8,450.0 to 10,310.0)	252.0 (222.4 to 281.0)	4,930.5 (4,401.2 to 5,455.4)	308.3 (271.3 to 351.7)	6,025.6 (5,315.2 to 6,726.4)	184.2 (159.4 to 209.4)	3,394.2 (2,986.3 to 3,800.5)
Mauritius	Female	292.3 (258.4 to 325.1)	5,026.4 (4,519.5 to 5,529.0)	176.1 (155.1 to 199.1)	2,841.8 (2,529.4 to 3,183.3)	219.4 (190.1 to 248.3)	3,497.5 (3,095.8 to 3,890.7)	136.6 (116.4 to 156.4)	1,996.8 (1,724.9 to 2,261.8)
Myanmar	Male	257.6 (172.8 to 369.2)	5,451.8 (3,536.0 to 8,085.6)	236.8 (154.8 to 319.8)	4,813.1 (3,011.1 to 6,798.9)	186.7 (125.0 to 266.3)	3,655.8 (2,399.1 to 5,413.8)	178.2 (115.2 to 242.1)	3,407.2 (2,174.3 to 4,829.2)
Myanmar	Female	281.9 (179.7 to 405.9)	5,194.2 (3,245.2 to 7,615.3)	192.2 (124.9 to 271.5)	3,328.4 (1,264.3 to 4,762.4)	224.1 (141.9 to 325.2)	3,831.0 (2,367.5 to 5,654.9)	151.1 (98.4 to 211.2)	2,454.0 (1,599.8 to 3,506.3)
Philippines	Male	231.7 (203.1 to 259.8)	4,998.5 (4,502.9 to 5,518.5)	259.6 (224.3 to 296.7)	5,460.6 (4,710.9 to 6,222.2)	142.1 (121.0 to 163.5)	2,995.6 (2,637.2 to 3,385.1)	151.9 (128.0 to 177.2)	3,057.4 (2,600.2 to 3,526.5)
Philippines	Female	149.1 (131.2 to 168.4)	2,761.8 (2,469.2 to 3,069.7)	169.8 (144.3 to 198.1)	3,096.5 (2,682.6 to 3,617.2)	100.5 (84.6 to 116.8)	1,697.4 (1,485.4 to 2,942.5)	104.4 (86.9 to 126.4)	1,730.9 (1,462.5 to 2,056.2)
Sri Lanka	Male	230.0 (202.8 to 259.7)	4,699.6 (4,192.0 to 5,194.0)	184.2 (138.6 to 234.9)	3,564.5 (2,649.0 to 4,583.8)	156.9 (132.5 to 180.9)	2,928.9 (2,549.8 to 3,311.1)	135.0 (100.4 to 174.2)	2,492.6 (1,847.1 to 2,941.1)
Sri Lanka	Female	144.2 (122.4 to 163.6)	2,515.1 (2,240.5 to 2,774.1)	119.7 (86.9 to 157.1)	1,910.7 (1,440.1 to 2,496.7)	106.1 (88.0 to 123.3)	1,643.4 (1,415.0 to 1,848.9)	91.1 (65.7 to 120.7)	1,351.7 (1,002.3 to 1,766.7)
Seychelles	Male	305.3 (275.6 to 459.8)	5,281.7 (8,163.7 to 10,056.5)	211.9 (213.1 to 292.0)	3,382.2 (4,296.9 to 5,927.8)	266.9 (310.7 to 385.9)	4,342.2 (6,469.4 to 7,995.0)	177.0 (175.7 to 244.4)	2,611.7 (3,371.4 to 4,728.1)
Seychelles	Female	278.8 to 328.6 (4,859.4 to 5,641.8)	5,281.7 (8,163.7 to 10,056.5)	186.5 to 238.0 (2,952.5 to 3,858.2)	3,382.2 (2,384.2 to 4,704.4)	238.4 to 291.8 (2,384.2 to 4,704.4)	3,955.8 to 4,704.4 (3,955.8 to 4,704.4)	177.0 (152.5 to 203.7)	2,272.1 to 2,990.4 (2,272.1 to 2,990.4)
Thailand	Male	131.3 (119.9 to 170.1)	5,221.6 (2,201.0 to 2,907.5						

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Vietnam	Male	217.3 (174.3 to 267.5)	4,224.5 (3,376.3 to 5,205.4)	231.4 (172.6 to 287.9)	4,164.7 (3,022.0 to 5,407.2)	144.0 (113.7 to 178.8)	2,622.7 (2,080.0 to 3,233.3)	183.1 (137.7 to 225.0)	3,147.8 (2,284.3 to 4,052.5)
	Female	178.8 (143.5 to 227.7)	3,020.6 (2,423.7 to 3,849.6)	146.2 (99.0 to 187.0)	2,143.4 (1,442.5 to 2,806.0)	127.5 (100.5 to 164.9)	1,930.2 (1,536.0 to 2,494.5)	116.4 (79.6 to 150.7)	1,557.8 (1,051.9 to 2,026.4)
Oceania	Male	316.6 (254.2 to 385.3)	7,163.6 (5,613.5 to 9,087.0)	326.3 (255.5 to 415.7)	7,492.1 (5,695.1 to 10,099.3)	171.9 (139.9 to 207.0)	3,468.5 (2,783.8 to 4,265.0)	195.1 (153.5 to 245.0)	4,147.8 (3,183.2 to 5,475.1)
	Female	305.4 (243.0 to 375.3)	6,239.0 (4,811.2 to 7,995.1)	314.7 (244.3 to 410.3)	6,510.5 (4,800.7 to 8,974.8)	193.9 (156.0 to 234.9)	3,481.7 (2,754.8 to 4,337.6)	198.4 (154.7 to 254.0)	3,652.9 (2,757.6 to 4,875.3)
American Samoa	Male	333.1 (288.4 to 377.4)	7,329.4 (6,255.0 to 8,427.1)	260.3 (211.3 to 309.8)	5,469.4 (4,336.5 to 6,725.0)	269.1 (231.4 to 308.8)	5,681.3 (4,821.0 to 6,582.1)	212.2 (172.9 to 256.0)	4,275.9 (3,387.4 to 5,290.2)
	Female	192.2 (164.3 to 220.7)	3,350.1 (2,844.7 to 3,893.3)	210.3 (168.3 to 259.8)	3,739.6 (2,956.6 to 4,690.9)	158.6 (133.2 to 184.5)	2,569.6 (2,172.5 to 2,994.7)	170.4 (133.1 to 211.5)	2,793.1 (2,187.2 to 3,458.8)
Federated States of Micronesia	Male	359.4 (237.5 to 481.9)	7,868.5 (5,010.7 to 11,160.6)	342.1 (250.0 to 492.5)	7,597.9 (5,206.7 to 11,800.0)	199.4 (134.9 to 264.2)	3,902.3 (2,534.0 to 5,499.3)	217.7 (157.2 to 308.5)	4,474.4 (3,094.1 to 6,782.6)
	Female	268.7 (178.6 to 377.4)	5,018.0 (3,188.8 to 7,369.7)	269.2 (179.0 to 427.2)	4,929.9 (3,176.7 to 8,062.6)	144.5 (94.9 to 201.9)	2,266.2 (1,456.7 to 3,248.8)	172.7 (115.4 to 270.9)	2,722.1 (1,767.1 to 4,313.5)
Fiji	Male	405.3 (334.3 to 495.3)	9,682.9 (7,741.0 to 12,216.9)	398.6 (324.1 to 480.6)	8,901.7 (7,159.4 to 11,032.6)	243.3 (194.9 to 303.7)	5,482.8 (4,336.6 to 6,989.4)	253.3 (203.4 to 306.6)	5,325.6 (4,169.9 to 6,635.8)
	Female	319.6 (254.8 to 396.4)	6,337.5 (4,994.9 to 7,974.9)	309.6 (248.9 to 378.6)	5,921.9 (4,675.5 to 7,342.7)	248.8 (196.7 to 309.1)	4,464.5 (3,525.0 to 5,592.6)	241.2 (191.0 to 298.8)	4,176.4 (3,281.3 to 5,199.4)
Guam	Male	301.7 (263.9 to 344.7)	5,832.5 (5,029.3 to 6,729.5)	315.4 (258.3 to 376.8)	6,376.2 (5,157.8 to 7,805.0)	205.6 (172.4 to 242.0)	3,709.6 (3,115.0 to 4,364.8)	230.9 (188.6 to 280.5)	4,403.9 (3,547.6 to 5,429.5)
	Female	197.2 (165.9 to 227.7)	3,379.4 (2,841.2 to 3,876.4)	193.1 (153.8 to 234.9)	3,342.3 (2,646.0 to 4,123.1)	120.8 (94.6 to 146.3)	1,884.2 (1,508.4 to 2,264.8)	119.9 (92.1 to 150.9)	1,940.2 (1,518.6 to 2,396.5)
Kiribati	Male	397.7 (330.8 to 466.0)	9,492.8 (7,832.5 to 11,235.4)	416.9 (337.0 to 505.6)	10,148.1 (7,970.3 to 12,660.9)	240.0 (194.4 to 289.9)	5,366.1 (4,355.8 to 6,489.0)	258.8 (209.5 to 318.3)	5,905.0 (4,652.9 to 7,423.2)
	Female	214.9 (172.8 to 261.3)	4,428.1 (3,559.3 to 5,453.3)	203.2 (158.7 to 259.0)	4,035.8 (3,125.5 to 5,175.6)	101.5 (78.3 to 127.7)	1,863.3 (1,445.9 to 2,334.9)	95.3 (70.3 to 124.7)	1,684.4 (1,276.6 to 2,193.8)
Marshall Islands	Male	353.8 (295.6 to 411.7)	7,795.9 (6,456.6 to 9,138.3)	367.1 (293.9 to 449.3)	8,278.7 (6,507.9 to 10,363.9)	204.3 (164.1 to 248.3)	4,144.1 (3,358.2 to 5,068.7)	231.9 (183.6 to 285.2)	4,832.6 (3,801.4 to 6,068.4)
	Female	259.7 (211.9 to 307.4)	4,846.3 (3,991.0 to 5,754.4)	311.5 (232.7 to 404.3)	5,886.0 (4,328.4 to 7,811.2)	164.9 (132.2 to 202.0)	2,715.6 (2,174.4 to 3,309.9)	194.4 (142.7 to 258.7)	3,221.6 (2,371.1 to 4,285.3)
Northern Mariana Islands	Male	189.9 (155.2 to 225.6)	3,719.7 (3,061.2 to 4,426.7)	177.5 (152.5 to 209.8)	3,474.4 (2,962.5 to 4,080.8)	127.9 (103.1 to 157.4)	2,319.6 (1,868.9 to 2,822.6)	129.9 (109.3 to 155.3)	2,389.0 (2,028.8 to 2,840.8)
	Female	192.8 (158.3 to 229.0)	3,377.8 (2,761.3 to 4,132.8)	132.5 (110.1 to 158.0)	2,222.0 (1,855.6 to 2,658.7)	117.4 (92.2 to 144.2)	1,864.5 (1,484.5 to 2,303.3)	82.8 (66.4 to 102.0)	1,297.8 (1,051.8 to 1,567.0)
Papua New Guinea	Male	281.3 (187.2 to 379.4)	6,471.6 (4,254.5 to 9,111.8)	304.2 (201.6 to 430.6)	7,202.6 (4,611.2 to 10,913.5)	135.7 (89.2 to 184.1)	2,712.9 (1,748.8 to 3,824.4)	169.7 (110.5 to 240.3)	3,733.1 (2,358.6 to 5,638.1)
	Female	311.9 (219.2 to 418.7)	6,498.6 (4,412.0 to 9,133.3)	325.7 (225.2 to 469.9)	6,905.2 (4,487.3 to 10,485.6)	186.5 (130.2 to 246.7)	3,391.0 (2,300.6 to 4,611.6)	193.2 (131.0 to 270.7)	3,641.2 (2,391.3 to 5,403.7)
Samoa	Male	301.3 (240.5 to 378.3)	6,631.5 (5,053.5 to 8,601.3)	240.9 (190.6 to 302.2)	4,932.3 (3,834.4 to 6,310.3)	181.8 (143.6 to 230.0)	2,879.0 to 4,859.7 (2,879.0 to 4,859.7)	167.4 (131.2 to 212.4)	3,357.2 (2,620.6 to 4,333.2)
	Female	211.8 (160.9 to 276.7)	3,891.9 (2,939.4 to 5,205.0)	238.2 (180.4 to 305.3)	4,266.2 (3,203.7 to 5,515.8)	133.3 (97.0 to 173.6)	2,185.9 (1,628.2 to 2,862.5)	151.4 (111.6 to 197.5)	2,458.5 (1,813.2 to 2,224.7)
Solomon Islands	Male	367.6 (258.5 to 501.1)	8,411.3 (5,610.2 to 12,051.8)	375.0 (264.0 to 525.3)	8,637.2 (5,704.4 to 12,978.3)	180.2 (127.4 to 244.1)	3,763.6 (2,533.3 to 5,315.8)	209.4 (145.8 to 295.2)	4,453.2 (2,974.7 to 6,510.2)
	Female	396.7 (271.6 to 546.8)	8,112.5 (5,342.1 to 11,649.2)	390.7 (247.5 to 568.0)	7,940.3 (4,838.7 to 12,135.5)	246.2 (165.9 to 342.7)	4,510.5 (2,992.1 to 6,362.8)	167.4 (152.7 to 353.8)	4,473.2 (2,690.1 to 6,667.4)
Tonga	Male	188.5 (148.6 to 232.8)	3,920.7 (3,051.3 to 4,863.2)	199.9 (158.6 to 250.8)	4,251.2 (3,339.4 to 5,384.6)	125.6 (97.0 to 158.9)	2,462.3 (1,895.9 to 3,106.3)	141.7 (110.0 to 177.0)	2,856.1 (2,210.3 to 3,619.9)
	Female	154.2 (121.2 to 191.1)	2,754.8 (2,177.7 to 3,434.7)	117.3 (89.2 to 151.7)	2,008.4 (1,555.3 to 2,584.2)	107.9 (82.0 to 137.0)	1,771.7 (1,394.4 to 2,214.1)	82.9 (62.2 to 108.7)	1,320.5 (1,011.3 to 1,705.4)
Vanuatu	Male	451.7 (321.3 to 612.7)	10,685.2 (7,228.7 to 15,146.7)	435.5 (324.5 to 584.3)	10,078.3 (7,051.6 to 14,366.6)	338.3 (240.5 to 457.0)	7,756.7 (5,253.8 to 11,082.4)	337.5 (251.7 to 456.4)	7,591.5 (5,404.9 to 10,917.6)
	Female	425.2 (293.3 to 605.0)	8,630.2 (5,755.0 to 12,647.7)	404.0 (285.2 to 581.8)	8,058.6 (5,477.8 to 12,188.9)	365.7 (249.5 to 517.4)	6,805.2 (4,585.8 to 9,848.5)	350.3 (244.6 to 503.6)	6,488.6 (4,448.1 to 9,658.9)
North Africa and Middle East	Male	282.8 (250.2 to 318.0)	5,828.3 (5,229.7 to 6,484.9)	228.4 (200.3 to 255.4)	4,591.9 (4,076.2 to 5,104.3)	185.3 (162.1 to 210.1)	3,610.9 (3,180.0 to 4,057.0)	151.4 (132.7 to 171.0)	2,940.2 (2,586.8 to 3,285.3)
	Female	271.4 (240.5 to 301.6)	5,132.8 (4,636.0 to 5,634.2)	200.0 (177.3 to 224.0)	3,723.5 (3,320.7 to 4,148.8)	213.7 (188.1 to 240.2)	3,767.8 (3,380.1 to 4,152.3)	148.6 (130.8 to 168.0)	2,596.8 (2,309.5 to 2,908.5)
Afghanistan	Male	493.8 (353.4 to 666.6)	10,774.4 (7,542.4 to 14,856.1)	505.6 (362.2 to 645.2)	11,007.3 (7,656.0 to 14,543.4)	311.0 (218.2 to 425.5)	6,454.1 (4,462.7 to 9,024.5)	324.9 (230.6 to 423.7)	6,717.9 (4,630.8 to 9,840.7)
	Female	793.7 (577.7 to 997.5)	17,124.7 (12,080.7 to 22,358.3)	753.8 (560.8 to 960.9)	16,165.1 (11,506.3 to 21,597.4)	643.6 (473.3 to 807.5)	12,988.7 (9,159.6 to 16,791.5)	571.5 (423.5 to 727.3)	11,315.9 (8,190.8 to 14,904.3)
Algeria	Male	225.2 (188.7 to 262.5)	4,301.7 (3,646.8 to 5,042.3)	158.2 (128.3 to 187.9)	2,785.7 (2,301.9 to 3,311.6)	149.6 (123.4 to 177.6)	2,546.1 (2,127.1 to 2,995.8)	97.7 (75.0 to 120.3)	1,454.6 (1,164.2 to 1,761.2)
	Female	226.1 (191.6 to 266.3)	4,210.6 (3,615.8 to 4,940.7)	169.3 (142.7 to 205.0)	2,895.7 (2,477.6 to 3,472.5)	172.2 (144.0 to 204.8)	2,850.1 (2,399.8 to 3,386.4)	117.7 (95.3 to 143.6)	1,720.7 (1,438.1 to 2,062.4)
Bahrain	Male	237.4 (186.1 to 292.8)	4,949.1 (3,977.9 to 5,948.0)	125.2 (94.6 to 157.0)	2,354.7 (1,797.1 to 2,928.8)	160.3 (122.2 to 203.7)	3,162.8 (2,480.2 to 3,886.8)	88.6 (65.7 to 113.5)	1,590.8 (1,202.1 to 1,994.1)
	Female	268.5 (224.0 to 311.2)	4,926.5 (4,157.1 to 5,734.1)	108.7 (87.6 to 131.3)	1,864.8 (1,507.5 to 2,259.4)	212.5 (173.7 to 247.9)	3,601.9 (3,021.5 to 4,194.4)	80.7 (63.1 to 99.2)	1,260.4 (1,005.0 to 1,528.3)
Egypt	Male	322.0 (275.7 to 366.9)	6,833.1 (6,047.8 to 7,660.4)	321.1 (282.7 to 361.3)	6,713.7 (6,023.1 to 7,371.3)	182.9 (153.5 to 219.5)	3,723.3 (3,205.7 to 4,332.4)	214.2 (182.0 to 250.8)	4,488.0 (3,953.6 to 5,024.7)
	Female	283.4 (248.4 to 319.5)	5,395.3 (4,866.1 to 5,912.1)	245.0 (215.9 to 274.6)	4,593.6 (4,167.8 to 5,052.6)	196.8 (168.4 to 230.1)	3,473.3 (3,045.9 to 3,932.9)	182.1 (156.9 to 208.5)	3,349.3 (2,997.1 to 3,732.5)
Iran	Male	286.6 (237.9 to 344.8)	5,624.1 (4,589.4 to 6,863.8)	224.9 (172.2 to 277.9)	4,326.6 (3,363.2 to 5,479.2)	179.1 (139.1 to 211.5)	2,969.3 (2,606.5 to 3,964.1)	86.5 (83.6 to 143.9)	1,365.1 (1,588.5 to 2,731.6)
	Female	241.7 (198.5 to 284.4)	4,287.1 (3,511.3 to 5,103.1)	166.0 (124.4 to 212.4)	2,763.0 (2,064.0 to 3,550.0)	179.1 (143.9 to 212.0)	2,850.1 (2,410.5 to 3,506.0)	117.7 (62.0 to 113.9)	1,720.7 (985.6 to 1,789.4)
Iraq	Male	431.8 (338.2 to 569.1)	8,710.0 (6,619.7 to 11,522.0)	447.4 (311.6 to 563.8)	8,935.7 (6,194.4 to 11,725.1)	358.0 (279.2 to 471.3)	6,863.3 (5,241.4 to 9,041.1)	377.0 (265.0 to 475.1)	1,786.3 (1,475.1 to 2,928.3)
	Female	463.0 (371.3 to 554.5)	8,659.2 (6,919.7 to 10,577.5)	385.2 (294.0 to 503.5)	7,0				

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Lebanon	Male	285.3 (210.0 to 369.5)	5,873.9 (4,471.8 to 7,595.3)	145.8 (94.3 to 202.2)	2,689.5 (1,763.2 to 3,666.8)	196.3 (143.1 to 257.6)	3,887.7 (2,920.4 to 5,063.8)	105.3 (67.1 to 145.8)	1,893.2 (1,237.6 to 2,613.6)
	Female	242.4 (184.6 to 311.5)	4,285.6 (3,261.9 to 5,545.9)	138.7 (98.6 to 177.5)	2,278.6 (1,595.4 to 2,981.8)	174.3 (131.0 to 224.2)	2,796.3 (2,126.6 to 3,615.3)	97.7 (68.5 to 126.5)	1,449.0 (1,011.7 to 1,876.1)
Libya	Male	181.7 (143.1 to 222.5)	3,455.7 (2,760.1 to 4,197.0)	222.9 (178.2 to 276.4)	4,321.9 (3,491.4 to 5,303.7)	134.8 (104.1 to 167.9)	2,437.1 (1,908.4 to 2,990.8)	191.3 (150.1 to 238.7)	3,620.1 (2,909.6 to 4,455.6)
	Female	200.8 (164.2 to 242.2)	3,629.0 (3,023.8 to 4,374.4)	190.6 (155.3 to 231.3)	3,425.9 (2,810.7 to 4,119.3)	168.2 (133.4 to 204.6)	2,846.4 (2,323.7 to 3,415.6)	158.1 (128.3 to 192.5)	2,708.7 (2,222.3 to 3,263.6)
Morocco	Male	223.5 (186.8 to 265.3)	4,473.9 (3,728.9 to 5,337.5)	167.3 (116.1 to 237.0)	3,268.9 (2,267.9 to 4,606.3)	171.1 (140.1 to 203.8)	3,271.3 (2,702.3 to 3,938.3)	129.9 (91.8 to 188.4)	2,424.3 (1,684.3 to 3,422.2)
	Female	246.8 (206.1 to 295.2)	4,616.3 (3,834.9 to 5,563.6)	188.2 (132.0 to 253.9)	3,396.0 (2,368.6 to 4,586.4)	220.5 (181.8 to 263.8)	3,924.6 (2,471.7 to 4,736.5)	166.0 (116.4 to 224.4)	2,843.7 (1,964.6 to 3,845.7)
Palestine	Male	281.6 (212.0 to 377.0)	5,595.1 (4,085.6 to 7,630.1)	300.5 (224.2 to 381.0)	5,936.5 (4,341.6 to 7,656.2)	168.6 (124.8 to 226.5)	3,047.6 (2,201.6 to 4,201.9)	190.6 (139.0 to 248.2)	3,396.4 (2,463.2 to 4,450.5)
	Female	243.4 (174.9 to 339.4)	4,430.7 (3,137.8 to 6,253.2)	184.2 (141.2 to 237.8)	3,210.5 (2,471.9 to 4,144.1)	155.4 (108.4 to 219.2)	2,553.2 (1,780.4 to 3,655.8)	106.3 (78.5 to 141.9)	1,675.8 (1,256.5 to 2,195.7)
Oman	Male	205.9 (143.2 to 278.4)	4,273.4 (2,968.8 to 5,870.4)	197.6 (153.4 to 239.9)	3,959.7 (3,159.0 to 4,715.2)	138.9 (94.1 to 193.3)	2,789.6 (1,921.7 to 3,889.0)	162.1 (125.7 to 199.2)	3,230.7 (2,565.5 to 3,892.8)
	Female	197.4 (137.6 to 279.7)	3,806.2 (2,709.7 to 5,375.8)	159.6 (128.8 to 191.4)	2,800.0 (2,290.8 to 3,326.7)	153.2 (105.9 to 220.0)	2,777.6 (1,957.8 to 3,976.7)	130.2 (104.3 to 156.2)	2,161.4 (1,753.1 to 2,559.6)
Qatar	Male	195.5 (161.4 to 231.7)	3,538.6 (2,978.4 to 4,105.3)	122.3 (89.4 to 165.2)	2,167.1 (1,629.2 to 2,847.8)	152.8 (124.1 to 184.1)	2,639.7 (2,189.3 to 3,116.4)	98.0 (71.3 to 135.1)	1,663.1 (1,253.0 to 2,213.0)
	Female	211.2 (167.1 to 257.1)	3,435.1 (2,765.6 to 4,135.0)	96.1 (70.6 to 124.7)	1,437.8 (1,098.8 to 1,836.3)	142.4 (108.1 to 175.7)	2,121.6 (1,666.8 to 2,561.0)	63.6 (45.0 to 83.9)	859.8 (636.7 to 1,119.1)
Saudi Arabia	Male	181.8 (150.5 to 213.5)	3,386.6 (2,835.1 to 3,961.6)	169.1 (144.9 to 196.3)	3,030.1 (2,610.0 to 3,499.3)	134.0 (109.9 to 157.9)	2,321.9 (1,941.6 to 2,731.2)	129.0 (109.3 to 150.3)	2,158.8 (1,846.6 to 2,496.2)
	Female	139.5 (114.0 to 166.8)	2,494.9 (2,065.3 to 2,971.8)	102.0 (86.2 to 119.4)	1,663.9 (1,412.9 to 1,924.0)	93.1 (76.4 to 111.9)	1,527.6 (1,261.5 to 1,812.4)	65.9 (54.6 to 77.9)	972.6 (822.2 to 1,130.0)
Sudan	Male	352.3 (272.9 to 442.2)	7,586.7 (5,705.4 to 9,733.9)	306.7 (216.0 to 424.7)	6,409.6 (4,371.9 to 9,219.0)	250.8 (190.7 to 322.0)	5,156.1 (3,898.5 to 6,697.4)	223.1 (155.6 to 310.4)	4,483.1 (3,035.5 to 6,439.0)
	Female	399.6 (309.5 to 543.7)	7,884.0 (6,009.3 to 10,846.2)	315.0 (202.7 to 436.0)	5,906.2 (3,699.2 to 8,322.8)	337.4 (261.7 to 463.5)	6,314.7 (4,838.9 to 8,741.2)	257.0 (165.2 to 355.0)	4,551.6 (2,844.1 to 6,412.3)
Syria	Male	316.1 (260.1 to 389.2)	6,706.9 (5,442.6 to 8,380.4)	255.7 (195.1 to 319.0)	5,007.7 (3,950.4 to 6,147.3)	209.9 (166.7 to 263.1)	4,211.4 (3,384.9 to 5,275.2)	176.9 (130.6 to 225.9)	3,304.7 (2,522.0 to 4,135.1)
	Female	297.7 (235.4 to 383.3)	5,629.7 (4,472.6 to 7,309.7)	189.4 (150.3 to 225.6)	3,241.6 (2,618.2 to 3,883.7)	240.7 (188.4 to 313.1)	4,224.9 (3,341.6 to 5,506.2)	144.6 (113.0 to 172.5)	2,284.4 (1,825.9 to 2,745.5)
Tunisia	Male	163.7 (139.9 to 193.5)	3,112.7 (2,637.4 to 3,639.2)	131.4 (95.4 to 171.6)	2,561.0 (1,914.7 to 3,281.6)	96.4 (77.2 to 118.4)	1,720.4 (1,405.6 to 2,067.0)	80.5 (56.5 to 106.3)	1,478.7 (1,074.4 to 1,915.5)
	Female	152.4 (129.2 to 177.5)	2,619.6 (2,266.0 to 2,979.0)	94.3 (67.9 to 122.8)	1,601.1 (1,191.2 to 2,064.9)	114.7 (94.9 to 135.9)	1,845.6 (1,580.2 to 2,130.6)	65.0 (45.6 to 86.5)	1,037.4 (765.0 to 1,359.9)
Turkey	Male	257.1 (216.9 to 298.1)	5,484.2 (4,677.7 to 6,353.4)	188.4 (118.4 to 158.9)	2,687.5 (2,390.8 to 2,994.8)	173.8 (142.8 to 206.5)	3,514.9 (2,935.5 to 4,164.2)	79.0 (81.8 to 114.7)	1,804.1 (1,561.1 to 2,061.8)
	Female	204.7 (175.7 to 233.3)	3,162.9 (3,186.2 to 4,113.6)	98.1 (84.5 to 111.9)	1,616.9 (1,423.0 to 1,801.5)	174.1 (148.6 to 200.2)	2,891.4 (2,506.6 to 3,281.9)	102.1 (67.0 to 92.2)	2,158.8 (1,045.7 to 1,351.4)
United Arab Emirates	Male	259.2 (188.5 to 338.6)	5,433.6 (3,950.9 to 7,203.9)	203.1 (156.3 to 267.2)	3,979.5 (2,971.7 to 5,302.0)	204.3 (148.1 to 267.9)	4,135.0 (2,990.1 to 5,473.0)	133.0 (101.9 to 176.2)	2,440.8 (1,814.0 to 3,269.1)
	Female	264.6 (193.7 to 343.6)	5,101.9 (3,663.2 to 6,805.0)	161.5 (124.7 to 213.8)	2,828.8 (2,147.8 to 3,784.4)	212.0 (155.8 to 273.3)	3,856.0 (2,764.3 to 5,103.1)	108.0 (81.8 to 143.1)	1,696.7 (1,289.9 to 2,223.1)
Yemen	Male	315.9 (207.8 to 450.4)	6,791.7 (4,226.3 to 9,954.5)	280.5 (180.3 to 436.3)	5,804.5 (3,589.6 to 9,508.5)	163.2 (106.6 to 242.6)	3,243.7 (2,009.1 to 4,810.4)	80.5 (98.8 to 241.8)	2,996.4 (1,837.8 to 4,809.1)
	Female	426.3 (271.8 to 629.8)	8,421.9 (5,157.5 to 12,684.6)	365.0 (224.0 to 555.1)	6,967.0 (4,174.8 to 11,255.2)	308.7 (196.9 to 454.2)	5,592.0 (3,408.4 to 8,441.8)	250.0 (157.8 to 378.9)	4,396.7 (2,660.9 to 6,850.6)
South Asia	Male	216.3 (188.3 to 244.5)	4,635.1 (4,066.6 to 5,232.4)	235.0 (207.7 to 262.6)	4,952.5 (4,407.2 to 5,499.0)	114.2 (98.4 to 131.4)	2,336.8 (2,019.9 to 2,665.8)	142.8 (124.6 to 161.4)	2,838.2 (2,515.0 to 3,187.8)
	Female	221.1 (196.5 to 248.2)	4,145.7 (3,714.7 to 4,608.7)	188.7 (164.3 to 214.2)	3,343.1 (2,976.5 to 3,729.2)	144.8 (127.5 to 164.2)	2,500.9 (2,234.7 to 2,803.3)	129.9 (112.5 to 147.8)	2,109.2 (1,875.1 to 2,369.6)
Bangladesh	Male	130.4 (107.4 to 156.1)	2,846.3 (2,380.3 to 3,368.2)	180.8 (147.4 to 220.9)	3,989.4 (3,228.9 to 4,868.0)	62.5 (49.2 to 77.9)	1,290.9 (1,043.3 to 1,566.3)	90.0 (72.5 to 109.7)	1,873.9 (1,493.5 to 2,296.3)
	Female	172.0 (140.6 to 205.8)	3,464.9 (2,842.7 to 4,077.9)	192.4 (148.6 to 241.6)	3,477.5 (2,722.3 to 4,373.7)	96.9 (78.1 to 119.3)	1,787.5 (1,454.3 to 2,185.5)	120.0 (91.8 to 152.5)	1,958.8 (1,498.0 to 2,507.3)
Bhutan	Male	183.6 (134.1 to 239.0)	3,707.4 (2,704.2 to 4,910.2)	163.5 (118.8 to 213.9)	3,158.6 (2,293.7 to 4,159.1)	120.5 (84.9 to 157.5)	2,289.3 (1,637.6 to 3,035.0)	108.6 (78.4 to 144.1)	1,973.2 (1,421.0 to 2,593.6)
	Female	230.9 (173.8 to 306.7)	4,220.9 (3,189.4 to 5,656.9)	153.5 (113.1 to 201.0)	2,507.3 (1,840.4 to 3,311.5)	171.4 (128.2 to 231.0)	2,801.1 (2,106.1 to 3,746.7)	106.4 (78.1 to 139.9)	1,522.0 (1,124.6 to 2,007.0)
India	Male	217.3 (188.9 to 246.3)	4,720.7 (4,131.9 to 5,346.8)	230.7 (203.2 to 258.2)	4,879.9 (4,351.2 to 5,427.7)	113.0 (96.4 to 129.7)	2,351.7 (2,021.0 to 2,685.4)	138.6 (120.5 to 156.8)	2,782.6 (2,448.9 to 3,132.5)
	Female	217.2 (193.1 to 244.6)	4,096.3 (3,672.9 to 4,587.9)	180.2 (157.6 to 203.1)	3,199.5 (2,861.4 to 3,576.5)	138.8 (122.2 to 157.7)	2,413.5 (2,153.1 to 2,706.9)	106.4 (107.3 to 139.4)	2,011.2 (1,784.9 to 2,260.8)
Nepal	Male	203.5 (152.8 to 258.3)	4,350.3 (3,230.3 to 5,617.1)	209.2 (157.5 to 270.8)	4,244.3 (3,053.3 to 5,608.3)	137.6 (103.1 to 176.5)	2,854.1 (2,100.1 to 3,704.1)	166.2 (124.9 to 215.9)	3,222.1 (2,325.1 to 4,265.0)
	Female	190.8 (141.9 to 251.1)	3,607.9 (2,692.7 to 4,788.0)	172.2 (121.9 to 227.8)	3,017.1 (2,123.3 to 4,006.6)	128.7 (94.7 to 170.0)	2,268.5 (2,021.0 to 2,685.4)	132.8 (120.5 to 187.4)	2,175.7 (1,543.3 to 2,916.5)
Pakistan	Male	270.2 (217.0 to 326.0)	5,404.5 (4,357.1 to 6,534.4)	329.5 (272.1 to 396.8)	6,622.3 (5,465.8 to 8,054.2)	155.4 (122.5 to 192.6)	2,956.0 (2,323.8 to 3,631.4)	225.5 (182.7 to 274.4)	4,160.2 (3,399.6 to 5,081.6)
	Female	294.9 (239.6 to 363.7)	5,246.1 (4,249.2 to 6,474.8)	272.9 (209.0 to 345.8)	4,668.8 (3,594.1 to 5,916.6)	235.0 (188.9 to 289.7)	3,914.4 (3,170.3 to 4,806.2)	207.8 (157.6 to 263.9)	3,208.8 (2,449.5 to 4,045.6)
Sub-Saharan Africa	Male	195.4 (169.5 to 220.0)	4,100.0 (3,593.2 to 4,691.2)	193.9 (165.2 to 225.6)	4,035.5 (3,421.2 to 4,688.9)	133.6 (115.9 to 152.0)	2,615.6 (2,287.0 to 2,990.2)	144.0 (122.2 to 168.2)	2,861.7 (2,548.5 to 3,498.7)
	Female	254.4 (223.9 to 288.9)	4,757.0 (4,208.1 to 5,401.5)	210.3 (180.6 to 246.8)	3,862.7 (3,327.6 to 4,504.0)	188.6 (165.1 to 214.0)	3,252.7 (2,884.9 to 3,707.4)	163.5 (140.5 to 192.0)	2,833.3 (2,430.7 to 3,315.5)
Southern Sub-Saharan Africa	Male	217.7 (189.9 to 247.8)	4,284.2 (3,726.2 to 4,869.1)	242.2 (209.4 to 275.3)	4,855.0 (4,205.8 to 5,599.8)	164.2 (142.6 to 186.7)	3,074.5 (2,677.6 to 3,500.3)	187.6 (164.2 to 214.7)	3,619.5 (3,167.9 to 4,156.1)
	Female	276.3 (245.3 to 309.6)	4,709.9 (4,238.9 to 5,280.7)	218.0 (186.9 to 252.1)	3,723.6 (3,190.2 to 4,350.8)	228.8 (202.4 to 255.5)	3,665.6 (3,272.0 to 4,111.1)	182.8<br	

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Namibia	Male	304.8 (232.3 to 374.0)	6,079.6 (4,568.0 to 7,470.3)	249.7 (144.4 to 389.5)	4,787.2 (2,664.1 to 8,086.7)	239.8 (182.2 to 294.5)	4,566.1 (3,442.6 to 5,621.4)	199.3 (116.7 to 308.6)	3,663.1 (2,058.0 to 6,160.0)
	Female	264.4 (200.2 to 334.2)	4,715.1 (3,604.8 to 5,937.5)	170.6 (110.3 to 310.3)	2,884.3 (1,855.4 to 5,492.0)	202.0 (152.6 to 255.5)	3,450.9 (2,633.0 to 4,367.1)	129.9 (83.4 to 237.1)	2,102.6 (1,351.4 to 3,961.8)
South Africa	Male	230.9 (202.2 to 260.7)	4,532.6 (3,975.5 to 5,140.7)	243.5 (212.5 to 274.8)	4,811.3 (4,198.2 to 5,441.8)	175.3 (153.2 to 199.3)	3,288.7 (2,877.8 to 3,716.6)	190.0 (165.7 to 215.0)	3,639.6 (3,176.4 to 4,133.0)
	Female	292.2 (257.8 to 327.2)	4,976.8 (4,438.3 to 5,570.3)	217.9 (187.9 to 252.8)	3,681.7 (3,189.0 to 4,296.6)	240.8 (212.5 to 269.4)	3,844.4 (3,421.8 to 4,284.7)	181.8 (156.5 to 211.2)	2,921.1 (2,520.8 to 3,385.8)
Swaziland	Male	266.3 (176.3 to 371.6)	5,381.2 (3,439.2 to 7,855.3)	352.0 (148.2 to 601.1)	7,534.1 (2,784.8 to 14,147.6)	190.0 (127.0 to 266.3)	3,670.0 (2,377.0 to 5,347.6)	267.6 (113.5 to 450.0)	5,449.2 (2,072.1 to 10,099.0)
	Female	288.5 (179.7 to 403.1)	5,204.0 (3,185.2 to 7,555.4)	346.4 (152.9 to 646.1)	6,425.0 (2,699.9 to 13,255.8)	237.4 (149.4 to 331.7)	4,056.3 (2,478.5 to 5,828.7)	305.5 (136.8 to 563.1)	5,380.2 (2,291.6 to 10,760.3)
Zimbabwe	Male	127.6 (87.8 to 178.3)	2,595.9 (1,739.4 to 3,587.1)	194.3 (106.9 to 291.2)	4,102.9 (2,153.5 to 6,589.3)	95.1 (66.3 to 131.5)	1,782.5 (1,219.6 to 2,456.5)	147.7 (82.9 to 219.4)	2,890.0 (1,536.4 to 4,555.7)
	Female	179.7 (133.8 to 226.4)	3,127.7 (2,363.4 to 3,893.8)	174.4 (92.5 to 309.2)	3,124.6 (1,668.7 to 5,775.2)	154.9 (115.4 to 195.7)	2,509.8 (1,898.5 to 3,129.8)	152.5 (81.3 to 269.3)	2,605.2 (1,404.3 to 4,698.3)
Western Sub-Saharan Africa	Male	148.1 (118.8 to 183.7)	3,148.9 (2,557.0 to 3,936.6)	162.4 (131.3 to 202.2)	3,435.3 (2,784.1 to 4,328.8)	97.4 (79.4 to 118.6)	1,927.5 (1,586.6 to 2,364.7)	123.0 (99.4 to 155.0)	2,441.0 (1,978.3 to 3,067.4)
	Female	204.6 (164.4 to 257.4)	4,003.5 (3,245.2 to 4,994.4)	183.3 (145.3 to 243.2)	3,502.8 (2,826.8 to 4,622.6)	144.8 (118.8 to 178.9)	2,596.9 (2,142.1 to 3,218.0)	143.5 (113.7 to 189.5)	2,560.4 (2,053.7 to 3,402.3)
Benin	Male	167.1 (130.0 to 207.7)	3,586.7 (2,768.3 to 4,513.6)	208.2 (106.1 to 363.6)	4,614.6 (2,256.5 to 8,765.3)	101.9 (77.7 to 128.9)	2,024.4 (1,540.2 to 2,569.9)	127.0 (63.4 to 217.3)	2,630.4 (1,273.5 to 4,967.8)
	Female	181.3 (145.6 to 219.6)	3,489.2 (2,835.5 to 4,252.8)	206.2 (98.2 to 393.8)	4,005.6 (1,954.3 to 7,757.8)	131.9 (103.2 to 163.7)	2,328.3 (1,846.3 to 2,894.3)	147.2 (70.2 to 275.0)	2,619.9 (1,287.3 to 4,982.2)
Burkina Faso	Male	143.9 (109.8 to 179.5)	3,204.2 (2,457.8 to 4,045.5)	170.3 (101.3 to 291.0)	3,601.5 (2,116.2 to 6,397.1)	92.6 (69.1 to 116.2)	1,890.5 (1,418.8 to 2,395.9)	114.5 (68.6 to 191.1)	2,244.5 (1,318.7 to 3,884.6)
	Female	168.4 (131.1 to 214.8)	3,492.5 (2,740.2 to 4,438.6)	204.9 (104.6 to 362.9)	3,884.4 (2,023.1 to 7,035.2)	120.3 (91.2 to 157.9)	2,269.2 (1,749.2 to 2,959.1)	146.5 (76.7 to 255.0)	2,556.9 (1,330.6 to 4,531.0)
Cameroon	Male	150.5 (115.9 to 185.7)	3,224.7 (2,530.6 to 4,021.4)	193.9 (106.3 to 344.4)	4,405.7 (2,373.4 to 8,217.6)	78.7 (59.8 to 99.6)	1,589.9 (1,241.0 to 2,010.6)	119.9 (63.4 to 219.1)	2,753.1 (1,437.3 to 5,216.7)
	Female	180.7 (139.9 to 230.0)	3,493.4 (2,761.8 to 4,378.6)	195.4 (99.6 to 362.5)	3,886.6 (1,961.6 to 7,418.1)	100.9 (75.6 to 132.5)	1,730.6 (1,342.2 to 2,207.7)	121.0 (59.5 to 227.4)	2,307.9 (1,336.8 to 4,400.8)
Cape Verde	Male	248.1 (219.0 to 278.8)	5,344.4 (4,822.1 to 5,942.4)	220.5 (169.7 to 290.2)	4,388.1 (3,451.0 to 5,637.1)	215.9 (186.7 to 243.5)	4,502.5 (4,022.4 to 5,038.9)	195.8 (150.4 to 259.9)	3,781.9 (2,965.9 to 4,909.7)
	Female	173.9 (151.0 to 195.5)	3,420.6 (3,075.5 to 3,794.6)	159.1 (131.5 to 210.5)	3,099.2 (2,630.0 to 3,957.3)	150.1 (130.0 to 171.0)	2,795.3 (2,478.2 to 3,126.3)	135.4 (110.5 to 181.4)	2,481.5 (2,071.9 to 3,171.1)
Chad	Male	141.4 (108.0 to 182.1)	2,936.6 (2,252.6 to 3,812.3)	194.5 (101.0 to 361.1)	4,229.8 (2,143.6 to 8,389.6)	99.7 (75.2 to 129.4)	1,900.3 (1,449.5 to 2,465.2)	138.9 (72.4 to 253.7)	2,826.0 (1,435.3 to 5,510.4)
	Female	175.1 (138.9 to 219.7)	3,368.7 (2,685.9 to 4,244.0)	204.5 (91.1 to 419.5)	3,985.3 (1,816.5 to 8,437.2)	126.6 (97.8 to 163.3)	2,205.1 (1,750.8 to 2,827.6)	146.8 (64.8 to 289.5)	2,644.3 (1,193.4 to 5,426.0)
Cote d'Ivoire	Male	250.0 (193.9 to 314.3)	5,468.3 (4,170.3 to 6,963.5)	251.1 (131.7 to 423.6)	5,520.9 (2,805.0 to 9,824.3)	211.7 (163.9 to 266.6)	4,363.2 (3,308.6 to 5,550.1)	139.1 (112.5 to 355.6)	4,428.6 (2,252.6 to 7,701.1)
	Female	257.4 (196.2 to 331.3)	5,027.6 (3,876.6 to 6,338.9)	253.0 (125.6 to 423.4)	4,979.2 (2,424.7 to 8,510.5)	213.9 (161.3 to 276.7)	3,900.6 (2,975.1 to 4,995.7)	209.6 (104.8 to 346.3)	3,883.9 (1,936.0 to 6,603.3)
The Gambia	Male	155.9 (98.4 to 274.8)	3,275.9 (2,073.0 to 5,906.7)	182.7 (126.1 to 275.8)	3,786.9 (2,650.6 to 5,839.1)	122.8 (77.5 to 213.2)	2,361.7 (1,511.1 to 4,223.6)	151.6 (105.8 to 226.4)	2,978.0 (1,207.9 to 4,573.9)
	Female	246.7 (119.2 to 443.8)	4,839.2 (3,239.6 to 8,991.5)	201.4 (120.7 to 315.4)	3,787.3 (2,332.4 to 5,951.2)	205.1 (100.4 to 361.5)	3,701.0 (1,805.3 to 6,724.5)	172.8 (104.6 to 269.2)	3,058.5 (1,871.2 to 4,819.9)
Ghana	Male	165.8 (107.7 to 251.3)	3,570.9 (2,292.8 to 5,499.8)	175.9 (100.0 to 301.9)	3,880.5 (2,179.5 to 7,027.8)	122.8 (79.4 to 186.1)	2,512.4 (1,579.6 to 3,902.8)	119.6 (68.6 to 203.9)	2,433.0 (1,383.1 to 4,309.6)
	Female	356.1 (218.2 to 527.9)	7,082.3 (4,314.3 to 10,818.6)	259.9 (135.3 to 497.2)	5,017.3 (2,583.2 to 9,833.8)	284.0 (173.2 to 421.3)	5,379.9 (3,307.9 to 8,199.7)	206.7 (106.6 to 391.6)	3,834.0 (1,961.7 to 7,435.6)
Guinea	Male	142.4 (107.4 to 183.0)	2,953.2 (2,272.4 to 3,792.2)	201.8 (113.7 to 335.3)	4,379.3 (2,397.7 to 7,548.0)	95.2 (70.8 to 124.5)	1,806.6 (1,364.7 to 2,329.0)	139.1 (79.1 to 225.6)	2,880.1 (1,555.1 to 4,941.4)
	Female	226.8 (182.6 to 286.2)	4,433.4 (3,550.9 to 5,489.6)	236.5 (127.9 to 384.4)	4,656.9 (2,496.7 to 7,625.3)	162.7 (129.2 to 208.4)	2,862.1 (2,275.0 to 3,634.5)	174.3 (93.5 to 284.4)	3,236.1 (1,733.9 to 5,340.2)
Guinea-Bissau	Male	204.9 (97.7 to 418.8)	4,517.9 (2,105.9 to 10,061.1)	234.4 (111.2 to 534.6)	5,320.0 (2,419.7 to 13,566.9)	150.7 (72.8 to 301.6)	3,034.9 (1,412.4 to 6,591.3)	175.7 (84.0 to 392.0)	3,728.9 (1,691.1 to 9,345.0)
	Female	268.1 (100.7 to 541.1)	5,460.5 (2,018.2 to 11,899.3)	295.5 (109.5 to 699.2)	6,191.3 (2,185.3 to 16,489.6)	212.2 (82.1 to 418.0)	3,925.4 (1,469.2 to 8,324.3)	236.9 (88.4 to 539.8)	4,589.0 (1,652.1 to 11,632.7)
Liberia	Male	171.0 (112.7 to 241.8)	3,646.0 (2,422.4 to 5,250.5)	164.1 (102.6 to 261.1)	3,458.6 (2,155.2 to 5,575.8)	133.6 (86.8 to 187.5)	2,682.5 (1,753.7 to 3,840.1)	119.6 (81.1 to 207.9)	2,433.0 (1,607.0 to 4,168.6)
	Female	236.3 (166.7 to 343.9)	4,732.0 (3,321.1 to 6,906.5)	217.5 (120.2 to 335.7)	4,246.7 (2,351.1 to 6,783.8)	190.1 (134.1 to 277.5)	3,544.2 (2,474.0 to 5,179.4)	176.5 (98.4 to 268.9)	3,249.4 (1,799.1 to 5,112.6)
Mali	Male	138.7 (110.7 to 169.8)	2,820.2 (2,286.1 to 3,427.0)	127.7 (83.3 to 202.0)	2,541.9 (1,674.9 to 4,159.1)	76.8 (59.0 to 97.0)	1,387.1 (1,095.6 to 7,174.7)	74.2 (47.8 to 117.8)	1,356.3 (878.0 to 2,229.9)
	Female	259.7 (203.2 to 324.9)	5,276.3 (4,185.9 to 6,530.5)	224.2 (122.9 to 375.1)	4,414.1 (2,352.2 to 7,471.8)	183.5 (140.2 to 231.5)	3,363.4 (2,601.6 to 4,266.7)	164.0 (90.1 to 274.2)	2,982.1 (1,593.5 to 5,081.8)
Mauritania	Male	189.6 (150.6 to 233.9)	4,059.0 (3,164.7 to 5,058.5)	125.7 (59.1 to 211.8)	2,593.7 (1,357.7 to 4,461.7)	137.4 (107.7 to 170.6)	2,733.1 (2,146.7 to 3,404.8)	93.1 (43.9 to 153.4)	1,798.0 (931.0 to 3,035.6)
	Female	254.5 (186.9 to 319.8)	4,959.2 (3,652.4 to 6,249.9)	180.3 (90.4 to 305.3)	3,451.2 (1,825.3 to 5,779.8)	199.7 (144.5 to 254.4)	3,624.3 (2,666.1 to 4,569.1)	146.9 (73.1 to 251.1)	2,640.8 (1,392.5 to 4,436.5)
Niger	Male	158.1 (115.7 to 206.0)	3,349.6 (2,490.1 to 4,394.9)	164.2 (95.2 to 274.9)	3,511.3 (2,037.8 to 6,084.9)	116.3 (84.2 to 152.2)	2,288.5 (1,634.4 to 2,951.9)	121.3 (70.9 to 203.1)	2,433.9 (1,414.6 to 4,169.7)
	Female	195.4 (157.7 to 239.8)	3,824.1 (3,088.5 to 4,667.2)	194.4 (113.0 to 316.1)	3,768.6 (2,166.6 to 6,121.1)	158.5 (126.5 to 196.6)	2,823.8 (2,268.7 to 3,452.6)	161.8 (93.2 to 262.6)	2,945.7 (1,675.6 to 4,774.7)
Nigeria	Male	118.0 (68.7 to 184.7)	2,525.5 (1,516.7 to 4,009.7)	126.1 (86.8 to 202.2)	2,591.0 (1,841.2 to 4,174.5)	157.9 (38.4 to 101.1)	1,309.2 (795.0 to 2,078.6)	104.5 (71.1 to 167.3)	1,977.3 (1,400.6 to 3,127.9)
	Female	176.1 (111.1 to 281.7)	3,419.8 (2,152.9 to 5,417.5)	126.6 (81.0 to 234.5)	2,403.3 (1,609.5 to 4,430.8)	112.4 (69.9 to 178.7)	1,966.5 (1,230.7 to 3,123.6)	104.7 (67.0 to 190.3)	1,798.2 (1,210.5 to 3,242.3)
Sao Tome and Principe	Male	199.9 (161.6 to 238.5)	4,307.2 (3,502.8 to 5,172.4)	216.3 (108.4 to 352.3)	4,732.9 (2,340.8 to 8,195.6)	173.2 (138.6 to 208.6)	2,733.1 (2,836.9 to 4,257.6)	190.0 (95.7 to 308.3)	1,974.0 to 6,931.2
	Female	251.1 (207.5 to 314.4)	5,109.1 (4,219.2 to 6,360.5)	309.1 (157.3 to 524.2)	6,302.3 (3,146.5 to 11,107.6)	220.2 (178.7 to 276.3)	4,175.3 (3,420.7 to 5,198.4)	270.	

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Togo	Male	196.9 (154.1 to 246.6)	4,075.7 (3,138.1 to 5,107.4)	248.8 (132.8 to 380.6)	5,312.4 (2,713.1 to 8,530.9)	154.3 (120.3 to 192.8)	2,904.3 (2,245.6 to 3,665.6)	198.9 (109.1 to 300.9)	3,912.2 (2,033.0 to 6,156.1)
	Female	240.0 (181.4 to 316.5)	4,664.5 (3,556.8 to 6,137.1)	209.7 (115.9 to 350.7)	4,030.0 (2,253.3 to 6,806.5)	199.5 (148.0 to 265.2)	3,565.9 (2,711.9 to 4,738.7)	178.1 (99.6 to 295.1)	3,172.9 (1,796.7 to 5,288.6)
Eastern Sub-Saharan Africa	Male	228.7 (196.2 to 270.2)	4,937.0 (4,204.0 to 5,836.2)	205.6 (162.6 to 259.7)	4,306.8 (3,379.1 to 5,458.6)	153.7 (130.3 to 182.6)	3,067.7 (2,617.1 to 3,668.6)	151.0 (119.7 to 189.6)	3,025.2 (2,363.5 to 3,841.5)
	Female	276.9 (237.0 to 317.8)	5,275.9 (4,534.6 to 6,075.3)	210.1 (163.2 to 266.3)	3,864.7 (2,977.5 to 4,931.5)	203.1 (172.6 to 235.0)	3,561.1 (3,057.0 to 4,104.6)	161.9 (127.7 to 204.1)	2,813.2 (2,188.7 to 3,552.6)
Burundi	Male	370.7 (205.2 to 541.7)	8,693.0 (4,517.2 to 13,629.2)	191.8 (104.9 to 309.1)	4,041.9 (2,201.3 to 6,861.5)	238.6 (130.2 to 346.3)	5,192.3 (2,684.7 to 8,080.2)	136.0 (75.4 to 216.4)	2,747.1 (1,495.5 to 4,644.1)
	Female	470.5 (264.4 to 671.1)	9,626.3 (5,069.4 to 14,495.2)	255.8 (136.3 to 429.4)	4,730.7 (2,423.9 to 8,109.6)	347.8 (197.9 to 491.2)	6,508.4 (3,507.5 to 9,541.5)	202.6 (109.5 to 335.9)	3,546.6 (1,845.9 to 6,070.8)
Comoros	Male	300.0 (156.8 to 494.8)	6,622.8 (3,260.3 to 11,408.8)	177.6 (99.1 to 286.3)	3,615.0 (1,996.8 to 6,087.9)	220.8 (115.5 to 359.3)	4,656.9 (2,325.8 to 8,099.9)	134.7 (76.3 to 215.5)	2,630.8 (1,463.2 to 4,345.4)
	Female	313.2 (165.9 to 521.7)	6,080.7 (3,128.4 to 10,584.1)	202.7 (115.0 to 316.8)	3,712.9 (2,069.6 to 5,870.6)	252.4 (133.6 to 413.8)	4,626.1 (2,388.1 to 7,925.8)	164.3 (93.6 to 257.9)	2,851.0 (1,597.5 to 4,499.4)
Djibouti	Male	243.0 (144.0 to 388.8)	5,194.2 (2,964.3 to 8,658.7)	239.1 (122.5 to 451.7)	5,180.4 (2,520.3 to 10,590.2)	163.7 (97.7 to 261.4)	3,219.3 (1,852.1 to 5,395.5)	174.0 (90.0 to 325.0)	3,608.9 (1,770.6 to 7,380.1)
	Female	205.3 (116.6 to 351.1)	3,749.5 (2,150.5 to 6,635.9)	196.2 (103.4 to 407.9)	3,619.6 (1,904.9 to 7,928.1)	155.9 (90.0 to 262.9)	2,596.6 (1,471.9 to 5,541.5)	155.3 (81.5 to 321.2)	2,699.6 (1,419.9 to 5,767.3)
Eritrea	Male	247.9 (179.4 to 329.4)	5,515.3 (3,964.4 to 7,446.2)	194.4 (96.7 to 350.7)	4,182.5 (1,951.8 to 8,160.7)	137.1 (97.4 to 188.1)	2,859.9 (2,001.9 to 3,970.8)	112.7 (56.2 to 202.9)	2,291.9 (1,080.3 to 4,399.2)
	Female	311.2 (235.0 to 394.1)	6,051.6 (4,548.7 to 7,815.6)	259.4 (105.6 to 462.8)	4,954.6 (1,913.8 to 9,544.8)	194.9 (146.9 to 252.7)	3,478.7 (2,616.2 to 4,538.4)	160.7 (69.4 to 284.3)	2,829.8 (1,124.7 to 5,351.2)
Ethiopia	Male	282.0 (217.9 to 350.1)	6,059.1 (4,610.1 to 7,734.2)	197.0 (119.2 to 329.5)	3,876.4 (2,286.7 to 6,900.3)	176.3 (134.7 to 226.1)	3,363.2 (2,524.9 to 4,330.9)	138.9 (84.6 to 228.7)	2,523.4 (1,496.3 to 4,452.7)
	Female	288.8 (230.7 to 351.4)	5,380.0 (4,278.7 to 6,728.4)	189.6 (99.6 to 324.7)	3,306.2 (1,741.4 to 5,798.2)	169.7 (133.7 to 213.3)	2,759.4 (2,168.5 to 3,447.6)	125.2 (67.6 to 212.6)	1,987.5 (1,060.1 to 3,442.0)
Kenya	Male	116.1 (95.1 to 139.5)	2,423.5 (1,980.3 to 2,915.1)	130.8 (108.5 to 156.7)	2,732.1 (2,272.8 to 3,273.7)	77.5 (63.1 to 94.1)	1,518.8 (1,221.0 to 1,841.0)	93.6 (77.3 to 112.7)	1,862.6 (1,529.0 to 2,251.3)
	Female	161.2 (134.7 to 191.7)	2,958.6 (2,495.6 to 3,530.4)	138.1 (115.6 to 162.2)	3,217.5 (2,104.4 to 2,949.6)	127.7 (105.9 to 152.6)	2,191.4 (1,834.2 to 2,624.1)	112.8 (94.0 to 132.8)	1,945.3 (1,624.3 to 2,295.3)
Madagascar	Male	293.2 (247.2 to 356.0)	6,517.6 (5,383.7 to 7,890.3)	297.8 (157.3 to 489.2)	6,521.6 (3,144.6 to 11,583.8)	193.5 (159.6 to 232.3)	3,947.7 (3,219.7 to 4,833.1)	211.0 (113.5 to 344.4)	4,411.3 (2,182.8 to 7,697.5)
	Female	347.9 (282.6 to 414.2)	6,665.8 (5,462.1 to 8,019.1)	313.5 (164.2 to 522.3)	5,897.9 (2,946.6 to 10,308.7)	258.1 (208.0 to 312.1)	4,495.3 (3,658.7 to 5,413.0)	243.4 (127.0 to 401.1)	4,312.5 (2,172.3 to 7,394.9)
Malawi	Male	180.0 (118.7 to 243.4)	3,805.0 (2,518.7 to 5,209.6)	179.7 (106.4 to 299.1)	3,757.9 (2,231.0 to 6,402.7)	155.3 (103.2 to 211.1)	3,170.9 (2,106.2 to 4,327.2)	156.0 (93.2 to 261.8)	3,162.5 (1,890.7 to 5,417.8)
	Female	276.4 (211.7 to 351.3)	5,404.6 (4,181.6 to 6,808.8)	187.1 (103.7 to 324.5)	3,415.8 (1,921.6 to 5,006.5)	251.6 (189.2 to 322.4)	4,723.9 (3,630.6 to 5,963.2)	171.8 (94.2 to 293.3)	3,023.9 (1,706.4 to 5,199.5)
Mozambique	Male	240.4 (179.8 to 306.1)	5,320.1 (3,993.7 to 6,752.7)	294.6 (140.5 to 497.3)	6,588.4 (3,064.4 to 11,833.9)	206.9 (153.5 to 264.7)	4,457.9 (3,330.5 to 5,695.1)	255.9 (123.7 to 425.9)	5,575.3 (2,611.2 to 9,998.6)
	Female	236.2 (193.4 to 292.5)	4,494.8 (3,692.9 to 5,515.5)	252.1 (125.3 to 477.5)	4,731.5 (2,404.6 to 9,244.5)	211.5 (172.6 to 262.9)	3,872.6 (3,183.9 to 4,754.0)	223.2 (110.8 to 416.7)	4,030.6 (2,044.4 to 7,824.5)
Rwanda	Male	254.9 (187.5 to 357.7)	5,566.9 (4,014.7 to 7,836.8)	164.9 (102.9 to 279.6)	3,335.0 (2,042.4 to 5,928.4)	153.5 (111.4 to 218.3)	3,160.2 (2,250.3 to 4,494.2)	103.7 (64.5 to 175.2)	1,984.9 (1,211.7 to 3,485.5)
	Female	411.4 (322.1 to 533.0)	8,016.3 (6,180.2 to 10,301.4)	190.3 (105.9 to 331.7)	3,361.3 (1,856.2 to 5,965.7)	315.8 (244.2 to 412.1)	5,729.7 (4,388.8 to 7,465.2)	146.9 (81.0 to 254.8)	2,423.8 (1,352.7 to 4,281.8)
Somalia	Male	248.2 (98.9 to 476.7)	5,547.6 (2,072.4 to 11,659.8)	225.4 (95.2 to 452.0)	5,044.1 (1,986.8 to 11,264.0)	161.7 (66.4 to 302.0)	3,341.2 (1,283.0 to 6,936.4)	157.5 (66.6 to 314.6)	3,374.4 (1,332.2 to 7,606.0)
	Female	336.8 (108.4 to 598.0)	6,805.0 (2,021.8 to 13,438.9)	303.5 (103.4 to 557.0)	6,115.2 (1,997.9 to 12,644.4)	255.5 (86.9 to 439.8)	4,733.9 (1,485.6 to 9,051.7)	243.0 (84.2 to 430.1)	4,632.6 (1,552.8 to 9,239.5)
South Sudan	Male	209.3 (93.9 to 418.8)	4,532.1 (1,941.5 to 9,816.8)	194.3 (92.5 to 429.3)	4,239.2 (1,949.0 to 10,394.3)	140.0 (63.5 to 273.7)	2,801.4 (1,217.1 to 5,974.8)	139.6 (66.4 to 308.0)	2,923.1 (1,336.0 to 7,239.1)
	Female	290.0 (100.8 to 555.5)	5,719.0 (1,917.2 to 11,888.0)	256.6 (93.2 to 558.5)	5,089.1 (1,802.4 to 12,584.1)	224.0 (80.8 to 421.2)	4,055.8 (4,142.1 to 8,267.5)	205.6 (76.3 to 439.4)	3,854.7 (1,382.4 to 9,313.4)
Tanzania	Male	186.4 (143.5 to 228.0)	3,868.4 (2,978.6 to 4,753.7)	184.3 (115.6 to 330.1)	3,816.2 (2,393.0 to 7,020.4)	119.7 (91.1 to 148.1)	2,295.2 (1,747.6 to 2,869.5)	140.4 (87.2 to 252.5)	2,870.6 (1,777.9 to 5,325.0)
	Female	224.4 (168.4 to 287.4)	4,199.6 (3,198.3 to 5,334.7)	192.8 (97.1 to 372.0)	3,618.6 (1,847.9 to 7,126.8)	166.2 (123.2 to 212.2)	2,859.1 (2,165.6 to 3,624.0)	153.0 (76.9 to 292.1)	2,763.2 (1,415.2 to 5,374.1)
Uganda	Male	206.9 (131.4 to 279.2)	4,370.1 (2,688.0 to 6,055.8)	219.4 (114.6 to 356.9)	4,658.2 (2,309.8 to 8,132.5)	153.9 (97.7 to 212.0)	3,136.5 (1,934.3 to 4,367.6)	152.8 (79.5 to 248.5)	3,106.6 (1,545.1 to 5,358.7)
	Female	316.1 (214.1 to 396.6)	5,960.3 (4,083.4 to 7,487.9)	220.3 (110.4 to 389.5)	3,985.5 (1,964.5 to 7,306.9)	266.4 (181.7 to 334.1)	4,794.8 (3,249.7 to 6,027.3)	176.6 (87.8 to 310.0)	3,031.7 (1,506.2 to 5,460.3)
Zambia	Male	147.3 (97.4 to 193.3)	2,975.6 (1,929.8 to 3,965.8)	282.1 (160.6 to 405.5)	6,253.8 (3,300.8 to 9,474.9)	100.7 (67.5 to 133.8)	1,868.1 (1,213.1 to 2,503.1)	202.5 (115.6 to 285.5)	4,301.6 (2,280.1 to 6,467.9)
	Female	261.9 (190.7 to 330.8)	4,901.0 (3,572.8 to 6,159.9)	248.9 (130.1 to 400.7)	4,643.4 (2,388.5 to 7,740.3)	197.3 (144.3 to 250.3)	3,356.2 (2,471.0 to 4,433.5)	194.7 (100.5 to 315.9)	3,416.4 (1,771.2 to 5,644.2)
Central Sub-Saharan Africa	Male	213.9 (146.3 to 291.2)	4,583.4 (3,072.9 to 6,446.6)	207.8 (134.7 to 308.5)	4,426.8 (2,814.7 to 6,716.0)	145.0 (99.6 to 197.2)	3,045.7 (2,048.1 to 4,320.6)	144.2 (93.6 to 212.7)	3,051.3 (1,944.4 to 4,644.5)
	Female	285.3 (200.9 to 390.1)	5,415.0 (3,769.5 to 7,538.2)	267.3 (168.8 to 378.8)	5,019.3 (3,071.8 to 7,574.5)	200.0 (140.2 to 277.5)	3,683.5 (2,539.8 to 5,156.4)	189.2 (120.8 to 272.3)	3,477.0 (2,150.1 to 5,218.3)
Angola	Male	285.4 (102.6 to 508.0)	6,459.7 (2,168.1 to 12,654.2)	231.6 (111.8 to 518.9)	5,001.0 (2,279.3 to 12,562.9)	203.4 (74.5 to 359.0)	4,458.4 (1,499.9 to 8,577.2)	174.0 (83.9 to 391.3)	3,690.4 (1,691.0 to 9,445.7)
	Female	356.2 (117.8 to 638.0)	7,048.0 (2,171.1 to 13,993.7)	328.9 (123.1 to 701.0)	6,395.5 (2,186.9 to 15,730.3)	266.0 (91.0 to 473.6)	5,016.3 (1,583.5 to 9,780.1)	248.7 (92.7 to 533.8)	4,651.9 (1,610.3 to 11,309.1)
Central African Republic	Male	318.8 (221.0 to 410.7)	7,100.6 (4,826.1 to 9,344.0)	349.8 (128.0 to 581.2)	8,148.3 (2,631.7 to 15,059.5)	224.9 (155.3 to 294.1)	4,854.6 (3,331.2 to 6,402.7)	254.5 (92.0 to 420.2)	5,812.8 (1,904.1 to 10,586.3)
	Female	360.7 (275.1 to 448.3)	6,869.1 (5,203.2 to 8,653.6)	357.0 (126.1 to 637.2)	7,013.8 (2,241.3 to 13,883.2)	268.5 (202.3 to 337.4)	4,897.6 (3,636.4 to 6,255.5)	269.7 (95.0 to 482.8)	5,114.2 (1,664.5 to 9,995.0)
Congo	Male	326.0 (218.4 to 427.4)	7,072.4 (4,568.6 to 9,659.8)	195.5 (119.3 to 339.5)	3,938.2 (2,367.6 to 7,333.5)	235.0 (155.8 to 313.2)	4,949.5 (3,141.4 to 6,787.2)	147.1 (88.1 to 257.5)	2,904.0 (1,740.9 to 5,417.3)
	Female	401.5 (274.8 to 534.5)	7,677.0 (5,135.9 to 10,730.8)	354.5 (178.8 to 571.2)	6,764.7 (3,168.1 to 11,542.1)	289.4 (203.2 to 399.6)			

eTable 6. Estimated age-standardized rates of deaths and disability-adjusted life years (DALYs) per 100,000 related to systolic blood pressure > 110–115 mm Hg and systolic blood pressure > 140 mmHg for all causes combined for males and females in 1990 and 2015 for global, SDI groupings, 7 super regions, 21 regions, and at the country and territory level with 95% uncertainty interval. SDI is calculated as a function of lag-dependent income per capita, average educational attainment in the population older than age 15 years, and the total fertility rate. SDI=Socio-demographic Index (continued)

	Sex	Systolic Blood Pressure > 110–115 mm Hg				Systolic Blood Pressure > 140 mm Hg			
		1990		2015		1990		2015	
		Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)	Deaths (per 100,000)	DALYs (per 100,000)
Gabon	Male	299.6 (223.1 to 373.2)	6,286.7 (4,681.4 to 7,970.7)	195.0 (123.5 to 327.9)	3,861.1 (2,389.5 to 6,801.3)	225.4 (166.3 to 282.1)	4,562.9 (3,398.2 to 5,822.9)	151.5 (95.6 to 254.1)	2,900.2 (1,774.7 to 5,156.6)
Gabon	Female	283.8 (206.9 to 363.2)	5,036.5 (3,641.7 to 6,476.1)	235.4 (134.6 to 389.5)	4,148.0 (2,310.7 to 7,102.8)	228.9 (166.5 to 296.7)	3,861.0 (2,801.5 to 5,039.1)	188.0 (104.1 to 312.3)	3,144.0 (1,742.5 to 5,369.2)