Supplementary Appendix

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

Supplement to: The GBD 2015 Obesity Collaborators. Health effects of overweight and obesity in 195 countries over 25 years. N Engl J Med. DOI: 10.1056/NEJMoa1614362

Health Effects of Overweight and Obesity in 195 Countries over 25 Years

Supplemental Materials

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Data Sources

We systematically searched Medline to identify studies providing nationally or subnationally representative estimates of overweight prevalence, obesity prevalence, or mean body-mass index (BMI) there were published between 1 January 2014 and 31 December 2015 to update the systematic literature search previously performed as part of GBD 2013.[1]

The search for adults was conducted on 26 January 2016 using the following terms:

(("Body Mass Index"[Mesh] OR "Overweight"[Mesh] OR "Obesity"[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] NOT "hospital"[TiAb] AND ("2014/01/01"[Date - Publication] : "2015/12/31"[Date - Publication])

The search for children was conducted on 11 August 2016 using the following terms:

(((("Body Mass Index"[Mesh] OR "Overweight"[Mesh] OR "Obesity"[Mesh]) AND "Geographic Locations"[Mesh] NOT "United States"[Mesh]) AND ("humans"[Mesh] AND "child"[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] NOT "hospital"[TiAb])) AND ("2014/01/01"[Date - Publication] : "2015/12/31"[Date - Publication])

Our search for adult estimates identified 2,036 abstracts, of which 127 met inclusion criteria and were extracted. The search for children estimates identified 971 articles, of which 146 were extracted. Including sources from the GBD 2013 search, a total of 10,627 articles were identified, of which 816 were included. Additionally, we searched the Global Health Data Exchange (GHDx) database for individual-level data from major multinational survey series or country-specific surveys and identified 1,026 unique sources meeting the inclusion criteria. Figure S4 describes the study selection process.

Eligibility Criteria

We included nationally or subnationally representative studies providing data on mean BMI or prevalence of overweight or obesity among adults or children. For adults, studies were included if they defined overweight as BMI≥25 kg/m^2 and obesity as BMI≥30 kg/m^2, or if estimates using those cutoffs could be back-calculated from reported categories. For children (children ages 2-18), studies were included if they used International Obesity Task Force (IOTF) standards to define overweight and obesity thresholds. We only included studies reporting data collected between 1 January 1980 and 31 December 2015 in one of the 195 countries included in this analysis. Studies were excluded if using non-random samples (e.g., case-control studies or convenience samples); conducted among specific subpopulations (e.g., pregnant women, racial or ethnic minorities, immigrants, or individuals with specific diseases); using alternative methods to assess adiposity (e.g., waist-circumference, skin-fold thickness, or hydrodensitometry); having sample sizes of less than 20 per 5-year age-sex group; or providing inadequate information on any of the inclusion criteria. We also excluded review articles and non-English articles.

Data collection process

Where individual-level survey data were available, we computed mean BMI using weight and height and then used BMI to determine the prevalence of overweight and obesity. For individuals aged over 18 years, we considered them to be overweight if their BMI was greater than or equal to 25 kg/m^2, and obese if their BMI was greater than or equal to 30 kg/m^2. For individuals aged 2-18 years, we used monthly IOTF cutoffs[2] to determine overweight and obese status when age in months was available.

When only age in years was available, we used the cutoff for the 6 month of that year. We excluded studies using the World Health Organization (WHO) standards or country-specific cutoffs to define childhood overweight and obesity. At the individual-level, we considered BMI<10 kg/m^2 and BMI>70 kg/m^2 to be biologically implausible and excluded those observations.

The rationale for choosing to use the IOTF cutoffs over the WHO standards has been described elsewhere. [1] Briefly, the IOTF cutoffs provide consistent child-specific standards for ages 2-18 derived surveys covering multiple countries. On the other hand, the WHO growth standards apply to children under 5 and the WHO growth reference applies to children ages 5-19. The WHO growth reference for children ages 5-19 was derived from United States data which is less representative than the multinational data used by IOTF. Additionally, the switch between references at age 5 can produce artificial discontinuities.[1] Given that we estimate global childhood overweight and obesity for ages 2-19 (with ages 19 using standard adult cutoffs), the IOTF cutoffs were preferable. Additionally, we found that IOTF cutoffs were more commonly used in scientific literature covering childhood obesity.

From report and literature data, we extracted data on mean BMI, prevalence of overweight, and prevalence of obesity, measures of uncertainty for each, and sample size, by the most granular age and sex groups available.

In addition to the primary indicators described above, we extracted relevant survey-design variables, including primary sampling unit, strata, and survey weights, which were used to tabulate individual-level microdata and produce accurate measures of uncertainty. We extracted three study-level covariates: 1) whether height and weight data were measured or self-reported, 2) whether the study was predominantly conducted in an urban area, rural area, or both, and 3) the level of representativeness of the study (national or subnational). Finally, we extracted relevant demographic indicators, including location, year, age, and sex. We estimated the standard error of the mean from individual-level data where available and used the reported standard error of the mean for published data. When multiple data sources were available for the same country, we included all of them in our analysis. If data from the same data source were available in multiple formats such individual-level data and tabulated data, we used individual-level data.

Self-report bias adjustment

We included both measured and self-reported data. Of 68,539,856 person-years of data, 16,944,472 (24.7%) were self-reported. We tested for bias in self-report data compared to measured data, which is considered to be the gold-standard. We found that there was no significant difference between measured and self-reported data for children ages 2-19. For adults, we adjusted self-reported data for overweight prevalence, obesity prevalence, and mean BMI using the following nested hierarchical mixed-effects regression models, fit using restricted maximum likelihood separately by sex:

$$\mathrm{logit(overweight)}_{c,a,t} = \beta_0 + \beta_1 m + \sum_{k=2}^{15} \beta_k I_{A[a]} + \sum_{l=16}^{41} \beta_l I_{A[a]} I_{M[m]} + \alpha_s + \alpha_s m + \alpha_r + \alpha_r m + \alpha_c + \alpha_c m + \alpha_t + \alpha_t m + \epsilon_{c,a,t}$$

$$\mathrm{logit(obesity)}_{c,a,t} = \beta_0 + \beta_1 m + \sum_{k=2}^{15} \beta_k I_{A[a]} + \sum_{l=16}^{41} \beta_l I_{A[a]} I_{M[m]} + \alpha_s + \alpha_s m + \alpha_r + \alpha_r m + \alpha_c + \alpha_c m + \alpha_t + \alpha_t m + \epsilon_{c,a,t}$$

$$\mathrm{log(BMI)}_{c,a,t} = \beta_0 + \beta_1 m + \sum_{k=2}^{15} \beta_k I_{A[a]} + \sum_{l=16}^{41} \beta_l I_{A[a]} I_{M[m]} + \alpha_s + \alpha_s m + \alpha_r + \alpha_r m + \alpha_c + \alpha_c m + \alpha_t + \alpha_t m + \epsilon_{c,a,t}$$

Where m is a fixed effect on measurement (binary, either measured (1) or self-report (0)), $I_{A[a]}$ is an indicator variable for specific age group A, $I_{A[a]} I_{M[m]}$ is an interaction term between age and measurement, α_s, α_r, and α_c are random effects at the super region, region, and country, respectively, and α_t is a random effect by time-period (1980-1991, 1992-2003, 2004-2015). The models were run in Stata 13. Random effects at the country level and time-period level were used to fit the models, but were taken as noise and were not used in adjustment of self-reported data. We propagated the uncertainty in the self-report adjustment model by adding the variance of each of the regression coefficients used in adjustment to the data variance in delta-transformed space. After adjustment, regressions confirmed that self-reported data was no longer significantly different from measured data. As an additional sensitivity analysis we ran a set of models for overweight and obesity using only measured data and compared the root-mean squared error (RMSE) of these model to the RMSE of the full models. RMSE was calculated comparing measured data to the predicted estimates. Differences in RMSE were minimal and are shown in Table S7.

Age and sex splitting

Any report or literature data provided in age groups wider than the standard 5-year age groups or as both sexes combined were split using the approach used by Ng et al.[4] Briefly, age-sex patterns were identified using sources with data on multiple age-sex groups and these patterns were applied to split aggregated report and literature data. Uncertainty in the age-sex split was propagated by multiplying the standard error of the data by the square root of the number of splits performed. We did not propagate the uncertainty in the age pattern and sex pattern used to split the data as they seemed to have small effect.

Prevalence estimation for overweight and obesity

After adjusting for self-report bias and splitting aggregated data into 5-year age-sex groups, we used spatiotemporal Gaussian process regression (ST-GPR) to estimate the prevalence of overweight and obesity. Prevalence models for adults were restricted to using only adult data (ages 20+). Due to data scarcity in child data for some geographies and time periods, prevalence models for children included data for both children and adults, but only the childhood estimates were retained. This modeling approach has been described in detail elsewhere.[3,4]

Briefly, we estimated the prevalence of overweight and obesity in country c, for age group a, and sex s at time t ($p_{c,a,s,t}$) using the equation below:

$$logit(p_{c,a,s,t}) = g_{c,a,s}(t) + \epsilon_{c,a,s,t}$$

where

$$g_{c,a,s}(t) \sim GP\left(m_{c,a,s}(t), Cov\left(g_{c,a,s}(t)\right)\right).$$

$$\epsilon_{c,a,s,t} \sim Normal(0, \sigma_p^2),$$

σ_p^2 represents the error variance, which is composed of the squared standard error of the observed data point as well as the prediction errors from the self-report adjustment, if applicable, ($m_{c,a,s}(t)$) is the mean prior input to GPR, and $Cov\left(g_{c,a,s}(t)\right)$ is the covariance function input to GPR.

We used an empirical mean prior ($m_{c,a,s}(t)$), which was the output of the first-stage linear model plus the smoothed residuals:

$$m_{c,a,s}(t) = X_{c,a,s}\beta + h(r_{c,a,s,t})$$

where $X\beta$ is the summation of the components from the following linear regressions, fit separately by sex, and $h(r_{c,a,s,t})$, is a smoothing function for the residuals, $r_{c,a,s,t}$, derived from the following linear models for adults only:

$$\mathrm{logit}(\mathrm{ow}_{\mathrm{c,a,t}}) = \beta_0 + \beta_1 \mathrm{energy}_{\mathrm{c,t}} + \beta_2\, \mathrm{lat}_{\mathrm{c}} + \beta_3 \mathrm{urbanicity}_{\mathrm{c,t}} + \sum_{k=4}^{16} \beta_k \mathrm{I}_{\mathrm{A[a]}} + \epsilon_{\mathrm{c,a,t}}$$

$$\mathrm{logit}\left(\left(\frac{\mathrm{ob}}{\mathrm{ow}}\right)_{\mathrm{c,a,t}}\right) = \beta_0 + \beta_1 \mathrm{energy}_{\mathrm{c,t}} + \beta_2\, \mathrm{lat}_{\mathrm{c}} + \beta_3 \mathrm{urbanicity}_{\mathrm{c,t}} + \sum_{k=4}^{16} \beta_k \mathrm{I}_{\mathrm{A[a]}} + \epsilon_{\mathrm{c,a,t}}$$

and adults including children:

$$\mathrm{logit}(\mathrm{ow}_{\mathrm{c,a,t}}) = \beta_0 + \beta_1 \mathrm{energy}_{\mathrm{c,t}} + \beta_2\, \mathrm{lat}_{\mathrm{c}} + \beta_3 \mathrm{urbanicity}_{\mathrm{c,t}} + \sum_{k=4}^{20} \beta_k \mathrm{I}_{\mathrm{A[a]}} + \epsilon_{\mathrm{c,a,t}}$$

$$\mathrm{logit}\left(\left(\frac{\mathrm{ob}}{\mathrm{ow}}\right)_{\mathrm{c,a,t}}\right) = \beta_0 + \beta_1 \mathrm{energy}_{\mathrm{c,t}} + \beta_2\, \mathrm{lat}_{\mathrm{c}} + \beta_3 \mathrm{urbanicity}_{\mathrm{c,t}} + \sum_{k=4}^{20} \beta_k \mathrm{I}_{\mathrm{A[a]}} + \epsilon_{\mathrm{c,a,t}}$$

where $\mathrm{energy}_{c,t}$ is a 10-year lag distributed energy intake per capita in country *c* at year t, lat_c is the absolute latitude of country c, $\mathrm{urbanicity}_{c,t}$ is the proportion of people living in urban areas in country c in time t, and $I_{A[a]}$ is an indicator variable for specific age group A that the overweight prevalence point ($\mathrm{ow}_{c,a,t}$) or obese as a proportion of overweight point ($(\frac{\mathrm{ob}}{\mathrm{ow}})_{c,a,t}$) is capturing.

While the linear model component of the mean function captures the general trend in exposures over time, much of the data varaibility may still not be 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 time adjustment parameter(λ) borrows strength from neighboring time points. The age adjustment parameter (ω) borrows strength from data in neighboring age groups. The space adjustment parameter (ξ) borrows strength across the hierarchy of geographical locations.

To estimate the $w_{c,a,s,t}$ (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:

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

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, given an age adjustment parameter ω, is defined as follows:

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

Finally, these combined weights were multiplied and further adjusted to account for geographic patterns.

Specifically, we defined a geospatial relationship by categorizing data based on the GBD location hierarchy. We adapted the weighting strategy used in previous studies estimating time series of global indicators to be more flexible with respect to estimating subnational locations and to borrow strength from all levels. [4,5] A vector of spatial weights corresponding to each level of the location hierarchy was derived as $[\xi, \xi * (1-\xi)^{n_1 - 1}, \ldots, \xi * (1-\xi)^{n_i - 1}, (1-\xi)^{n_i}]$, where the vector is expanded to include the number, n_i, levels in the location hierarchy between the location being estimated and global, which recieves a pre-rescaling weight of $(1-\xi)^{n_i}$. For example, estimating a country would use the following weighting scheme:

- Country data: ξ
- Regional data not from the country being estimated: $\xi * (1-\ \xi)$
- Data from other regions in the same super region: $\xi * (1-\xi)^2$
- Global data from other super regions: $(1-\xi)^3$

A full derivation of weights for each category, assuming the location being estimated was a country, follows:

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

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

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:

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

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

$$w_{c,a,s,t} = \frac{\xi * (1 - \xi)^2 \,(w'_{c,a,s,t} w''_{c,a,s,t})}{\sum_{c \neq c_0}(w'_{c,a,s,t} w''_{c,a,s,t})} \qquad \forall c \neq c_0 \cap R[c] \neq R[c_0] \cap SR[c] = SR[c_0]$$

4) If the observation $r_{c,t}$ is from a different super region than the focal observation r_{c_0,t_0}(ie. all other data currently not receiving a weight):

$$w_{c,a,s,t} = \frac{(1 - \xi)^3 \,(w'_{c,a,s,t} w''_{c,a,s,t})}{\sum_{c \neq c_0}(w'_{c,a,s,t} w''_{c,a,s,t})} \qquad \forall c \neq c_0 \cap R[c] \neq R[c_0] \cap SR[c] \neq SR[c_0]$$

Selection of the parameters was determined based on the results of out-of-sample cross-validation performed by Ng et al. We used three different values for ξ depending on data-coverage. The highest ξ (0.99) was used in countries with high data coverage (≥15 years covered), whereas a mid-range ξ (0.8) and a low ξ (0.7) was used in countries with 5-14 and 1-4 years of data covered. To control the rate of decay in weight for points further away across the time and age dimensions, we used a single λ (0.9) and a single ω (1.5).

For the covariance function, we used the Matern covariance function:

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

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 analyses, we approximated σ^2 by $MADN(r'_{c,t})$, which is the normalized absolute deviation of the residuals from the smoothing step by region and used the parameter specifications $v = 2$ and $l = 15$.

Based on the specification above, to predict the time series of overweight prevalence p_{c,a,s,t_*}, for country *c*, age *a*, and sex *s* for time t_*, we integrated over $g_{c,a,s}(t_*)$ to obtain the following:

$$logit(p_{c,a,s,t_*}) \sim N\left(m_{c,a,s}(t_*), \sigma_p^2 I + Cov\left(g_{c,a,s}(t_*)\right)\right)$$

From this derivation, we generated the prevalence estimates as well as the uncertainty intervals. The analysis was implemented though PyMC package in Python. Random draws of 1,000 samples were obtained from the distributions above for every country, age, and sex group. The final estimated prevalence for each country, age, and sex group was the mean of the draws. In addition, uncertainty intervals were obtained by taking the 2.5 and 97.5 percentiles of the samples.

Estimating mean BMI

To estimate the mean BMI for adults in each country, age, sex, and time period 1980-2015, we first used the following nested hierarchical mixed-effects model, fit using restricted maximum likelihood on data from sources containing estimates of all three indicators (prevalence of overweight, prevalence of obesity, and mean BMI), in order to characterize the relationship between overweight, obesity, and mean BMI:

$$\log(\mathrm{BMI}_{c,a,s,t}) = \beta_0 + \beta_1 \mathrm{ow}_{c,a,s,t} + \beta_2 \mathrm{ob}_{c,a,s,t} + \beta_3 \mathrm{sex} + \sum_{k=4}^{17} \beta_k \mathrm{I}_{A[a]} + \alpha_s(1 + \mathrm{ow}_{c,a,s,t} + \mathrm{ob}_{c,a,s,t}) + \alpha_r(1 + \mathrm{ow}_{c,a,s,t} + \mathrm{ob}_{c,a,s,t}) + \alpha_c(1 + \mathrm{ow}_{c,a,s,t} + \mathrm{ob}_{c,a,s,t}) + \epsilon_{c,a,s,t}$$

where $\mathrm{ow}_{c,a,s,t}$ is the prevalence of overweight in country *c*, age *a*, sex *s*, and year *t*, $\mathrm{ob}_{c,a,s,t}$ is the prevalence of obesity in country *c*, age *a*, sex *s*, and year *t*, sex is a fixed effect on sex, $I_{A[a]}$ is an indicator variable for age, and α_s, α_r, and α_c are random effects at the super region, region, and country, respectively. The model was run in Stata 13.

We applied the regression coefficients to the 1,000 draws of overweight prevalence and obesity prevalence produced through ST-GPR to estimate 1,000 draws of mean BMI for each country, year, age, and sex. This approach ensured that overweight prevalence, obesity prevalence, and mean BMI were correlated at the draw level.

Assessment of risk-outcome pairs

Risk-outcome pairs were defined based on strength of available evidence supporting a causal effect. Table S1 reports the results of our assessment for included risk-outcome pairs and Table S8 reports the supporting scientific literature.

Computing attributable burden

Flowchart

The process of estimating the disease burden of high BMI has been shown in Figure S5.

Exposure definition

Exposure to high BMI is defined using metrics related to national and subnational estimates of BMI. If a person has a BMI of 22.5 kg/m^2 or greater (midpoint of the optimal range of 20-25 kg/m^2), he/she is considered at risk for a range of diseases including cardiovascular diseases, musculoskeletal disorders, and cancers.

Relative risk

The relative risk per 5-unit change in BMI for each disease endpoint was obtained from meta-analyses, and where available, pooled analyses of prospective observational studies. Relative risks for all 20 outcomes, by age and sex, are reported in Table S2.

Theoretical minimum risk exposure level

The theoretical minimum risk exposure level (TMREL) of BMI was determined based on the BMI level that was associated with the lowest risk of all-cause mortality in prospective cohort studies. In GBD 2015, based on the findings of the most recent pooled analysis of prospective cohorts,[4] we changed the TMREL of BMI from 21-23 to 20-25 kg/m2.

Population attributable fraction

Population attributable fractions (PAFs) are computed using the following equation:

$$PAF_{oasgt} = \frac{\int_{x=l}^{u} RR_{oasg}(x)P_{asgt}(x)dx - RR_{oasg}(TMREL)}{\int_{x=l}^{u} RR_{oasg}(x)P_{asgt}(x)dx}$$

Where PAF_{oasgt} is the population attributable fraction for cause o, age group a, sex s, geography g, and year t. $RR_{oasg}(x)$ is the relative risk as a function of exposure level x for cause o, age group a, sex s, and geography g with the lowest level of observed exposure as l and the highest as u; $P_{asgt}(x)$ is the distribution of exposure at x for age group a, sex s, geography g, and year t.; $TMREL$ is the theoretical minimum risk exposure level.[6]

Attributable burden

Burden attributable to high BMI is computed using the following equation:

$$AB_{asgt} = \sum_{o=1}^{w} DALY_{oasgt}\, PAF_{oasgt}$$

where AB_{asgt} is the attributable burden for age group a, sex s, geography g, and year t; $DALY_{oasgt}$ is total DALYs for cause o (of w relevant outcomes) for age group a, sex s, geography g, and year t; PAF_{oasgt} is the population attributable fraction (PAF) for cause o, age group a, sex s, geography g, and year t. The proportion of attributable deaths can analogously computed by sequentially substituting each metric in place of DALYs in the equation above.

Uncertainty of PAF estimates was calculated from 1,000 draws resulting from 1,000 PAF calculations using the 1,000 draws of exposure estimates, 1,000 draws of relative risk estimates, and 1,000 draws of the theoretical minimum risk exposure level. The 1,000 draws of PAF estimates were multiplied by 1,000 draws of deaths and DALYs to produce 1,000 draws of attributable burden. All components of the PAF calculation analysis were assumed to be independent of each other.

Socio-Demographic Index

Details on construction of the Socio-demographic index (SDI) are previously published.[3] Briefly, SDI is a composite indicator (range 0-1), calculated using the Human Development Index methodology, that includes average educational attainment in the population over age 15, lag-distributed income per capita, and total fertility rate. The list of countries with their SDI level is provided in Table S3.

Decomposition

We applied the decomposition methods developed by Das Gupta to decompose changes in all-cause and cause-specific DALYs due to changes in population growth, population structure, exposure to risk, and background death and DALY rates. Details of the decomposition analysis are reported in elsewhere.[3]

Figure S1a. Age−standardized Relative Percent Change in Obesity Prevalence between 1980 and 2015 for Males (ages >= 20)

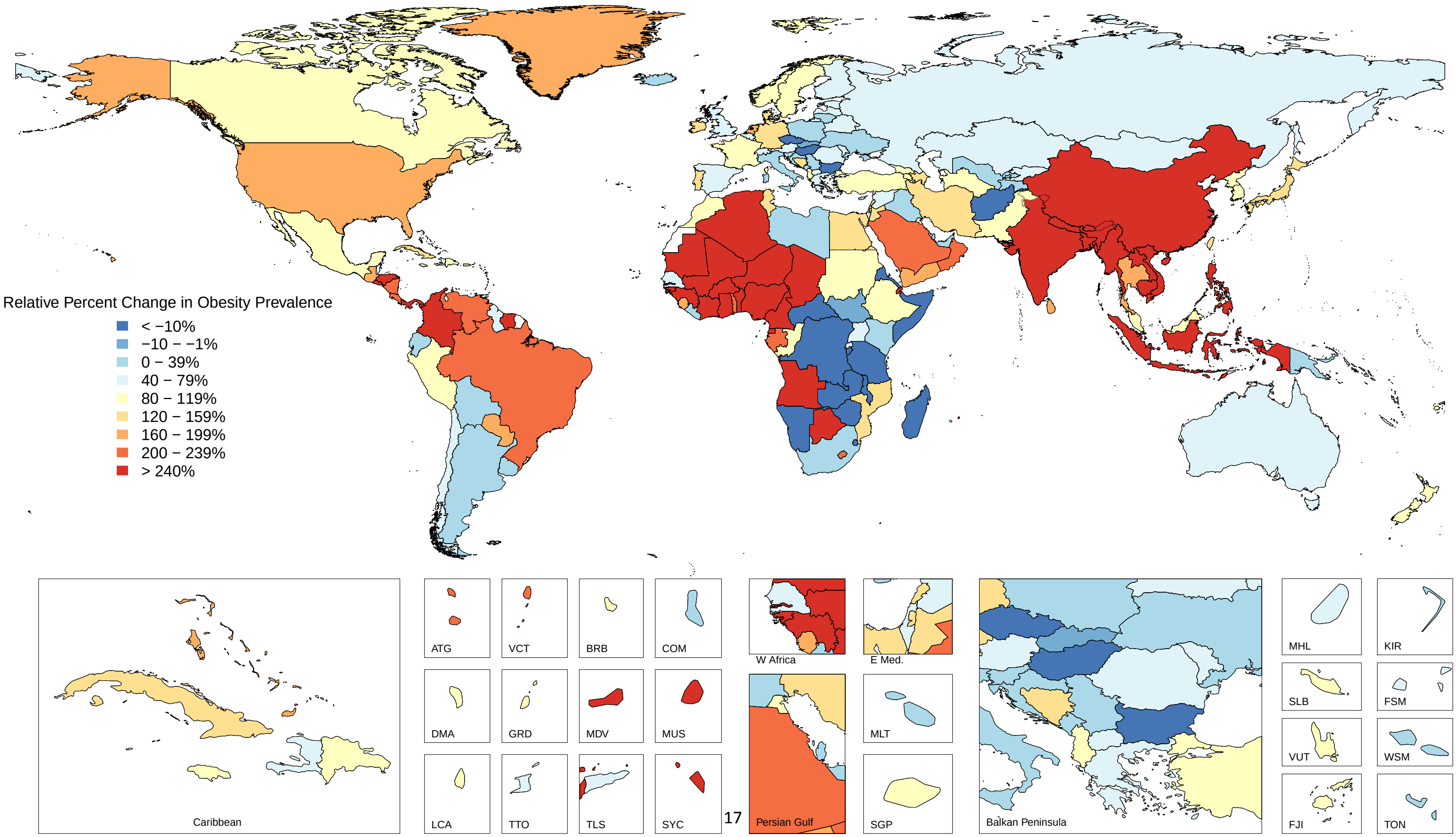

Figure S1b. Age−standardized Relative Percent Change in Obesity Prevalence between 1980 and 2015 for Females (ages >= 20)

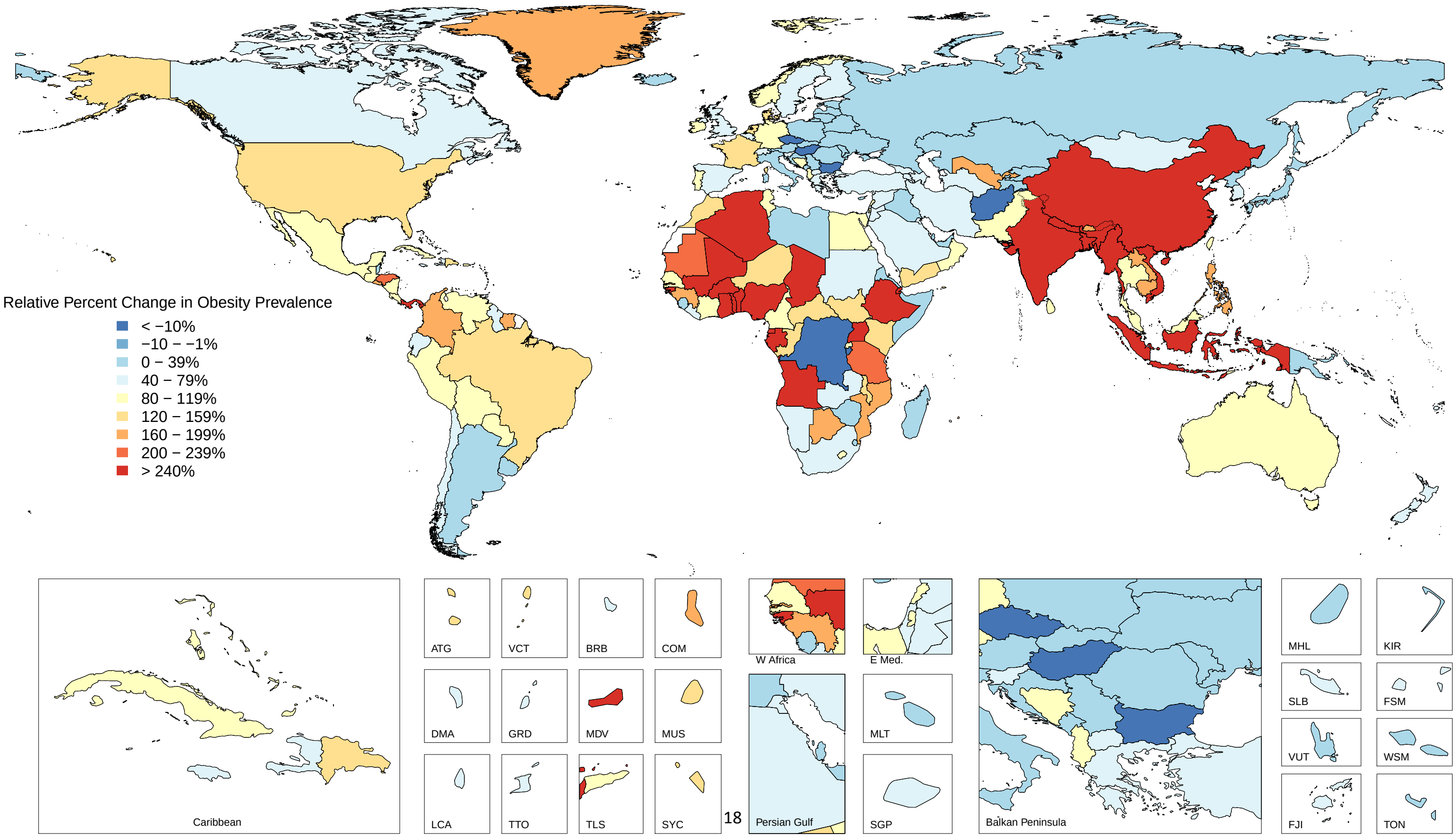

Figure S1c. Age−standardized Relative Percent Change in Obesity Prevalence between 1980 and 2015 for Males (ages 2 − 19)

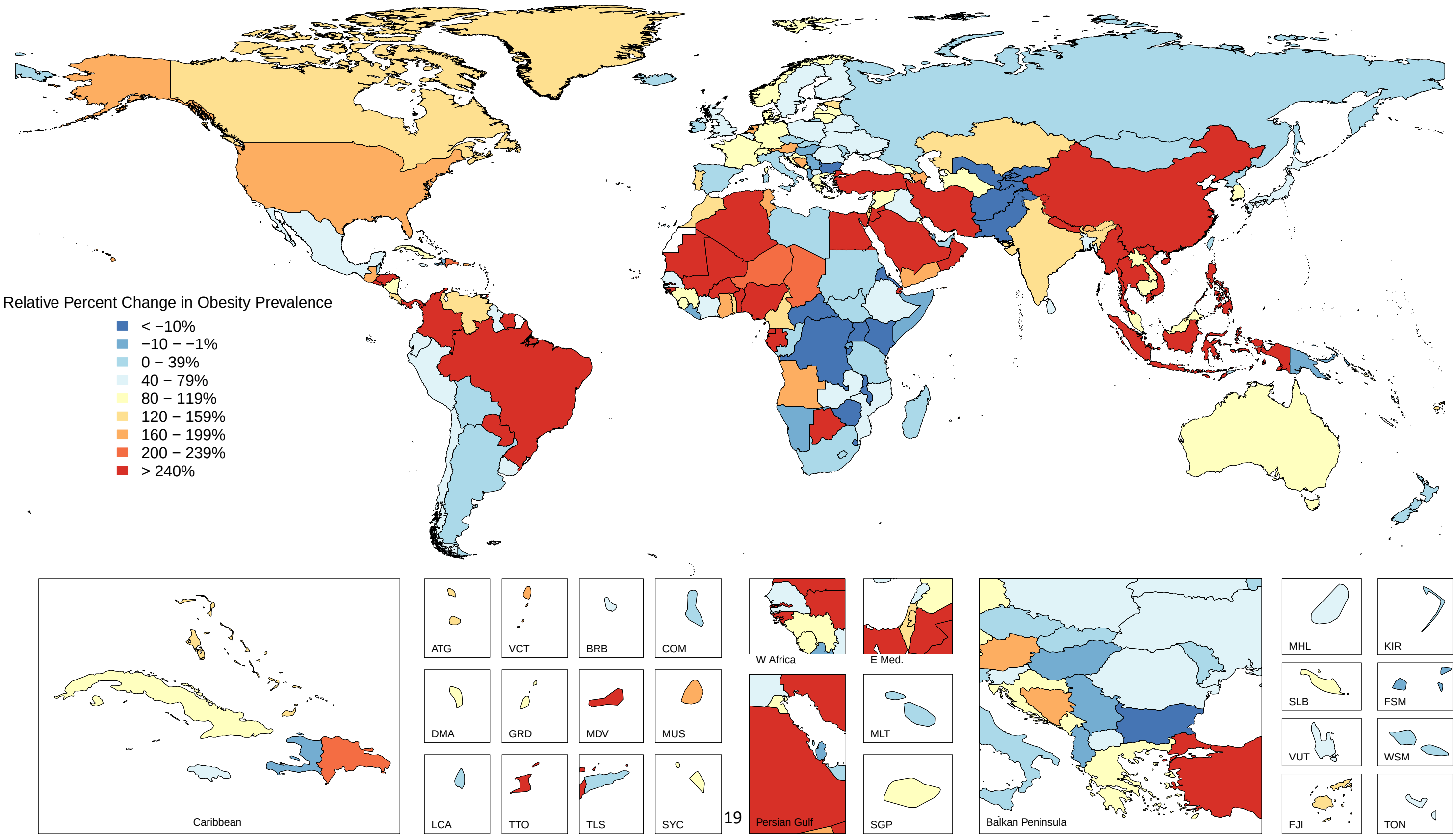

Figure S1d. Age−standardized Relative Percent Change in Obesity Prevalence between 1980 and 2015 for Females (ages 2 − 19)

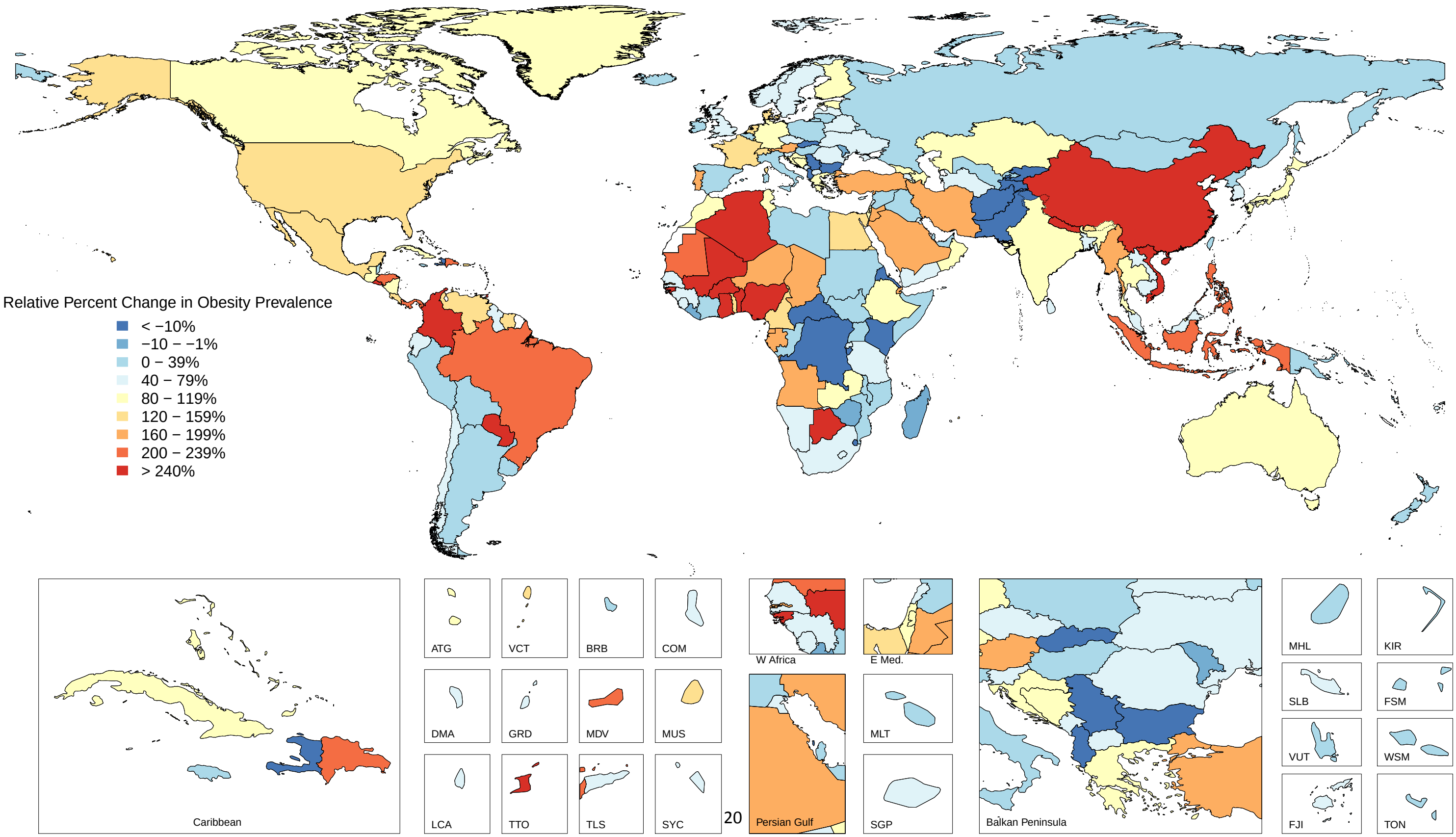

Figure S2a. Age−standardized Absolute Change of Prevalence of Obesity for Males (ages >= 20) in 2015

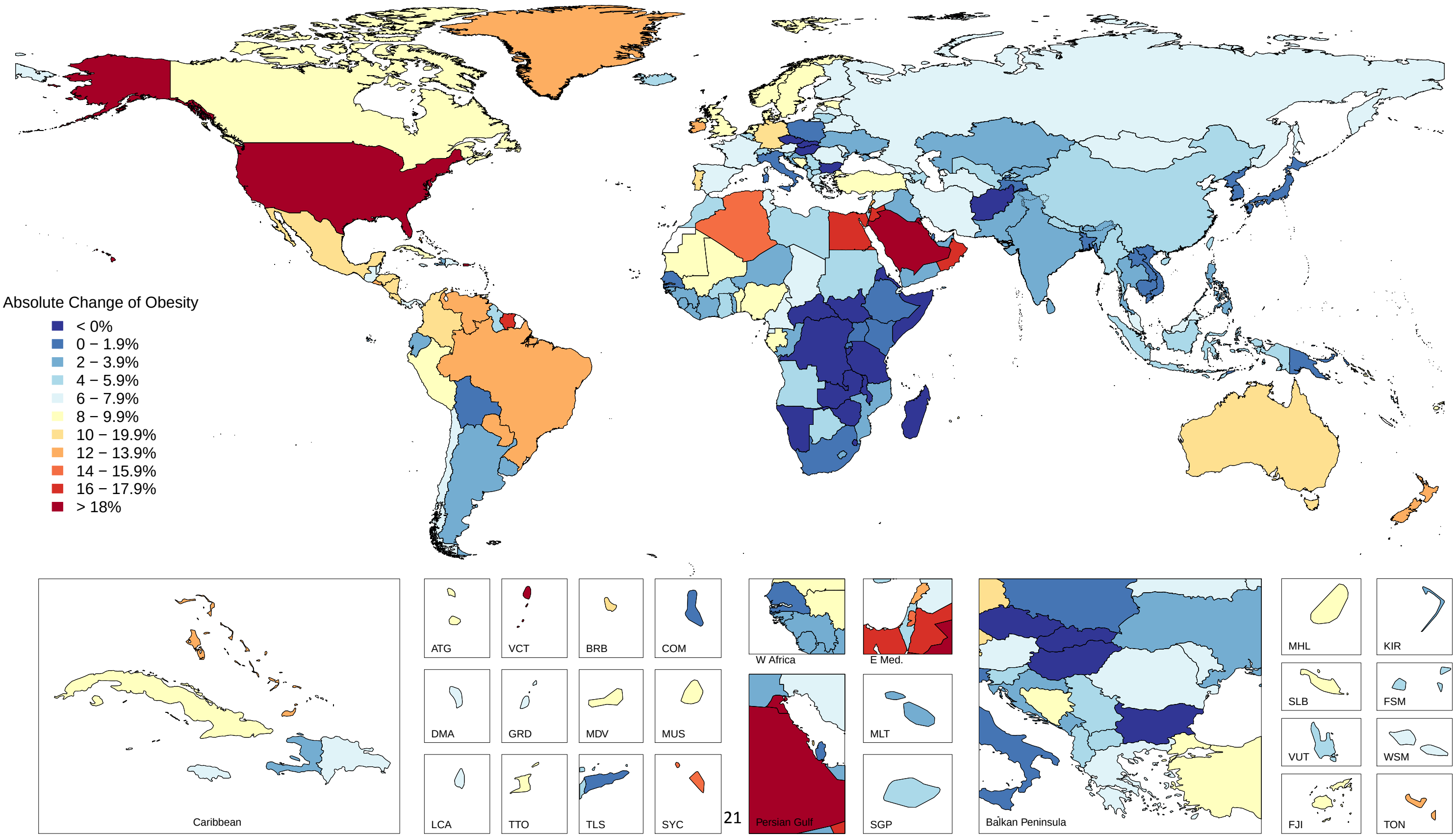

Figure S2b. Age−standardized Absolute Change of Prevalence of Obesity for Females (ages >= 20) in 2015

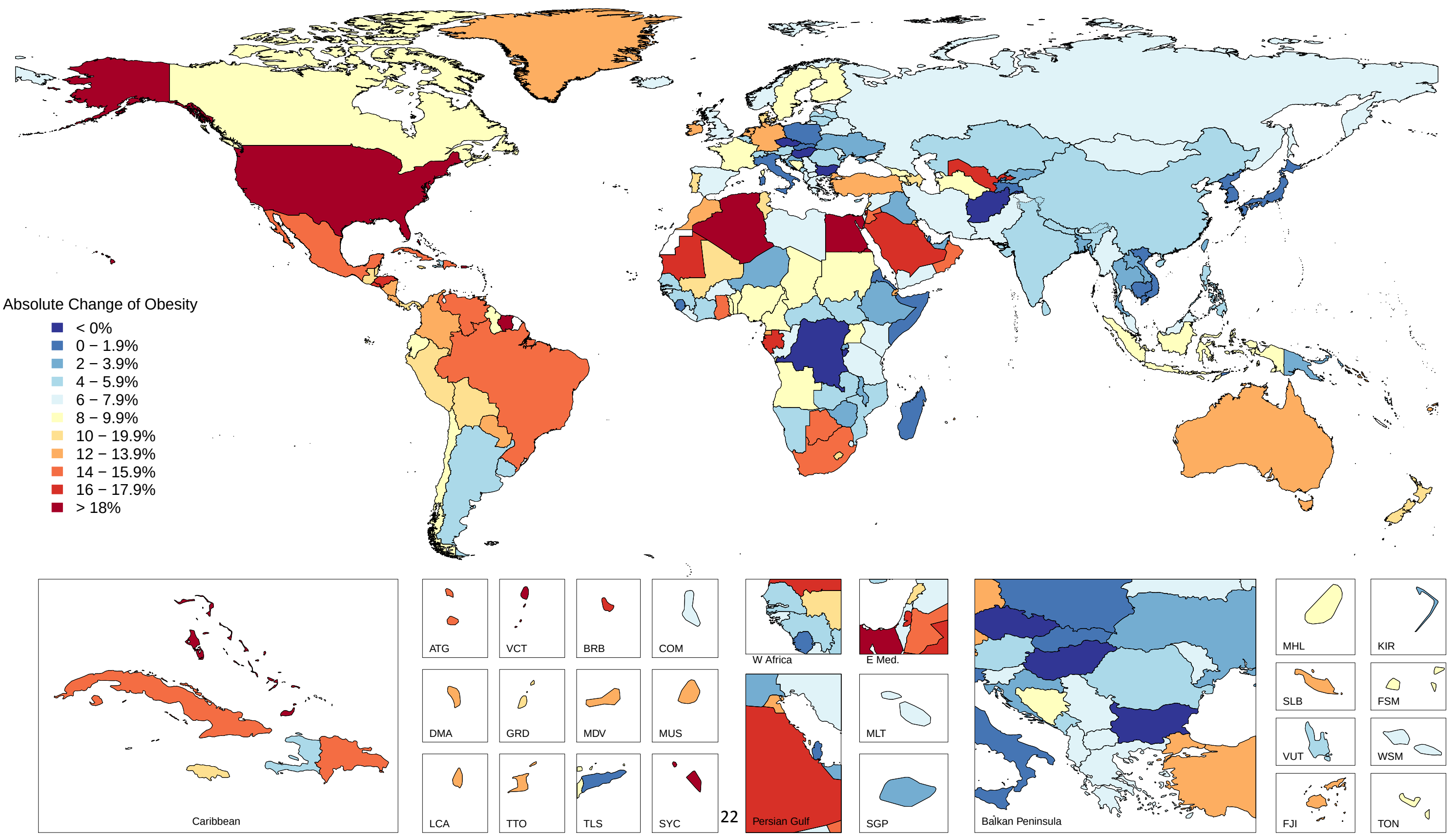

Figure S2c. Age−standardized Absolute Change of Prevalence of Obesity for Males (ages 2 − 19) in 2015

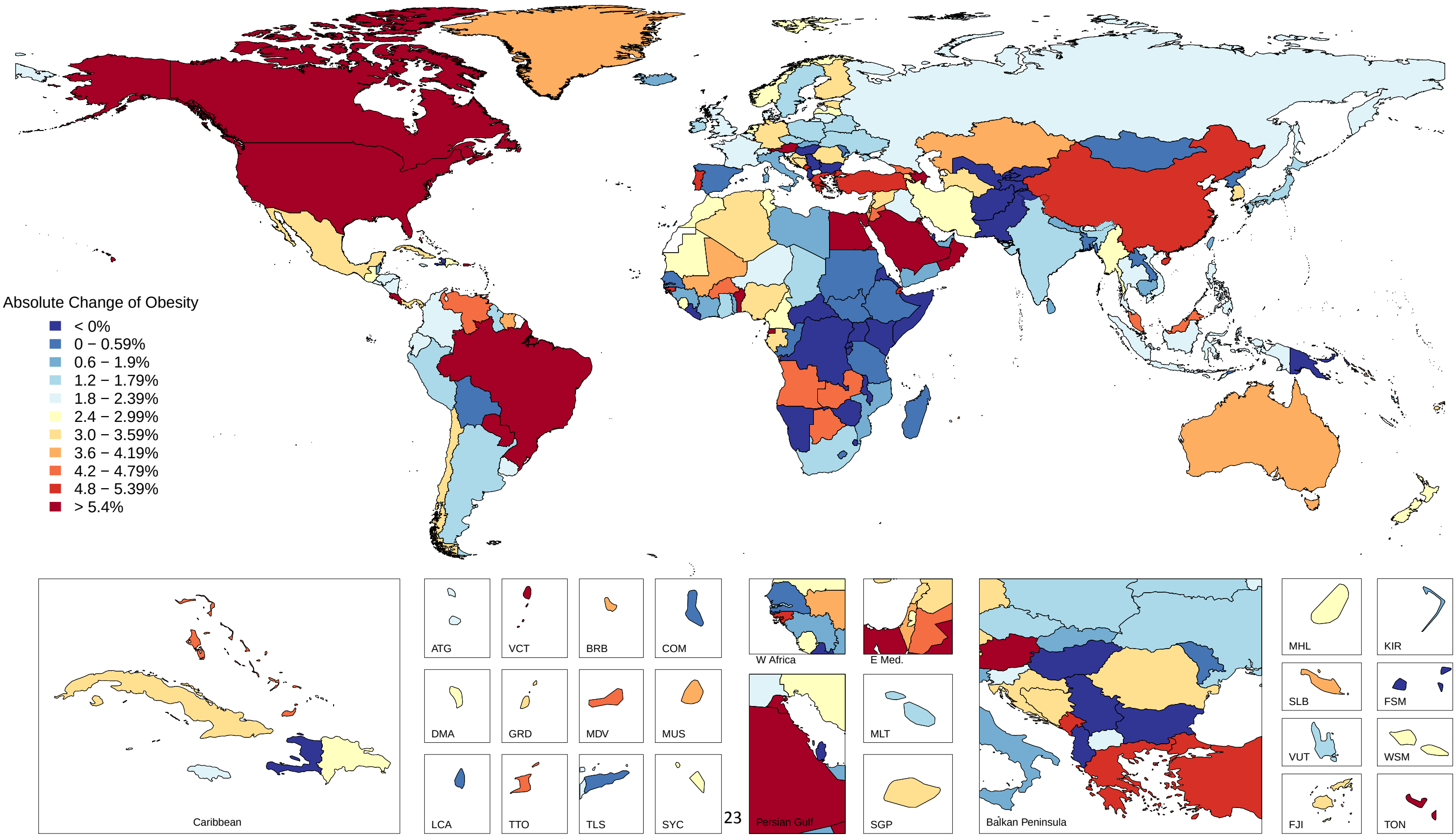

Figure S2d. Age−standardized Absolute Change of Prevalence of Obesity for Females (ages 2 − 19) in 2015

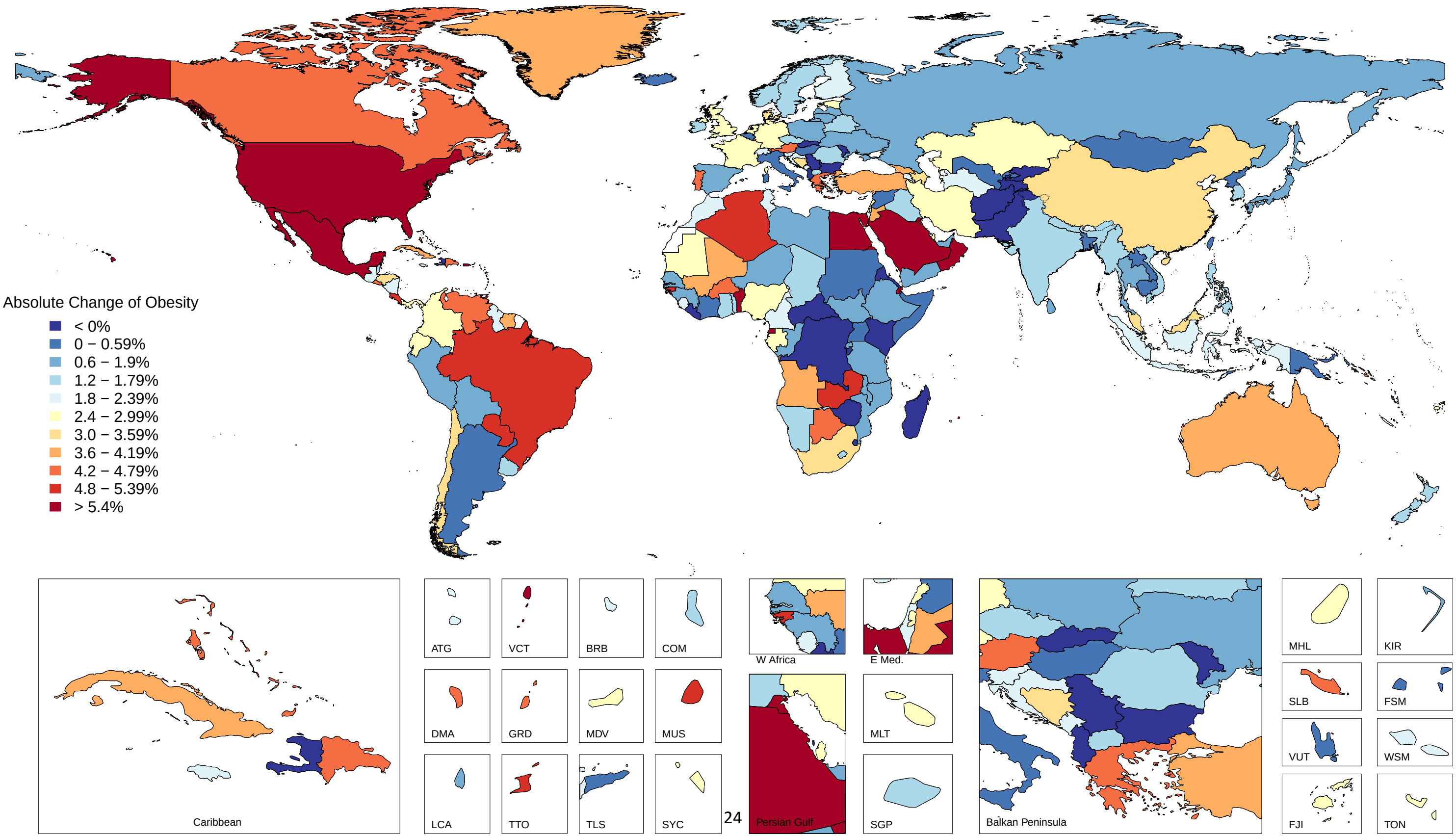

Figure S3a. Age−standardized Mortality Rate Attributable to High−BMI for Males (ages >= 25) in 2015

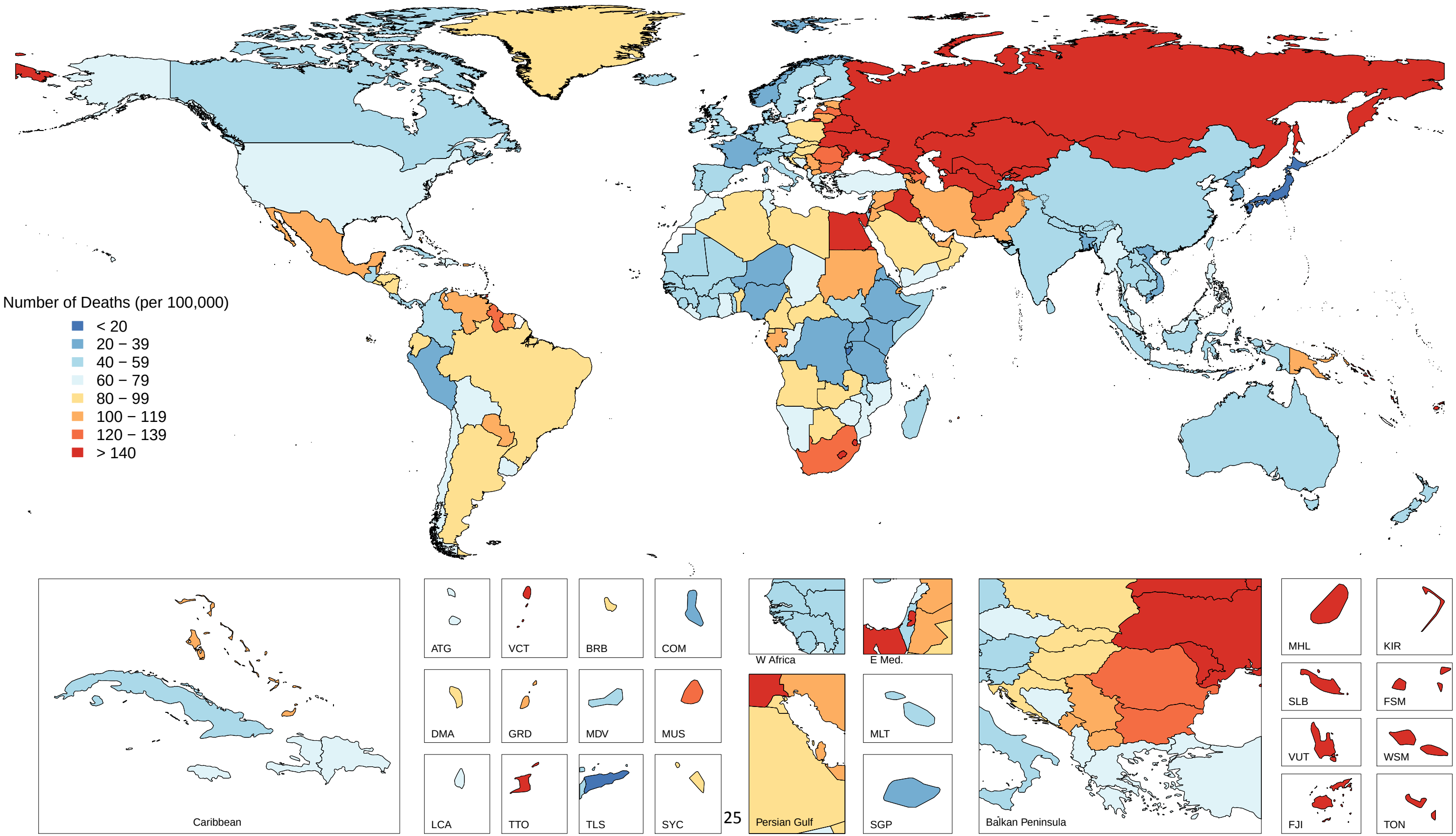

Figure S3b. Age−standardized Mortality Rate Attributable to High−BMI for Females (ages >= 25) in 2015

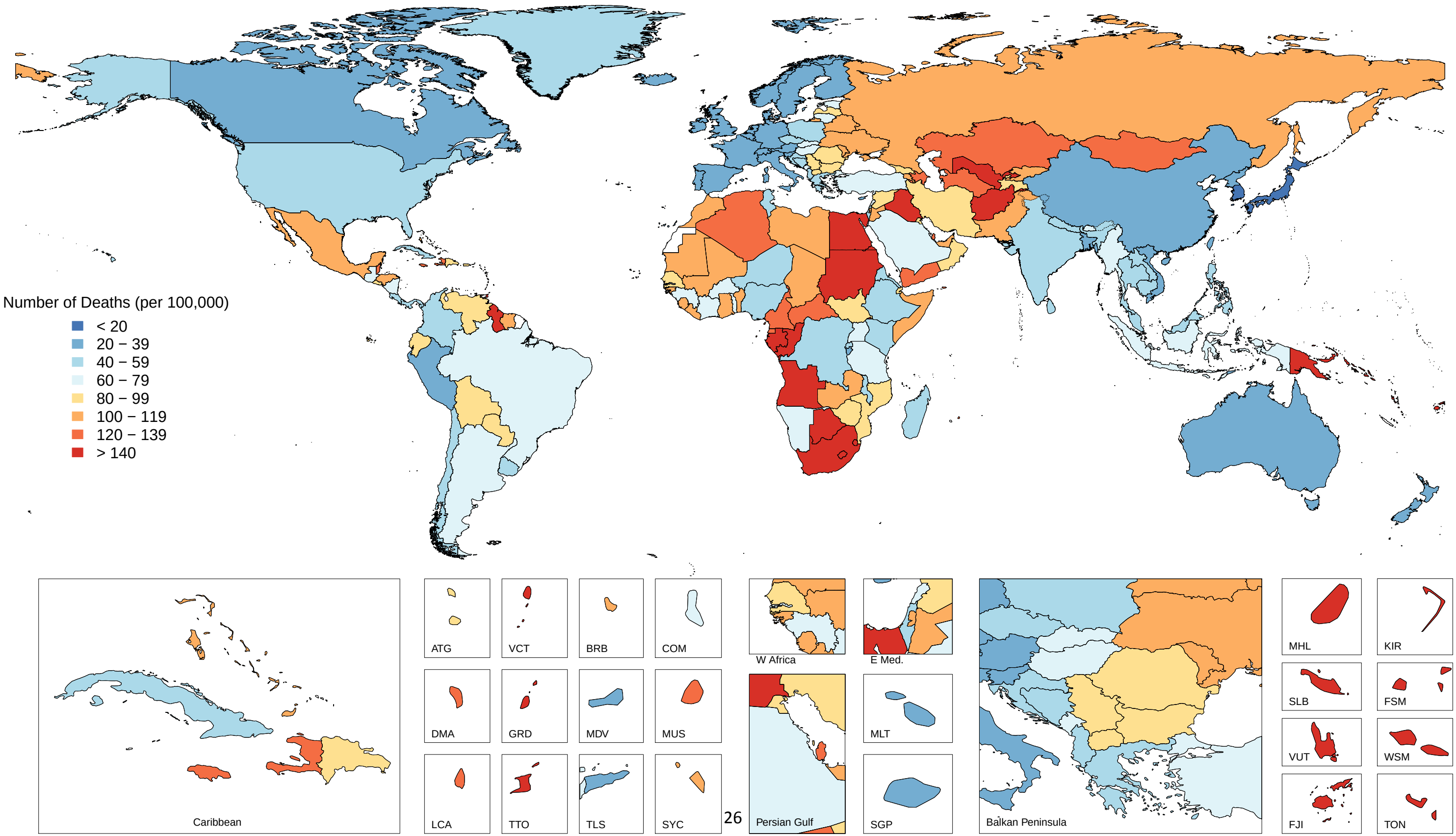

Figure S3c. Age−standardized DALY Rate Attributable to High−BMI for Males (ages >= 25) in 2015

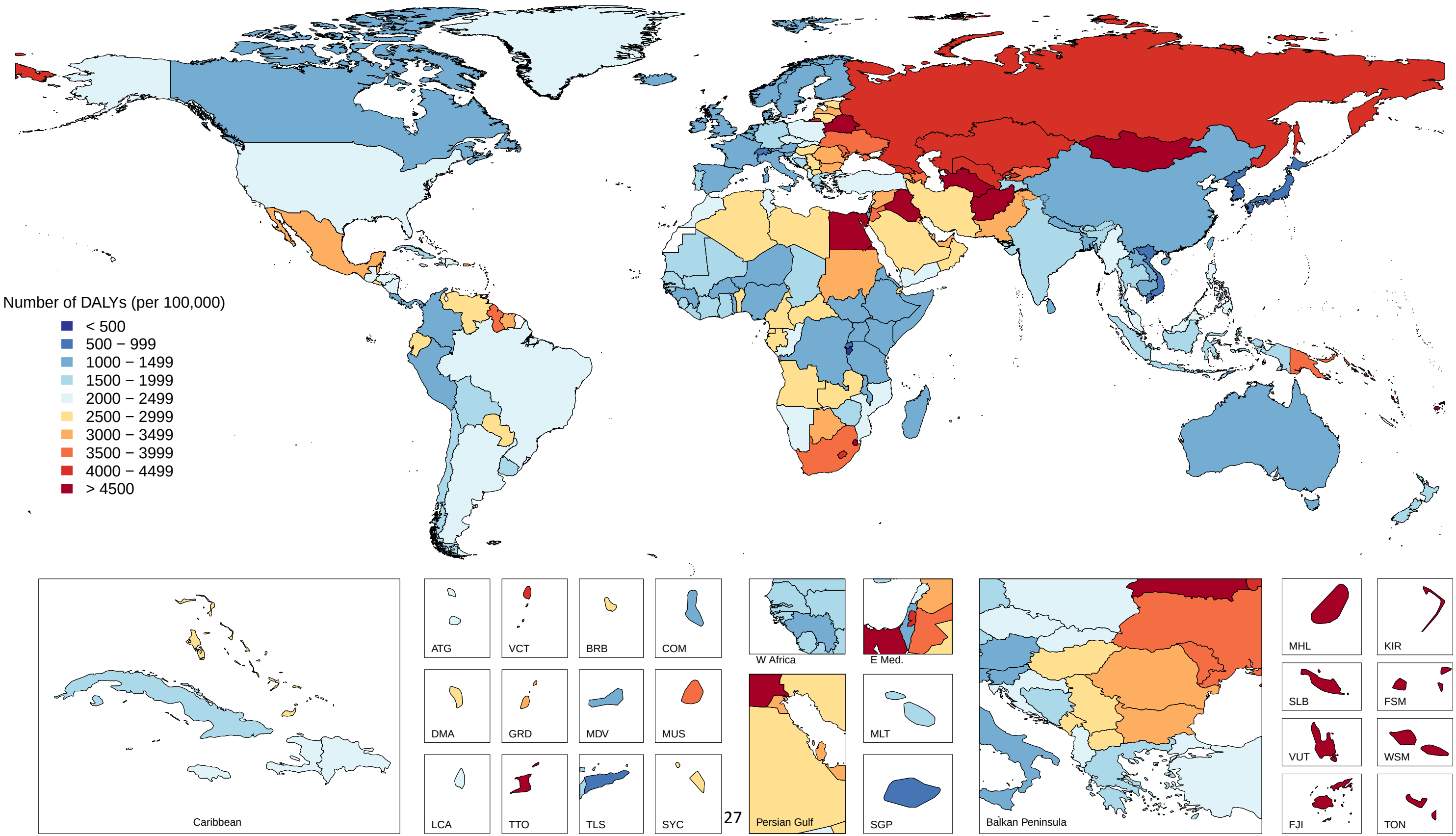

Figure S3d. Age−standardized DALY Rate Attributable to High−BMI for Females (ages >= 25) in 2015

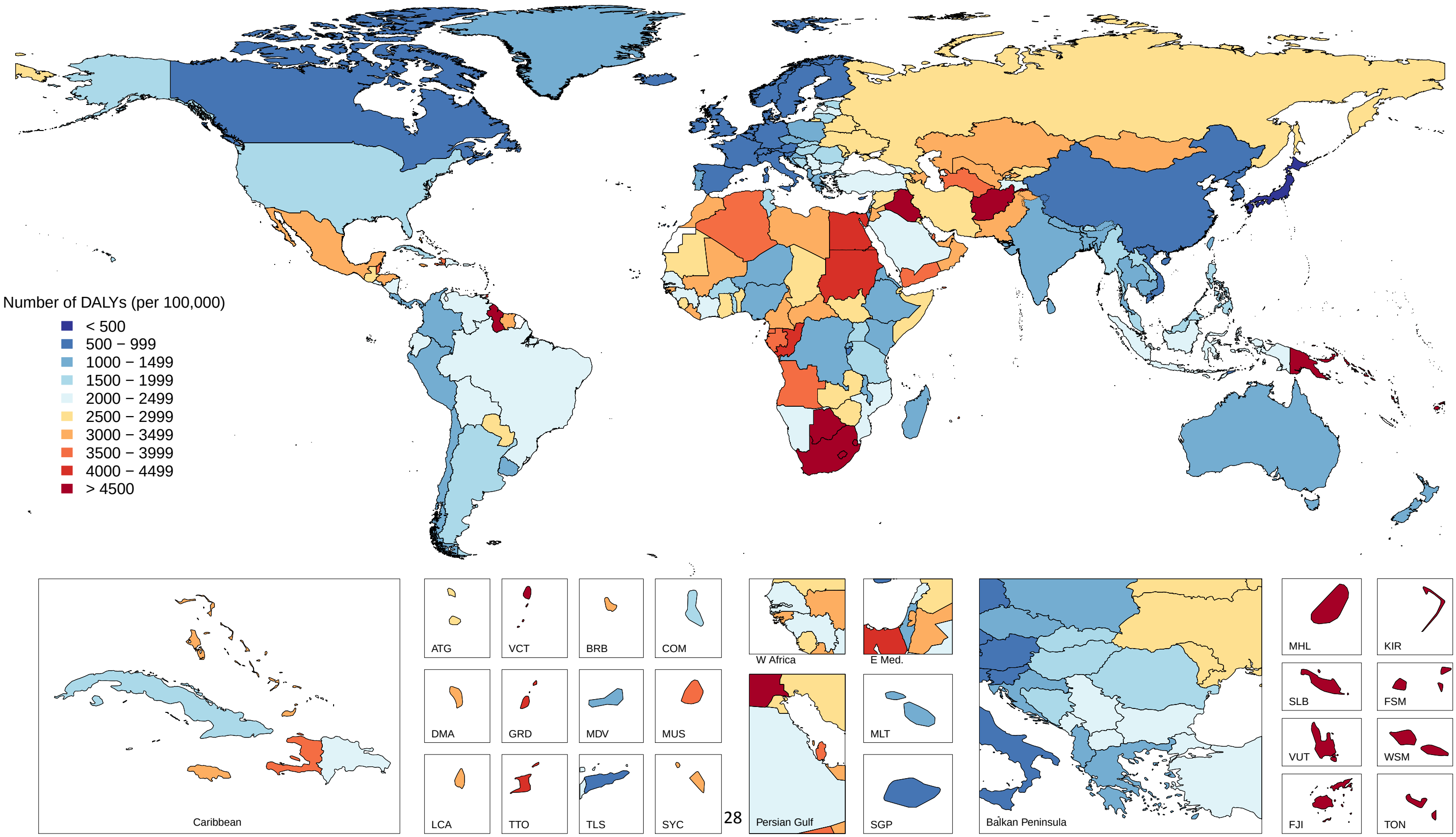

Figure S4. Selection process of scientific literature and survey data (PRISMA diagram)

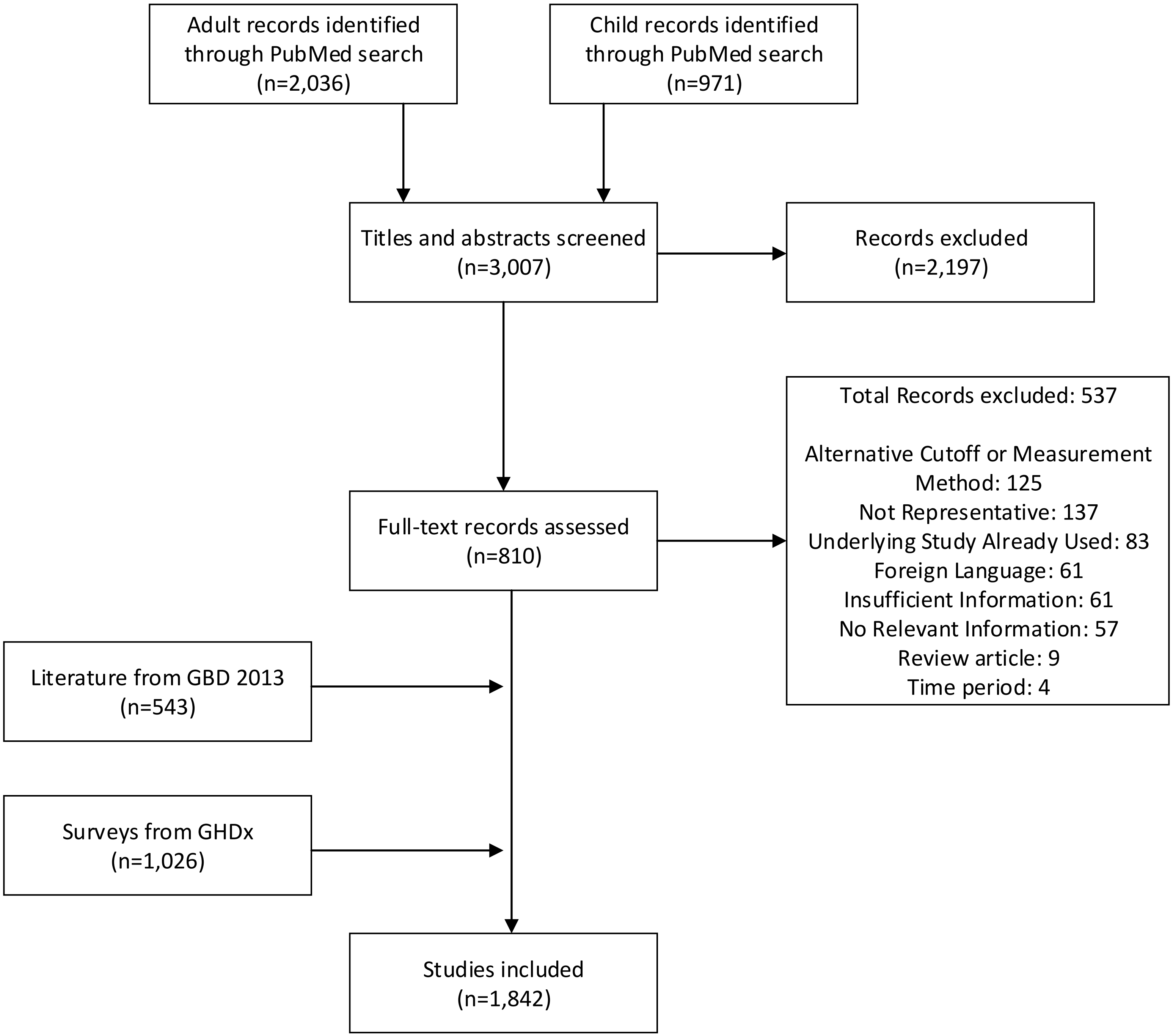

Figure S5. Process diagram for estimating the disease burden of high BMI

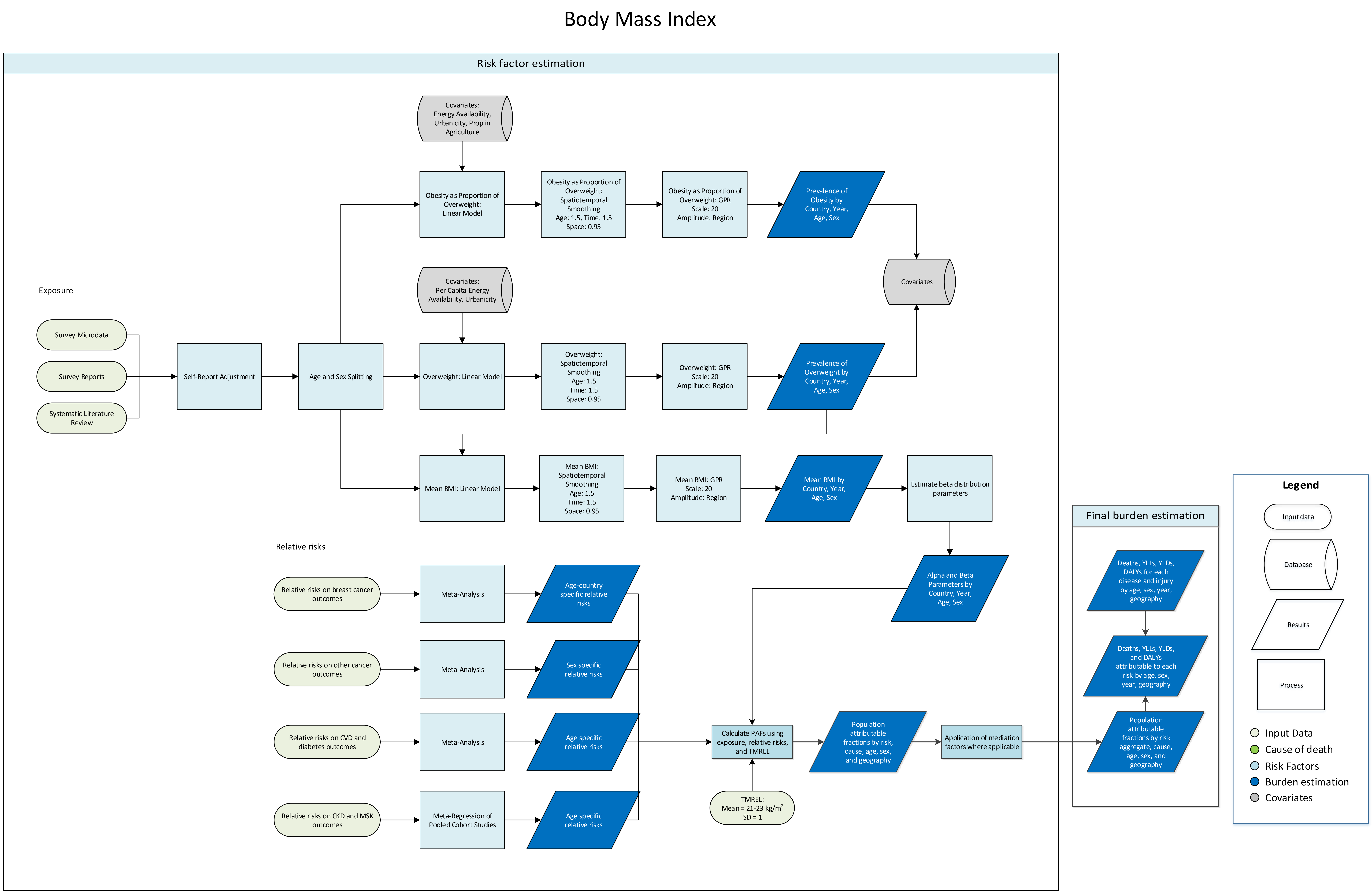

***Table S1.* Epidemiological evidence supporting causality between high body mass index (BMI) and disease endpoints.**
To evaluate the magnitude of the effect sizes, we evaluated the RR comparing the 75th percentile with the 25th percentile of the exposure distribution at the global level. RR=relative risk.

Risk	Outcome	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‡
Metabolic risks							
High body-mass index	Oesophageal cancer	8	0	No	Yes	Yes	Yes
High body-mass index	Colon and rectum cancer	38	0	No	Yes	Yes	Yes
High body-mass index	Liver cancer	34	0	No	Yes	Yes	Yes
High body-mass index	Gallbladder and biliary tract cancer	10	0	No	Yes	Yes	Yes
High body-mass index	Pancreatic cancer	20	0	No	Yes	Yes	Yes
High body-mass index	Breast cancer (Post-menopause)	44	2	No	Yes	Yes	Yes
High body-mass index	Breast cancer (Pre-menopause)	25	8	No	Yes	Yes	No
High body-mass index	Uterine cancer	37	0	No	Yes	Yes	Yes
High body-mass index	Ovarian cancer	31	3	No	Yes	Yes	Yes
High body-mass index	Kidney cancer	28	0	No	Yes	Yes	Yes
High body-mass index	Thyroid cancer	16	0	No	Yes	Yes	Yes
High body-mass index	Leukaemia	17	0	No	Yes	Yes	Yes
High body-mass index	Ischaemic heart disease	129	..	No	Yes	Yes	Yes
High body-mass index	Ischemic stroke	102	..	No	Yes	Yes	Yes
High body-mass index	Hemorrhagic stroke	129	..	No	Yes	Yes	Yes
High body-mass index	Hypertensive heart disease	85	..	No	Yes	Yes	Yes
High body-mass index	Diabetes mellitus	85	..	Yes	Yes	Yes	No
High body-mass index	Chronic kidney disease	57	..	No	Yes	Yes	No
High body-mass index	Osteoarthritis	32	0	No	Yes	Yes	Yes
High body-mass index	Low back pain	5	0	No	Yes	Yes	Yes

● (green) Yes
● (red) No

Footnotes

*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.

Table S2. Relative risks of high body mass index (BMI), by age and sex, for each disease endpoint

Risk - Outcome	Category / Units	Morbidity / Mortality	Sex	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55-59 years	60-64 years	65-69 years	70-74 years	75-79 years	80+ years
Oesophageal cancer	5 kg/m^2	Both	Male	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)	1·391 (1·076 to 1·758)
Oesophageal cancer	5 kg/m^2	Both	Female	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)	1·351 (1·012 to 1·745)
Colon and rectum cancer	5 kg/m^2	Both	Male	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)	1·177 (1·145 to 1·208)
Colon and rectum cancer	5 kg/m^2	Both	Female	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)	1·059 (1·031 to 1·083)
Gallbladder and biliary tract cancer	5 kg/m^2	Both	Male	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)	1·155 (1·033 to 1·282)
Gallbladder and biliary tract cancer	5 kg/m^2	Both	Female	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)	1·344 (1·223 to 1·478)
Pancreatic cancer	5 kg/m^2	Both	Male	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)	1·071 (0·999 to 1·154)
Pancreatic cancer	5 kg/m^2	Both	Female	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)	1·092 (1·037 to 1·144)
Breast cancer, post-menopausal	5 kg/m^2	Both	Both	1·149 (1·036 to 1·268)	1·149 (1·036 to 1·268)	1·149 (1·036 to 1·268)	1·149 (1·036 to 1·268)	1·149 (1·036 to 1·268)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)	1·348 (1·128 to 1·615)
Uterine cancer	5 kg/m^2	Both	Both	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)	1·613 (1·543 to 1·681)
Ovarian cancer	5 kg/m^2	Both	Both	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)	1·038 (0·998 to 1·077)
Kidney cancer	5 kg/m^2	Both	Male	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)	1·240 (1·171 to 1·313)
Kidney cancer	5 kg/m^2	Both	Female	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)	1·320 (1·254 to 1·395)
Thyroid cancer	5 kg/m^2	Both	Male	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)	1·221 (1·067 to 1·382)
Thyroid cancer	5 kg/m^2	Both	Female	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)	1·136 (1·094 to 1·178)
Leukaemia	5 kg/m^2	Both	Male	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)	1·086 (1·053 to 1·119)
Leukaemia	5 kg/m^2	Both	Female	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)	1·131 (1·061 to 1·208)
Ischaemic heart disease	5 kg/m^2	Both	Both	2·274 (1·257 to 3·686)	2·018 (1·296 to 3·109)	1·724 (1·532 to 1·932)	1·599 (1·418 to 1·785)	1·567 (1·457 to 1·680)	1·520 (1·417 to 1·631)	1·466 (1·372 to 1·557)	1·414 (1·324 to 1·504)	1·364 (1·287 to 1·448)	1·319 (1·242 to 1·400)	1·274 (1·187 to 1·365)	1·170 (1·091 to 1·253)
Ischaemic stroke	5 kg/m^2	Both	Both	2·472 (1·399 to 3·980)	2·235 (1·454 to 3·334)	1·979 (1·694 to 2·313)	1·826 (1·600 to 2·076)	1·733 (1·581 to 1·898)	1·635 (1·479 to 1·796)	1·543 (1·441 to 1·653)	1·455 (1·345 to 1·566)	1·380 (1·310 to 1·458)	1·304 (1·233 to 1·376)	1·228 (1·159 to 1·305)	1·068 (0·992 to 1·143)
Hemorrhagic stroke	5 kg/m^2	Both	Both	3·066 (1·750 to 5·337)	2·913 (1·860 to 4·399)	2·597 (1·974 to 3·387)	2·389 (1·869 to 3·002)	2·199 (1·821 to 2·673)	1·996 (1·625 to 2·419)	1·805 (1·573 to 2·060)	1·665 (1·437 to 1·933)	1·523 (1·377 to 1·684)	1·410 (1·265 to 1·571)	1·295 (1·162 to 1·439)	1·070 (0·928 to 1·220)
Hypertensive heart disease	5 kg/m^2	Both	Both	3·122 (1·588 to 5·502)	3·000 (1·748 to 4·912)	2·769 (1·814 to 4·217)	2·573 (1·741 to 3·647)	2·407 (1·716 to 3·296)	2·281 (1·597 to 3·189)	2·159 (1·499 to 3·039)	2·035 (1·451 to 2·822)	1·955 (1·342 to 2·700)	1·860 (1·296 to 2·617)	1·792 (1·169 to 2·553)	1·697 (1·067 to 2·620)
Diabetes mellitus	5 kg/m^2	Both	Both	3·547 (2·308 to 5·228)	3·455 (2·509 to 4·693)	3·349 (2·803 to 3·919)	3·160 (2·694 to 3·700)	2·864 (2·450 to 3·314)	2·624 (2·224 to 3·038)	2·417 (2·086 to 2·779)	2·215 (1·865 to 2·608)	2·046 (1·724 to 2·382)	1·896 (1·596 to 2·229)	1·740 (1·444 to 2·079)	1·461 (1·207 to 1·760)
Chronic kidney disease due to diabetes mellitus	5 kg/m^2	Both	Both			1·746 (1·053 to 2·748)	1·746 (1·053 to 2·748)	1·746 (1·053 to 2·748)	1·746 (1·053 to 2·748)	1·746 (1·053 to 2·748)	2·036 (1·298 to 3·056)	2·036 (1·298 to 3·056)	1·621 (1·061 to 2·380)	1·621 (1·061 to 2·380)	1·431 (0·800 to 2·404)
Chronic kidney disease due to hypertension	5 kg/m^2	Both	Both			1·763 (1·088 to 2·760)	1·763 (1·088 to 2·760)	1·763 (1·088 to 2·760)	1·763 (1·088 to 2·760)	1·763 (1·088 to 2·760)	2·044 (1·302 to 3·089)	2·044 (1·302 to 3·089)	1·605 (1·066 to 2·327)	1·605 (1·066 to 2·327)	1·437 (0·828 to 2·426)
Chronic kidney disease due to glomerulonephritis	5 kg/m^2	Both	Both			1·742 (1·019 to 2·791)	1·742 (1·019 to 2·791)	1·742 (1·019 to 2·791)	1·742 (1·019 to 2·791)	1·742 (1·019 to 2·791)	2·044 (1·254 to 3·155)	2·044 (1·254 to 3·155)	1·604 (1·108 to 2·255)	1·604 (1·108 to 2·255)	1·452 (0·851 to 2·350)
Chronic kidney disease due to other causes	5 kg/m^2	Both	Both			1·732 (1·047 to 2·684)	1·732 (1·047 to 2·684)	1·732 (1·047 to 2·684)	1·732 (1·047 to 2·684)	1·732 (1·047 to 2·684)	2·032 (1·214 to 3·105)	2·032 (1·214 to 3·105)	1·625 (1·068 to 2·368)	1·625 (1·068 to 2·368)	1·433 (0·776 to 2·345)
Low back pain	5 kg/m^2	Morbidity	Both	1·100 (1·073 to 1·126)	1·100 (1·073 to 1·127)	1·101 (1·076 to 1·128)	1·100 (1·074 to 1·126)	1·099 (1·075 to 1·123)	1·100 (1·075 to 1·128)	1·100 (1·075 to 1·126)	1·101 (1·077 to 1·126)	1·100 (1·075 to 1·126)	1·100 (1·076 to 1·124)	1·100 (1·075 to 1·124)	1·100 (1·074 to 1·125)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.

Country	SDI Level	1980				2015				1980				2015			
		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity	
		Males	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*
Afghanistan	Low SDI	**29.88 (27.41 - 32.59)**	**27.25 (24.88 - 29.28)**	**12.72 (10.9 - 14.59)**	**17.7 (15.61 - 20.11)**	**23.1 (20.94 - 25.37)**	**22.04 (21.08 - 22.95)**	**7.87 (6.81 - 8.95)**	**12.12 (11.14 - 13.14)**	**7.86 (5.8 - 10.17)**	**14.08 (11.18 - 17.28)**	**4.02 (2.77 - 5.58)**	**6.23 (4.65 - 8.19)**	**4.86 (3.71 - 6.29)**	**9.34 (7.24 - 11.59)**	**2.13 (1.47 - 2.99)**	**4.14 (2.94 - 5.53)**
Albania	High-middle SDI	33.96 (30.77 - 36.79)	27.45 (24.92 - 30.17)	5.77 (4.51 - 7.18)	7.97 (6.43 - 9.69)	49.98 (48 - 51.49)	35.52 (33.24 - 37.03)	11.79 (9.88 - 13.98)	14.89 (12.7 - 17.42)	10.53 (8.77 - 11.81)	11.46 (9.25 - 13.81)	6.97 (4.93 - 9.52)	7.29 (5.14 - 9.77)	18.5 (15.87 - 21.28)	13.6 (11.44 - 15.91)	7.71 (5.58 - 10.3)	7.1 (4.99 - 9.45)
Algeria	Middle SDI	12.5 (10.74 - 14.46)	16.39 (14.57 - 18.26)	2.85 (2.32 - 3.43)	10.21 (8.59 - 11.94)	32.08 (29.66 - 34.14)	21.92 (20.49 - 23.35)	18.06 (16.04 - 20.06)	32.66 (29.85 - 35.76)	2.46 (1.79 - 3.28)	5.23 (3.87 - 6.91)	0.46 (0.31 - 0.67)	1.25 (0.85 - 1.78)	11.04 (8.52 - 13.84)	12.95 (9.96 - 16.02)	3.83 (2.74 - 5.19)	6.17 (4.41 - 8.31)
American Samoa	High-middle SDI	32.44 (32.14 - 32.2)	23.14 (23.88 - 21.87)	45.24 (41.46 - 49.02)	62.22 (57.53 - 66.69)	30.49 (30.9 - 30.04)	21.29 (22.58 - 20.08)	55.33 (51.98 - 58.71)	68.35 (63.83 - 72.28)	17.53 (14.91 - 19.62)	19.31 (18.03 - 20.5)	29.37 (22.39 - 36.53)	35.93 (27.78 - 44.51)	19.65 (17.83 - 21.17)	20.08 (19.28 - 20.21)	37.97 (30.38 - 45.88)	42.9 (34.33 - 51.97)
Andorra	High SDI	38.41 (35.73 - 41.03)	30.01 (27.75 - 32.14)	6.99 (5.78 - 8.62)	8.27 (6.95 - 9.87)	26.8 (24.96 - 28.73)	30.12 (28 - 32.48)	12.49 (10.58 - 14.57)	8.94 (7.44 - 10.6)	7.8 (5.89 - 9.87)	7.84 (6.09 - 9.77)	7.87 (5.1 - 11.53)	6.88 (4.72 - 9.51)	7.67 (5.81 - 9.71)	9.75 (7.65 - 12.32)	10.59 (7.12 - 14.84)	8.76 (6.13 - 12.11)
Angola	Low-middle SDI	10.96 (10.18 - 11.83)	10.8 (9.71 - 12)	1.36 (1.08 - 1.72)	2.8 (2.34 - 3.34)	23.05 (22.07 - 23.74)	23.31 (21.82 - 24.9)	6.67 (5.49 - 8.07)	14.11 (12.43 - 16)	5.38 (4.26 - 6.59)	7.44 (5.81 - 9.16)	2.26 (1.53 - 3.29)	2.29 (1.59 - 3.18)	12.58 (10.57 - 14.91)	14.05 (11.61 - 16.85)	6.75 (4.84 - 9.1)	6.17 (4.58 - 8.16)
Antigua and Barbuda	High SDI	17.54 (15.48 - 19.49)	27.47 (25.3 - 29.77)	4.96 (4.2 - 5.85)	13.28 (11.82 - 14.9)	31.65 (29.49 - 33.45)	31.43 (30.13 - 32.91)	13.64 (11.89 - 15.53)	26.15 (23.91 - 28.34)	5.94 (4.77 - 7.28)	8.28 (6.84 - 10.1)	1.84 (1.31 - 2.54)	2.26 (1.68 - 2.93)	8.19 (6.67 - 10.1)	10.92 (9.26 - 12.79)	3.98 (2.88 - 5.45)	4.59 (3.44 - 6)
Argentina	High-middle SDI	42.05 (38.64 - 44.9)	32.25 (30.3 - 34.06)	17.59 (15.34 - 20.14)	21.33 (18.61 - 24.09)	43.51 (40.77 - 45.96)	33.43 (31.9 - 34.81)	20.94 (18.4 - 23.78)	25.14 (22.39 - 28.07)	16 (11.91 - 20.82)	13.18 (10.61 - 15.64)	5.51 (3.7 - 7.99)	4.99 (3.52 - 6.67)	20.74 (15.94 - 25.37)	14.82 (12.41 - 17.43)	7.18 (4.96 - 9.84)	5.53 (3.91 - 7.34)
Armenia	High-middle SDI	29.44 (27.3 - 31.38)	32.39 (31.23 - 33.72)	7.79 (6.41 - 9.48)	19.95 (18.17 - 21.73)	37.45 (36.28 - 38.32)	34.05 (33.17 - 34.55)	14.06 (11.91 - 16.53)	28.05 (26.22 - 30.25)	11.06 (8.86 - 13.26)	13.31 (11.04 - 15.8)	4.54 (3.11 - 6.27)	3.47 (2.59 - 4.61)	15.72 (12.67 - 18.37)	13.29 (11.2 - 15.47)	7.39 (5.23 - 10.04)	5.57 (4.24 - 7.16)
Australia	High SDI	41.96 (39.12 - 44.17)	26.34 (23.86 - 28.63)	15.69 (13.57 - 18.15)	18.28 (15.76 - 21.1)	42.12 (40.9 - 43.18)	28.13 (26.93 - 29.02)	26.02 (23.6 - 28.49)	30.74 (27.78 - 33.72)	13.7 (11.05 - 16.92)	13.86 (10.57 - 17.35)	3.92 (2.9 - 5.34)	4.03 (2.9 - 5.55)	17.93 (15.13 - 20.85)	16.51 (13.52 - 19.65)	7.8 (6 - 9.87)	7.54 (5.57 - 9.72)
Austria	High SDI	38.11 (35.9 - 39.96)	18.68 (17.37 - 19.67)	8.56 (7.21 - 10.11)	12.34 (10.63 - 14.18)	46.07 (44.28 - 47.66)	27.3 (26.1 - 28.66)	14.05 (12.07 - 16.23)	16.46 (14.38 - 18.58)	11.43 (8.27 - 14.7)	8.08 (6.02 - 10.64)	3.89 (2.26 - 6)	2.59 (1.56 - 3.95)	8.69 (6.72 - 10.89)	7.56 (5.88 - 9.65)	9.85 (6.83 - 13.61)	7.06 (4.87 - 9.76)
Azerbaijan	High-middle SDI	37.14 (34.57 - 39.39)	31.7 (30.67 - 32.76)	5.15 (4.18 - 6.27)	21.5 (19.61 - 23.42)	51.26 (49.83 - 52.91)	33.49 (33.26 - 33.63)	10.46 (8.77 - 12.3)	31.14 (29.29 - 32.92)	7.06 (5.47 - 8.48)	9.73 (8.13 - 11.52)	3.51 (2.28 - 4.94)	3.54 (2.69 - 4.56)	15.39 (12.97 - 18.16)	14.13 (11.88 - 16.87)	8.72 (6.35 - 11.57)	6.59 (5.04 - 8.33)
Bahrain	High-middle SDI	35.77 (33.35 - 37.92)	31.27 (29.68 - 32.57)	18.55 (16.46 - 20.73)	30.95 (28.04 - 33.99)	38.1 (36.72 - 38.91)	31.98 (31.28 - 32.61)	28.07 (25.84 - 30.67)	38.21 (35.29 - 41.22)	11.23 (8.73 - 14.06)	15.94 (12.91 - 19.1)	7.78 (5.59 - 10.2)	9.33 (7.02 - 12.21)	12.01 (9.39 - 14.93)	12.6 (9.9 - 15.69)	7.69 (5.56 - 10.35)	7.82 (5.88 - 10.41)
Bangladesh	Low-middle SDI	5.07 (4 - 6.3)	5.74 (4.56 - 7.13)	0.51 (0.36 - 0.73)	0.64 (0.47 - 0.85)	14.84 (12.57 - 17.31)	15.81 (13.37 - 18.36)	2.28 (1.76 - 3)	3.65 (2.86 - 4.54)	1.4 (0.99 - 2)	1.41 (0.95 - 2.04)	0.79 (0.47 - 1.25)	0.77 (0.45 - 1.28)	2.48 (1.76 - 3.48)	2.88 (1.97 - 3.98)	1.25 (0.79 - 1.87)	1.24 (0.76 - 1.91)
Barbados	High-middle SDI	33.23 (31.09 - 35.64)	40.83 (39.81 - 41.93)	12.33 (10.66 - 14.05)	25.17 (22.96 - 27.35)	34.19 (32.64 - 35.75)	31.53 (30.97 - 32.03)	22.33 (20.56 - 24.19)	40.14 (38.06 - 42.31)	12.61 (10.5 - 15.07)	15.87 (13.87 - 17.84)	6.84 (5.02 - 9.05)	9.56 (7.63 - 11.98)	11.47 (9.43 - 13.65)	19.31 (17.18 - 21.52)	10.73 (8.06 - 13.74)	11.09 (8.76 - 13.56)
Belarus	High SDI	38.49 (37.34 - 39.66)	30.51 (29.67 - 31.08)	12.14 (10.55 - 13.72)	21.55 (19.64 - 23.69)	43.62 (43.06 - 44.29)	30.72 (30.16 - 31.16)	18.44 (16.33 - 20.58)	27.07 (24.8 - 29.37)	8.15 (6.79 - 9.58)	8.92 (7.37 - 10.73)	2.15 (1.56 - 2.98)	2.53 (1.85 - 3.4)	11.83 (10.09 - 13.85)	11.16 (9.43 - 13.15)	3.44 (2.47 - 4.61)	3.59 (2.64 - 4.61)
Belgium	High SDI	42.43 (40.03 - 44.86)	26.83 (25.23 - 28.42)	8.71 (7.22 - 10.34)	12.98 (11.01 - 15.11)	44.7 (42.84 - 46.27)	27.7 (26.43 - 28.52)	14.09 (12.17 - 16.07)	18.28 (16.07 - 20.71)	15.05 (11.05 - 19.9)	10.54 (7.98 - 13.74)	3.25 (1.98 - 4.95)	4.17 (2.77 - 6.07)	15.17 (11.43 - 19.44)	13.1 (10.25 - 16.47)	5.02 (3.16 - 7.4)	4.29 (2.83 - 6.29)
Belize	Middle SDI	28.38 (26.28 - 30.52)	34.81 (33.69 - 35.79)	11.84 (10.31 - 13.48)	28.85 (26.39 - 31.16)	35.15 (33.13 - 36.79)	33.9 (33.16 - 34.35)	19.09 (17.15 - 21.17)	37.79 (35.31 - 40.36)	10.02 (7.9 - 12.05)	14.71 (12.31 - 17.05)	4.11 (2.91 - 5.57)	6.31 (4.94 - 7.89)	11.26 (9.14 - 13.54)	14.49 (12.33 - 16.88)	5.3 (3.88 - 6.96)	7.73 (6.02 - 9.84)
Benin	Low SDI	7.86 (6.69 - 9.11)	11.05 (9.7 - 12.59)	0.95 (0.71 - 1.24)	3.12 (2.42 - 3.91)	26.18 (24.27 - 28.25)	24.53 (23.38 - 25.79)	10.71 (8.8 - 12.81)	15.34 (13.21 - 17.58)	2.24 (1.58 - 3.1)	2.73 (2 - 3.67)	0.58 (0.35 - 0.92)	0.55 (0.32 - 0.9)	10.31 (8.05 - 12.63)	13.8 (11.09 - 16.43)	6.26 (4.14 - 8.86)	6.27 (4.06 - 8.98)
Bermuda	High SDI	24.05 (21.73 - 26.48)	29.18 (27.19 - 31.12)	7.19 (6.13 - 8.28)	15.41 (13.77 - 17.07)	38.93 (36.68 - 40.74)	32.51 (31.11 - 33.31)	17.15 (15.28 - 19.24)	29.45 (27.05 - 31.86)	9.53 (7.6 - 11.48)	10.43 (8.65 - 12.48)	2.83 (2.01 - 3.86)	2.87 (2.17 - 3.8)	13.49 (10.85 - 16.04)	14.24 (12.16 - 16.7)	6.2 (4.51 - 8.17)	5.95 (4.53 - 7.62)
Bhutan	Low-middle SDI	10.89 (8.83 - 13.34)	22.31 (18.7 - 26)	1.32 (0.96 - 1.76)	3.73 (2.88 - 4.8)	25.65 (24.64 - 26.78)	37.26 (36.04 - 38.44)	5.08 (4.72 - 5.49)	10.52 (9.86 - 11.25)	2.47 (1.73 - 3.43)	4.26 (2.86 - 5.73)	1.04 (0.64 - 1.6)	1.49 (0.92 - 2.29)	7.77 (5.5 - 10.28)	10.12 (7.6 - 12.99)	3.54 (2.18 - 5.18)	4.16 (2.73 - 6.16)
Bolivia	Middle SDI	25.3 (24.22 - 26.2)	29.79 (28.66 - 30.85)	11.74 (9.76 - 14.08)	12.22 (11.17 - 13.31)	36.5 (35.51 - 37.51)	37.01 (36.7 - 37.35)	13.37 (11.06 - 15.91)	25.11 (23.6 - 26.61)	11.88 (10.32 - 13.38)	15.75 (14.13 - 17.62)	3.08 (2.22 - 4.27)	3.34 (2.69 - 4.03)	15.34 (13.31 - 17.27)	20.95 (18.7 - 23.23)	3.72 (2.68 - 5.09)	4.52 (3.67 - 5.47)
Bosnia and Herzegovina	High-middle SDI	31.66 (29.22 - 34.11)	27.58 (25.83 - 29.3)	7.21 (5.79 - 8.71)	11.52 (9.54 - 13.75)	43.58 (41.62 - 45.16)	31.89 (30.21 - 33.07)	13.85 (11.51 - 16.25)	18.32 (15.82 - 21.18)	4.78 (3.87 - 5.89)	7.05 (5.45 - 8.57)	2.41 (1.5 - 3.61)	3.42 (2.22 - 5.04)	9.43 (7.99 - 10.95)	11.34 (9.24 - 13.75)	6.29 (4.33 - 8.68)	6.82 (4.72 - 9.21)
Botswana	Middle SDI	5.45 (4.4 - 6.64)	7.43 (6.75 - 8.21)	1.58 (1.16 - 2.1)	9.86 (8.71 - 11.2)	14.42 (12.35 - 16.57)	10.38 (9.76 - 11.04)	7.99 (6.56 - 9.64)	26.36 (24.18 - 28.62)	3.86 (2.73 - 5.28)	3.92 (3.24 - 4.62)	1.39 (0.82 - 2.28)	1.51 (1.07 - 2.05)	10.52 (7.88 - 13.23)	8.72 (7.82 - 9.9)	6.01 (3.98 - 8.73)	6.1 (4.6 - 7.8)
Brazil	Middle SDI	26.3 (25.38 - 27.19)	28.25 (27.61 - 28.82)	6.41 (5.84 - 7.07)	12.22 (11.44 - 13.08)	37.59 (37.3 - 37.67)	33.25 (33.1 - 33.35)	18.95 (17.98 - 20.11)	25.42 (24.48 - 26.46)	7.81 (7.08 - 8.53)	9.46 (8.73 - 10.26)	2.12 (1.8 - 2.51)	2.42 (2.13 - 2.77)	17.53 (16.65 - 18.41)	15.66 (14.59 - 16.87)	9.8 (8.61 - 11.14)	8.12 (7.25 - 9)
Brunei	High SDI	16.83 (15.63 - 17.9)	20.51 (18.93 - 21.92)	2.15 (1.65 - 2.76)	4.98 (4.16 - 5.97)	25.6 (24.54 - 26.38)	24.07 (22.46 - 25.64)	5.87 (4.61 - 7.38)	8.3 (6.99 - 9.62)	5.19 (4.38 - 6.01)	7.61 (6.17 - 9.25)	1.97 (1.38 - 2.78)	2.21 (1.5 - 3.18)	9.64 (8.51 - 10.75)	11.71 (9.83 - 13.46)	4.87 (3.37 - 6.69)	4.82 (3.38 - 6.68)
Bulgaria	High-middle SDI	49.09 (48.68 - 49.15)	30.65 (30.04 - 31.86)	21 (17.77 - 24.55)	24.1 (20.78 - 27.31)	44.5 (42.55 - 46.13)	29.41 (28.3 - 30.34)	13.5 (11.62 - 15.78)	18.33 (15.96 - 20.79)	23.89 (20.99 - 26.36)	15.96 (13.44 - 18.41)	10.21 (7.26 - 13.69)	8.12 (5.68 - 11.05)	19.11 (16.13 - 21.89)	14.97 (11.95 - 17.58)	6.65 (4.53 - 9.3)	6.04 (4.24 - 8.08)
Burkina Faso	Low SDI	2.52 (2.1 - 3)	4.37 (3.72 - 5.1)	0.14 (0.1 - 0.19)	0.42 (0.32 - 0.54)	21.2 (19.2 - 23.12)	20.1 (18.6 - 21.87)	5.2 (4.24 - 6.17)	9.6 (8.06 - 11.16)	1.54 (1.08 - 2.13)	1.99 (1.42 - 2.75)	0.43 (0.25 - 0.69)	0.43 (0.25 - 0.69)	9.16 (7 - 11.51)	6.84 (5.29 - 8.47)	4.98 (3.33 - 7.09)	4.45 (2.94 - 6.27)
Burundi	Low SDI	6.83 (5.27 - 8.94)	10.03 (8.51 - 11.6)	1.64 (0.9 - 2.67)	3.98 (2.96 - 5.25)	3.68 (2.62 - 4.94)	7.07 (6.03 - 8.23)	0.51 (0.27 - 0.89)	2.13 (1.59 - 2.79)	3.35 (1.91 - 5.18)	4.24 (3.04 - 5.96)	1.09 (0.5 - 2.05)	0.94 (0.54 - 1.58)	3.13 (1.86 - 4.79)	5.17 (3.68 - 7.13)	0.72 (0.31 - 1.33)	0.81 (0.45 - 1.39)
Cambodia	Low-middle SDI	5.76 (4.66 - 7.08)	8.63 (7.35 - 9.99)	0.46 (0.34 - 0.63)	1.22 (0.93 - 1.61)	13.58 (11.72 - 15.67)	15.23 (13.71 - 16.96)	1.75 (1.38 - 2.15)	2.92 (2.39 - 3.53)	1.22 (0.86 - 1.72)	1.52 (1.06 - 2.03)	0.52 (0.32 - 0.82)	0.64 (0.39 - 0.98)	2.5 (1.75 - 3.31)	2.55 (1.82 - 3.38)	1.25 (0.8 - 1.82)	1.19 (0.75 - 1.72)
Cameroon	Low-middle SDI	17.94 (15.88 - 20.31)	23.38 (21.25 - 25.61)	3.07 (2.37 - 3.87)	10.16 (8.3 - 12.12)	30.12 (28.09 - 32.22)	27.71 (26.15 - 28.79)	10.92 (8.93 - 13.04)	21.95 (19.33 - 24.74)	5.65 (4.14 - 7.48)	7.88 (5.93 - 10.06)	1.52 (0.91 - 2.42)	1.68 (1.07 - 2.5)	10.21 (7.55 - 13.17)	14.37 (11.06 - 17.67)	4.04 (2.61 - 5.73)	3.98 (2.64 - 5.64)
Canada	High SDI	41.62 (40.03 - 43.01)	26.56 (25.55 - 27.77)	10.93 (8.9 - 13.02)	13.29 (11.43 - 15.33)	42.65 (42.12 - 43.18)	30.65 (29.83 - 31.25)	19.79 (17.18 - 22.59)	20.77 (18.71 - 23)	12.31 (10.02 - 14.82)	10.78 (9.01 - 12.73)	5.15 (3.58 - 7.14)	5.14 (3.68 - 6.93)	15.12 (13.44 - 16.94)	12.73 (10.95 - 14.49)	11.88 (8.7 - 15.17)	9.84 (7.62 - 12.21)
Cape Verde	Low-middle SDI	8.27 (7.09 - 9.72)	15.35 (13.34 - 17.33)	1.03 (0.77 - 1.33)	3.93 (3.1 - 4.92)	26.91 (24.31 - 29.2)	28.34 (26.72 - 30.04)	8.1 (6.61 - 9.81)	16.51 (13.84 - 19.31)	2.08 (1.49 - 2.86)	4.51 (3.33 - 6.02)	0.54 (0.32 - 0.86)	1.04 (0.65 - 1.6)	8.62 (6.8 - 10.91)	11.91 (9.56 - 14.46)	3.83 (2.51 - 5.64)	5.11 (3.34 - 7.39)
Central African Republic	Low SDI	18.26 (17.51 - 18.94)	11.99 (10.71 - 13.4)	5.1 (4.17 - 6.22)	2.59 (2.11 - 3.23)	13.83 (13.02 - 14.46)	15.98 (14.75 - 17.26)	4.22 (3.52 - 4.94)	8.41 (7.17 - 9.83)	9.87 (7.89 - 11.76)	8.64 (7.03 - 10.53)	5.56 (3.91 - 7.59)	3.45 (2.32 - 4.83)	5.62 (4.4 - 6.97)	6.96 (5.56 - 8.45)	1.42 (0.95 - 2.06)	1.9 (1.28 - 2.72)
Chad	Low SDI	10.72 (9.31 - 12.43)	9.21 (8.01 - 10.48)	2.1 (1.62 - 2.65)	1.96 (1.54 - 2.49)	22.07 (20.12 - 23.97)	20.25 (18.54 - 21.57)	8.78 (7.22 - 10.44)	13.97 (12.05 - 16.27)	2.66 (1.93 - 3.46)	3.24 (2.45 - 4.27)	0.78 (0.47 - 1.22)	0.81 (0.49 - 1.26)	5.83 (4.28 - 7.74)	5.81 (4.27 - 7.48)	2.52 (1.59 - 3.78)	2.36 (1.52 - 3.5)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.

		1980				2015				1980				2015			
Country	SDI Level	Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity	
		Males	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*
Chile	High-middle SDI	41.36 (38.23 - 44.54)	33.61 (31.56 - 35.26)	16 (13.81 - 18.23)	22.84 (20.12 - 25.56)	47.27 (45.16 - 48.98)	35.44 (34.44 - 36.32)	21.08 (18.74 - 23.46)	28.57 (26.12 - 31.25)	13.8 (10.42 - 17.66)	13.74 (11.62 - 16.1)	7.1 (4.7 - 9.93)	6.84 (4.95 - 9.08)	25.74 (20.53 - 30.82)	15.4 (12.88 - 17.73)	10.66 (7.72 - 14.24)	10.14 (7.75 - 12.99)
China	Middle SDI	5.23 (5.05 - 5.43)	9.28 (9.01 - 9.57)	0.33 (0.3 - 0.36)	0.9 (0.83 - 0.98)	25.71 (25.37 - 26.05)	22.78 (22.51 - 23.07)	5.02 (4.8 - 5.26)	5.51 (5.31 - 5.73)	2.54 (2.39 - 2.7)	2.87 (2.71 - 3.05)	0.8 (0.7 - 0.92)	0.83 (0.73 - 0.95)	12.34 (11.76 - 12.92)	9.82 (9.46 - 10.23)	5.91 (5.36 - 6.46)	4.24 (3.81 - 4.69)
Colombia	High-middle SDI	17.83 (15.34 - 20.42)	26.84 (24.4 - 29.59)	3.58 (2.68 - 4.74)	9 (7.33 - 10.82)	36.72 (34.53 - 38.42)	34.32 (33.01 - 35.55)	13.68 (11.44 - 16.02)	21.05 (18.57 - 23.63)	5 (3.55 - 6.63)	8.63 (6.37 - 11.46)	0.81 (0.46 - 1.3)	0.86 (0.54 - 1.33)	9.92 (7.45 - 12.69)	12.4 (9.54 - 15.31)	3.14 (2.01 - 4.63)	3.24 (2.13 - 4.75)
Comoros	Low SDI	13.45 (10.75 - 16.19)	17.48 (15.18 - 19.87)	3.93 (2.25 - 6.12)	4.7 (3.42 - 6.22)	17.1 (13.65 - 20.6)	25.63 (23.43 - 27.76)	4.5 (2.73 - 6.79)	12.32 (9.55 - 15.33)	9.71 (6.37 - 13.73)	12.07 (8.77 - 15.44)	3.93 (1.92 - 7.13)	2.83 (1.67 - 4.44)	10.66 (7.02 - 14.39)	14.78 (11.05 - 19.05)	4.33 (2.13 - 8.24)	4.05 (2.27 - 6.46)
Congo	Low-middle SDI	18.78 (17.82 - 19.74)	16.42 (14.86 - 18.03)	2.93 (2.33 - 3.62)	6.21 (5.27 - 7.23)	26.98 (26.01 - 27.89)	22.36 (21.17 - 23.56)	6.03 (4.9 - 7.27)	14.57 (12.99 - 16.23)	4.24 (3.37 - 5.24)	8.87 (7.1 - 11.02)	2.6 (1.78 - 3.68)	2.21 (1.56 - 3.1)	5.24 (4.28 - 6.43)	8.93 (6.85 - 10.9)	3.28 (2.37 - 4.5)	3 (2.11 - 4.14)
Costa Rica	High-middle SDI	25.43 (22.2 - 28.78)	28.52 (25.97 - 31.24)	5.56 (4.25 - 7.2)	12.66 (10.39 - 15.13)	42.82 (40.86 - 44.57)	35.2 (34.05 - 36.28)	15.78 (12.63 - 18.96)	26.11 (22.61 - 29.67)	8.08 (6.33 - 9.72)	9.18 (6.99 - 11.68)	3.66 (2.26 - 5.75)	3.85 (2.57 - 5.36)	17.39 (14.23 - 20.31)	17.71 (14.28 - 21.45)	9.57 (6.34 - 13.44)	9.38 (6.56 - 12.57)
Cote d'Ivoire	Low SDI	12.05 (10.4 - 13.79)	13.93 (12.13 - 15.85)	1.35 (1.02 - 1.71)	4.52 (3.56 - 5.5)	26.24 (23.77 - 28.8)	23.27 (21.39 - 25.28)	5.05 (3.99 - 6.33)	10.6 (8.79 - 12.52)	4.49 (3.23 - 6.12)	6.53 (4.93 - 8.37)	1.38 (0.82 - 2.12)	1.78 (1.13 - 2.72)	8 (5.99 - 10.53)	10.62 (7.92 - 13.51)	2.29 (1.47 - 3.45)	2.43 (1.58 - 3.6)
Croatia	High-middle SDI	40.53 (38.67 - 41.93)	29.38 (27.65 - 31.37)	13.17 (10.8 - 15.85)	13.61 (11.49 - 15.89)	46.7 (45.28 - 47.8)	31.27 (30.07 - 32.38)	16.42 (14.06 - 19.05)	14.44 (12.35 - 16.54)	12.98 (10.86 - 15.49)	7.4 (5.74 - 9.37)	3.62 (2.51 - 5.08)	2 (1.37 - 2.9)	18.42 (15.82 - 20.91)	10.62 (8.56 - 13.14)	7.06 (4.88 - 9.68)	4.31 (3.02 - 5.78)
Cuba	High-middle SDI	24.25 (23.21 - 25.54)	26.59 (26.04 - 26.92)	6.71 (5.93 - 7.46)	18.45 (16.88 - 20.07)	37.44 (34.96 - 39.61)	29.65 (28.41 - 30.78)	14.71 (13.01 - 16.58)	30.26 (27.79 - 32.67)	8.14 (6.49 - 9.97)	10.73 (9.06 - 12.79)	3.29 (2.27 - 4.47)	4.66 (3.51 - 6.03)	11.7 (9.57 - 14.37)	14.59 (12.46 - 17.24)	6.38 (4.69 - 8.47)	8.67 (6.71 - 10.81)
Cyprus	High SDI	44.54 (42.58 - 46.61)	27.93 (26.8 - 29.28)	12.6 (10.52 - 14.89)	16.62 (14.27 - 19.12)	47.29 (45.63 - 48.57)	28.67 (27.5 - 29.78)	16.44 (13.89 - 19.13)	20.47 (17.69 - 23.24)	12.92 (9.5 - 16.5)	11.55 (8.66 - 14.82)	4.39 (2.72 - 6.61)	4.46 (2.85 - 6.38)	17.87 (13.8 - 21.76)	15.47 (11.9 - 19.45)	7.68 (4.96 - 11.34)	6.64 (4.54 - 9.13)
Czech Republic	High SDI	47.12 (45.69 - 48.07)	32.68 (30.74 - 34.11)	16.04 (13.5 - 18.9)	18.25 (15.65 - 21.21)	52.45 (51.01 - 53.38)	31.22 (30.22 - 32.33)	13.46 (11.54 - 15.72)	14.99 (13.05 - 16.99)	14.65 (11.85 - 17.48)	10.54 (8.24 - 12.94)	3.52 (2.29 - 5.19)	2.29 (1.56 - 3.38)	17 (14.26 - 19.78)	11.21 (8.79 - 13.84)	4.79 (3.27 - 6.69)	3.63 (2.52 - 5.14)
Democratic Republic of the Congo	Low SDI	20.5 (19.64 - 21.23)	16.77 (15.22 - 18.36)	5.56 (4.6 - 6.66)	7.12 (6.06 - 8.25)	10.72 (10.09 - 11.2)	12.35 (11.23 - 13.82)	2.61 (2.12 - 3.23)	4.03 (3.38 - 4.72)	7.44 (5.95 - 8.92)	8.18 (6.32 - 10.02)	4.23 (2.9 - 5.95)	2.47 (1.73 - 3.46)	4.47 (3.51 - 5.44)	6.33 (5.07 - 7.69)	2.06 (1.41 - 2.91)	1.81 (1.22 - 2.55)
Denmark	High SDI	40.44 (37.8 - 43.1)	20.71 (19.17 - 22.37)	6.6 (5.52 - 7.89)	8.52 (7.01 - 10.07)	46.74 (45.31 - 47.95)	24.22 (23.32 - 25.05)	15.23 (13.46 - 17.11)	19.38 (17.44 - 21.45)	14.89 (11.19 - 18.9)	11.75 (8.94 - 15.12)	2.74 (1.62 - 4.23)	2.4 (1.47 - 3.44)	18.78 (14.85 - 23.54)	15.6 (12.14 - 19.43)	4.98 (3.24 - 7.28)	5.58 (3.88 - 7.83)
Djibouti	Low-middle SDI	9.69 (7.34 - 12.24)	13.15 (11.17 - 15.22)	2.28 (1.29 - 3.83)	3.33 (2.43 - 4.48)	25.31 (22.03 - 28.28)	27.13 (25.52 - 28.47)	9.8 (6.35 - 13.76)	19.43 (15.81 - 23.29)	4.82 (3.05 - 7.33)	8.75 (6.12 - 11.42)	2.05 (0.96 - 3.71)	3.61 (2.11 - 5.66)	11.63 (8.16 - 15.55)	15.49 (12.52 - 19.37)	7.38 (3.93 - 11.58)	10.54 (6.87 - 15.1)
Dominica	High-middle SDI	18.47 (16.45 - 20.63)	33.2 (31.85 - 34.39)	5.98 (5.07 - 6.95)	26.22 (24.03 - 28.51)	27.63 (25.64 - 29.87)	32.89 (31.94 - 33.48)	12.17 (10.62 - 13.86)	37.26 (34.96 - 39.58)	7.13 (5.68 - 8.84)	12.69 (10.88 - 14.72)	2.96 (2.08 - 3.96)	6.83 (5.28 - 8.66)	10.85 (8.82 - 12.95)	16.07 (14.07 - 18.08)	5.96 (4.35 - 8.07)	11.55 (9.08 - 14.14)
Dominican Republic	High-middle SDI	26.32 (23.88 - 28.67)	25.61 (23.59 - 27.6)	7.89 (6.79 - 9.14)	12.85 (11.46 - 14.37)	35.96 (34.85 - 37.23)	32.51 (31.63 - 33.35)	16.02 (14.67 - 17.43)	25.79 (24.11 - 27.47)	5.48 (4.24 - 6.94)	8.1 (6.59 - 9.82)	1.33 (0.92 - 1.81)	1.89 (1.4 - 2.45)	11.18 (8.96 - 13.4)	14.51 (12.25 - 16.8)	4.33 (3.19 - 5.7)	6.17 (4.73 - 7.86)
Ecuador	High-middle SDI	26.75 (25.87 - 27.22)	29.14 (28.66 - 29.68)	16.3 (13.85 - 19.13)	19.9 (18.5 - 21.45)	43.27 (43.27 - 43.17)	34.93 (34.92 - 34.89)	19.74 (17.58 - 21.96)	28.43 (27.05 - 29.89)	6.26 (5.33 - 6.97)	15.02 (13.57 - 16.79)	3.85 (2.85 - 5)	3.6 (2.92 - 4.37)	13.48 (11.93 - 15.16)	17.39 (15.61 - 19.07)	6.13 (4.64 - 7.83)	6.19 (5.09 - 7.37)
Egypt	Middle SDI	34.16 (31.34 - 36.86)	33.14 (31.45 - 34.78)	11.22 (9.76 - 12.81)	23.81 (21.3 - 26.37)	41.83 (40.59 - 43.11)	32.36 (32.11 - 32.57)	27.03 (24.74 - 29.33)	42.97 (40.28 - 45.57)	10.01 (7.52 - 12.92)	15.09 (11.81 - 18.81)	2.76 (1.92 - 3.79)	4.27 (3.08 - 5.85)	17.08 (13.5 - 20.57)	18.34 (15.33 - 21.95)	9.43 (6.9 - 12.17)	11.03 (8.38 - 13.93)
El Salvador	Middle SDI	17.23 (14.57 - 19.95)	27.1 (24.59 - 29.25)	4.24 (3.21 - 5.45)	11.74 (9.62 - 14.13)	39.99 (38.23 - 41.19)	36.32 (35.71 - 36.73)	17.89 (14.57 - 21.48)	29.99 (26.7 - 33.5)	4.14 (2.99 - 5.55)	9.08 (6.72 - 11.75)	0.76 (0.45 - 1.21)	1.62 (0.99 - 2.46)	9.74 (7.26 - 12.1)	15.87 (12.49 - 19.63)	3.15 (1.95 - 4.65)	5.65 (3.81 - 7.86)
Equatorial Guinea	Middle SDI	11.22 (10.46 - 11.94)	11.91 (10.74 - 13.26)	1.58 (1.24 - 1.98)	3.44 (2.86 - 4.06)	26.22 (25.32 - 26.63)	24.71 (23.05 - 26.03)	10.2 (8.52 - 12.13)	18.75 (16.7 - 21.09)	7.61 (6.17 - 9.12)	10.72 (8.52 - 13.24)	4.26 (2.9 - 5.87)	4.67 (3.3 - 6.28)	17.8 (15.45 - 19.79)	18.31 (15.93 - 20.31)	14.25 (10.86 - 17.95)	13.09 (10.14 - 16.52)
Eritrea	Low SDI	4.46 (3.33 - 5.65)	8.02 (6.72 - 9.32)	6.75 (4.57 - 9.44)	2.33 (1.71 - 3.19)	2.81 (2.17 - 3.4)	9.23 (7.71 - 10.79)	4.11 (2.79 - 6.11)	2.46 (1.79 - 3.26)	2.13 (1.3 - 3.29)	3.24 (2.27 - 4.55)	1.23 (0.59 - 2.15)	0.78 (0.43 - 1.34)	0.91 (0.56 - 1.62)	2.74 (1.92 - 3.8)	0.91 (0.47 - 1.57)	0.58 (0.32 - 0.98)
Estonia	High SDI	37.48 (36.2 - 38.71)	30.06 (29.13 - 30.65)	12.17 (10.62 - 13.69)	19.25 (17.39 - 21.28)	40.03 (39.43 - 40.58)	28.22 (27.76 - 28.73)	20.03 (18.01 - 22.02)	25.7 (23.62 - 27.71)	9.73 (8.13 - 11.37)	8.99 (7.43 - 10.79)	2.8 (2.07 - 3.74)	2.44 (1.75 - 3.24)	16.27 (14.06 - 18.62)	10.08 (8.48 - 11.59)	6.24 (4.75 - 8.03)	5.02 (3.81 - 6.52)
Ethiopia	Low SDI	5.8 (4.24 - 7.78)	6.13 (5.05 - 7.33)	1.19 (0.63 - 1.95)	1.18 (0.81 - 1.6)	11.79 (9.62 - 14.18)	12.58 (11.16 - 14.19)	2.66 (1.66 - 3.94)	4.79 (3.7 - 6.14)	2.15 (1.22 - 3.36)	3.67 (2.59 - 5.15)	0.99 (0.47 - 1.91)	1.01 (0.57 - 1.66)	3.35 (1.86 - 5.35)	5.52 (4.03 - 7.24)	1.62 (0.74 - 3.04)	2.02 (1.21 - 3.24)
Federated States of Micronesia	Middle SDI	26.21 (23.08 - 28.92)	26.68 (24.73 - 28.79)	12.47 (10.56 - 14.78)	24.8 (20.83 - 29.19)	31.14 (28.55 - 33.37)	31.95 (30.89 - 32.32)	17.56 (15.15 - 20.26)	34.97 (30.3 - 39.67)	8.44 (6.22 - 11.18)	12.4 (9.22 - 16.03)	5.63 (3.62 - 8.42)	9.74 (6.18 - 14.26)	8.89 (6.78 - 11.76)	13.56 (10.12 - 17.55)	5.84 (3.89 - 8.37)	10.71 (6.87 - 15.05)
Fiji	High-middle SDI	22.44 (19.7 - 25.38)	24.65 (22.15 - 27.26)	8.94 (7.23 - 10.88)	19.27 (15.71 - 23.04)	28.25 (25.72 - 30.77)	24.83 (23.33 - 26.56)	16.77 (14.33 - 19.4)	29.93 (25.31 - 34.7)	8.72 (6.26 - 11.65)	11.25 (8.13 - 14.81)	2.59 (1.54 - 3.98)	5.16 (2.93 - 7.96)	13.73 (10.42 - 17.63)	14.43 (10.79 - 18.19)	6.17 (3.92 - 8.99)	8.1 (5.17 - 11.79)
Finland	High SDI	45.68 (43.85 - 47.37)	28.54 (27.44 - 29.58)	12.94 (11.09 - 14.91)	16 (13.61 - 18.68)	52.39 (51.12 - 53.13)	30.29 (29.55 - 31.01)	17.7 (15.63 - 20.01)	24.15 (21.59 - 26.77)	19.25 (14.43 - 24.53)	13.23 (9.79 - 17.25)	4.65 (2.91 - 6.81)	2.78 (1.81 - 4.05)	20.61 (16.57 - 24.8)	15.07 (11.35 - 18.72)	8.19 (5.48 - 11.69)	5 (3.38 - 7.05)
France	High SDI	35.89 (33.62 - 38.41)	19.46 (17.88 - 21.41)	7.41 (6.12 - 8.82)	8.17 (6.79 - 9.63)	44.25 (42.74 - 45.52)	27.21 (25.99 - 28.42)	13.68 (12.22 - 15.24)	17.32 (15.58 - 19.12)	11.27 (8.21 - 14.71)	10.27 (7.54 - 12.89)	2.42 (1.44 - 3.86)	2.21 (1.43 - 3.16)	18.13 (13.94 - 22.92)	14.25 (10.92 - 18.18)	4.73 (3.04 - 6.76)	4.97 (3.33 - 6.86)
Gabon	Middle SDI	18.2 (17.22 - 19.25)	18.93 (17.22 - 20.55)	3.84 (3.07 - 4.66)	7.65 (6.57 - 8.82)	32.29 (32.27 - 32.51)	29.81 (28.91 - 30.17)	13.42 (11.28 - 15.5)	28.45 (26.24 - 30.93)	4.2 (3.27 - 5.38)	7.08 (5.52 - 8.82)	1.25 (0.81 - 1.8)	1.41 (0.96 - 1.93)	10.78 (8.89 - 12.85)	15.24 (12.46 - 18.15)	4.86 (3.51 - 6.63)	4.33 (3.13 - 5.76)
Georgia	High-middle SDI	35.54 (33.52 - 37.27)	29.74 (28.31 - 31.08)	8.56 (6.95 - 10.37)	15.5 (13.91 - 17.17)	43.45 (42.59 - 44.29)	31.25 (30.3 - 32.22)	15.76 (13.22 - 18.44)	23.33 (21.25 - 25.41)	12.38 (9.98 - 14.9)	11.08 (9.41 - 12.83)	4.2 (2.83 - 5.97)	4.28 (3.2 - 5.5)	17.68 (14.82 - 20.59)	13.78 (11.79 - 15.86)	8.46 (5.95 - 11.32)	7.85 (6.15 - 9.77)
Germany	High SDI	48.14 (45.38 - 50.74)	26.06 (24.47 - 27.72)	8.46 (7.07 - 10.07)	11.09 (9.33 - 13.03)	48.83 (48.09 - 49.34)	27.58 (26.75 - 28.14)	19.01 (16.89 - 21.25)	22.6 (20.15 - 25.1)	14.34 (10.58 - 18.3)	10.95 (7.99 - 14.39)	2.87 (1.83 - 4.41)	2.75 (1.8 - 4.01)	18.01 (13.88 - 22.39)	14.48 (11.18 - 18.63)	5.97 (4 - 8.4)	5.11 (3.4 - 7.13)
Ghana	Low-middle SDI	5.77 (4.87 - 6.86)	9.82 (8.5 - 11.36)	0.72 (0.54 - 0.95)	2.76 (2.17 - 3.49)	21.84 (19.56 - 23.94)	26.91 (25.62 - 28.01)	7.33 (6.16 - 8.67)	19.15 (16.76 - 21.69)	1.76 (1.32 - 2.38)	3.56 (2.65 - 4.74)	0.58 (0.33 - 0.91)	0.54 (0.33 - 0.82)	5.21 (3.84 - 6.98)	9.08 (6.69 - 11.62)	1.8 (1.16 - 2.71)	2.02 (1.31 - 3.03)
Greece	High-middle SDI	47.51 (45.58 - 49.31)	29.84 (28.82 - 31.14)	11.12 (9.21 - 13.33)	15.86 (13.51 - 18.19)	52.46 (51.34 - 53.14)	30.04 (28.58 - 31.11)	17.1 (14.42 - 19.81)	21.19 (18.64 - 23.85)	17.52 (13.76 - 21.38)	14.09 (10.63 - 17.98)	5.84 (3.67 - 8.61)	4.89 (3.13 - 6.99)	22.82 (18.52 - 26.84)	19.24 (15.24 - 22.85)	10.85 (7.52 - 14.8)	9.18 (6.41 - 12.37)
Greenland	High-middle SDI	40.37 (37.89 - 42.59)	23.28 (22.08 - 24.81)	8.07 (6.56 - 9.72)	9.49 (8 - 11.09)	46.53 (46.06 - 46.35)	29.04 (28.47 - 29.9)	20.39 (17.43 - 23.64)	21.73 (19 - 24.43)	11.17 (9.03 - 13.57)	12.57 (10.35 - 15.18)	3.35 (2.17 - 4.76)	3.75 (2.61 - 5.1)	16.33 (13.87 - 19.08)	16.66 (14.46 - 18.84)	6.9 (4.76 - 9.46)	7 (5.1 - 9.12)
Grenada	High-middle SDI	23.6 (21.06 - 25.9)	31.23 (29.64 - 32.79)	7.3 (6.28 - 8.52)	23.57 (21.38 - 25.7)	33.31 (31.69 - 34.92)	31.92 (31.05 - 32.34)	14.06 (12.6 - 15.72)	34.91 (32.88 - 37.13)	7.07 (5.59 - 8.6)	12.35 (10.76 - 14.47)	3.14 (2.2 - 4.36)	6.45 (4.86 - 8.15)	10.61 (9.03 - 12.69)	15.77 (13.73 - 18.1)	6.24 (4.5 - 8.19)	11.12 (8.71 - 13.78)
Guam	High SDI	37.42 (35.28 - 39.04)	25.92 (24.25 - 27.87)	21.54 (18.56 - 24.53)	27.54 (23.11 - 32.17)	40.79 (39.67 - 41.9)	31.48 (30.82 - 31.36)	30.9 (27.57 - 34.18)	42.57 (37.94 - 47.36)	25.56 (20.38 - 30.44)	12.88 (9.67 - 16.46)	10.32 (6.91 - 14.24)	10.3 (6.65 - 14.51)	28.72 (24.92 - 32.23)	16.69 (13.63 - 19.44)	18.26 (13.26 - 24.05)	19.38 (13.98 - 25.75)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.

Country	SDI Level	1980				2015				1980				2015			
		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity	
		Males	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*
Guatemala	Low-middle SDI	19.81 (17.03 - 22.68)	27.74 (24.52 - 30.37)	4.1 (2.92 - 5.5)	10.39 (8.49 - 12.48)	33.59 (31.42 - 35.57)	35.61 (34.01 - 36.99)	11.7 (9.33 - 14.19)	21.5 (18.57 - 24.78)	6.83 (5.1 - 8.9)	9.95 (7.53 - 12.92)	1.33 (0.79 - 2.13)	1.93 (1.25 - 2.82)	11.62 (9 - 14.78)	15.92 (12.6 - 19.37)	3.82 (2.38 - 5.64)	4.24 (2.78 - 6.2)
Guinea	Low SDI	7.43 (6.24 - 8.72)	10.7 (9.39 - 12.15)	0.81 (0.6 - 1.08)	3.04 (2.35 - 3.8)	15.5 (13.64 - 17.6)	19.17 (17.2 - 20.94)	3.7 (2.93 - 4.64)	9.03 (7.47 - 10.88)	3.33 (2.39 - 4.63)	4.87 (3.67 - 6.32)	1.04 (0.6 - 1.64)	1.38 (0.85 - 2.19)	5.4 (3.9 - 6.98)	7.67 (5.97 - 9.59)	2.18 (1.3 - 3.27)	2.4 (1.53 - 3.6)
Guinea-Bissau	Low SDI	3.49 (2.94 - 4.18)	7.41 (6.21 - 8.7)	0.21 (0.16 - 0.29)	1.3 (0.96 - 1.69)	17.13 (14.8 - 19.17)	21.67 (19.82 - 23.34)	4.35 (3.47 - 5.43)	10.54 (8.83 - 12.71)	1.77 (1.28 - 2.37)	3.41 (2.43 - 4.47)	0.61 (0.37 - 0.99)	0.96 (0.61 - 1.47)	7.57 (5.91 - 9.7)	9.91 (7.92 - 12.24)	5.51 (3.67 - 8.05)	6.13 (4.11 - 8.55)
Guyana	Middle SDI	21.07 (18.92 - 23.12)	30.55 (28.71 - 32.3)	6.48 (5.51 - 7.61)	20.7 (18.69 - 22.61)	27.74 (25.48 - 29.77)	31.71 (30.65 - 32.99)	10.44 (9.12 - 11.89)	27.43 (25.38 - 29.4)	4.59 (3.54 - 5.75)	7.66 (6.33 - 9.18)	2.04 (1.45 - 2.8)	3.13 (2.35 - 4.09)	6.48 (5.02 - 8.19)	9.93 (8.31 - 11.76)	3.37 (2.46 - 4.61)	5.48 (4.18 - 7.01)
Haiti	Low-middle SDI	16.94 (14.82 - 19.2)	16.56 (14.97 - 18.21)	3.43 (2.85 - 4.07)	7.95 (6.89 - 9.14)	22.04 (19.53 - 24.56)	22.65 (20.99 - 24.38)	5.98 (5.05 - 6.97)	12.86 (11.53 - 14.26)	5.45 (4.2 - 6.77)	7.08 (5.81 - 8.4)	1.67 (1.15 - 2.33)	2.13 (1.56 - 2.82)	7.38 (5.77 - 9.28)	7.84 (6.31 - 9.57)	1.67 (1.17 - 2.35)	1.69 (1.25 - 2.24)
Honduras	Middle SDI	13.99 (11.79 - 16.06)	25.02 (22.25 - 27.8)	3.21 (2.39 - 4.23)	9.46 (7.67 - 11.52)	36.86 (34.79 - 38.51)	35.27 (34.68 - 35.92)	15.49 (12.27 - 19.09)	28.05 (25.27 - 30.94)	3.51 (2.55 - 4.78)	8.08 (5.98 - 10.66)	0.55 (0.31 - 0.91)	1.43 (0.87 - 2.16)	9.65 (7.38 - 12.46)	14.47 (11.35 - 17.76)	2.8 (1.73 - 4.27)	4.49 (3.05 - 6.29)
Hungary	High SDI	46.34 (45.65 - 46.5)	30.58 (29.93 - 31.14)	22.68 (19.41 - 26.19)	25.52 (22.26 - 29.23)	43.36 (42.19 - 44.45)	29.65 (28.24 - 30.79)	17.5 (14.78 - 20.28)	20.31 (17.74 - 23.15)	18 (15.75 - 20.78)	13.55 (11.15 - 16.32)	7.58 (5.27 - 10.15)	5.3 (3.6 - 7.34)	16.34 (14.09 - 18.6)	14.22 (11.41 - 16.95)	7.17 (5.06 - 9.57)	5.84 (4.19 - 7.84)
Iceland	High SDI	53.51 (52.88 - 53.72)	30.05 (28.83 - 30.68)	18.9 (15.98 - 21.85)	24.78 (21.73 - 27.92)	53.07 (53.36 - 52.87)	32.02 (31.61 - 32.09)	24.01 (20.7 - 27.05)	29.76 (26.4 - 33.17)	24.38 (19.06 - 30.04)	16.03 (12.15 - 20.04)	5.8 (3.74 - 8.7)	5.21 (3.45 - 7.5)	21.87 (16.62 - 26.59)	15.68 (12.05 - 19.23)	6.76 (4.38 - 9.91)	5.63 (3.81 - 7.93)
India	Low-middle SDI	8.35 (7.94 - 8.8)	10.03 (9.5 - 10.54)	1.24 (1.13 - 1.36)	2.14 (1.96 - 2.32)	17.21 (16.59 - 17.84)	17.13 (16.47 - 17.74)	4.58 (4.32 - 4.85)	7.04 (6.68 - 7.43)	2.71 (2.49 - 2.99)	2.71 (2.49 - 2.99)	1.31 (1.16 - 1.48)	1.35 (1.15 - 1.57)	5.22 (4.77 - 5.72)	4.99 (4.57 - 5.43)	3 (2.7 - 3.35)	3.13 (2.78 - 3.5)
Indonesia	Middle SDI	5.78 (4.47 - 7.27)	10.94 (9.34 - 12.71)	0.51 (0.37 - 0.7)	2.23 (1.72 - 2.89)	17.33 (15.36 - 19.41)	21.59 (19.55 - 23.41)	5.21 (4.22 - 6.42)	10.71 (9.09 - 12.46)	1.58 (1.11 - 2.17)	2.46 (1.85 - 3.24)	0.86 (0.52 - 1.41)	0.95 (0.59 - 1.45)	4.48 (3.2 - 5.88)	5.37 (4.14 - 6.73)	3.11 (2.08 - 4.48)	3.11 (2.1 - 4.55)
Iran	High-middle SDI	23.88 (20.98 - 26.74)	31.7 (29.4 - 33.83)	5.8 (4.92 - 6.79)	16.61 (14.6 - 18.77)	35.33 (33.04 - 37.5)	32.33 (30.53 - 33.95)	13.83 (12.51 - 15.14)	24.05 (21.89 - 26.19)	4.13 (3.1 - 5.38)	6.43 (4.74 - 8.36)	1.23 (0.83 - 1.74)	1.66 (1.15 - 2.29)	8.91 (6.75 - 11.18)	10.25 (7.69 - 12.74)	4.25 (3.02 - 5.7)	4.45 (3.2 - 6.05)
Iraq	Middle SDI	36.71 (34.61 - 38.78)	30.69 (29.61 - 31.98)	23.17 (20.8 - 25.51)	33.94 (30.89 - 36.8)	37.2 (35.92 - 38.75)	30.62 (29.66 - 31.22)	25.76 (23.46 - 27.98)	36.95 (34.02 - 39.91)	8.61 (6.58 - 11.15)	11.36 (8.86 - 14.44)	3.71 (2.64 - 4.98)	4.22 (2.98 - 5.69)	9.89 (7.77 - 12.38)	12.67 (9.96 - 15.3)	5.61 (4.11 - 7.49)	5.83 (4.33 - 7.72)
Ireland	High SDI	43.69 (41.38 - 45.98)	27.84 (26.01 - 29.59)	10.42 (8.72 - 12.18)	12.85 (10.8 - 14.94)	41.83 (41.54 - 42.23)	29.97 (29.32 - 30.2)	22.87 (20.29 - 25.64)	25.53 (23.02 - 28.34)	16.79 (12.74 - 21.93)	14.2 (10.63 - 17.73)	4.83 (2.86 - 7.43)	4.49 (2.97 - 6.43)	18.06 (14.11 - 22.22)	15.79 (12.24 - 19.73)	6.08 (3.94 - 9)	5.79 (3.86 - 7.93)
Israel	High SDI	38.33 (36.15 - 40.24)	28.68 (27.14 - 30.07)	11.2 (9.24 - 13.27)	17.84 (15.43 - 20.28)	47.85 (46.36 - 48.95)	29.82 (29.12 - 30.17)	16.57 (14.53 - 18.9)	24.01 (21.25 - 26.7)	10.66 (7.82 - 13.68)	8.06 (6.01 - 10.44)	3 (1.78 - 4.73)	2.36 (1.52 - 3.61)	17.65 (13.72 - 22.5)	12.44 (9.5 - 15.71)	6.75 (4.2 - 9.84)	4.54 (3.02 - 6.6)
Italy	High SDI	45.25 (42.9 - 47.4)	24.37 (23.05 - 25.88)	9.04 (7.8 - 10.43)	11.57 (10.04 - 13.19)	42.87 (41.3 - 44.62)	25.14 (23.96 - 26.51)	10.86 (9.6 - 12.2)	11.08 (9.85 - 12.37)	18.87 (14.22 - 23.42)	12.01 (9.21 - 14.9)	6.44 (4.14 - 9.52)	5.72 (3.69 - 8.28)	21.01 (16.72 - 25.46)	16.75 (13.16 - 20.51)	7.24 (4.7 - 10.18)	5.86 (3.95 - 8.16)
Jamaica	High-middle SDI	21.52 (19.15 - 23.7)	30.76 (28.75 - 32.41)	7.03 (5.98 - 8.16)	20.75 (18.7 - 22.88)	29.8 (27.93 - 31.89)	29.73 (28.65 - 30.7)	14.44 (12.66 - 16.47)	31.89 (29.49 - 34.48)	7.5 (6.07 - 9.19)	12.22 (10.23 - 14.28)	3.58 (2.52 - 4.79)	6.35 (4.9 - 8.06)	9.76 (7.98 - 11.55)	14.64 (12.64 - 16.74)	5.96 (4.3 - 7.88)	8.4 (6.64 - 10.47)
Japan	High SDI	16.55 (16.3 - 16.8)	16.98 (16.71 - 17.26)	1.02 (0.96 - 1.08)	2.41 (2.33 - 2.5)	20.8 (20.55 - 21.07)	14.46 (14.21 - 14.68)	2.51 (2.36 - 2.66)	3.02 (2.9 - 3.14)	7.49 (7.27 - 7.72)	7.42 (7.15 - 7.77)	1.8 (1.66 - 1.94)	1.28 (1.19 - 1.38)	10.97 (10.69 - 11.24)	10.78 (10.43 - 11.21)	3.22 (2.98 - 3.46)	2.46 (2.27 - 2.65)
Jordan	High-middle SDI	36.37 (33.83 - 38.68)	31.38 (29.54 - 32.71)	14.79 (12.99 - 16.57)	27.19 (24.56 - 29.88)	41.6 (40.64 - 42.59)	30.1 (29.8 - 30.32)	31.77 (29.28 - 34.08)	43.39 (40.85 - 45.75)	6.28 (4.55 - 8.33)	9.59 (7.3 - 12.3)	1.6 (1.13 - 2.18)	2.32 (1.63 - 3.21)	13.03 (10.17 - 16.26)	15.44 (12.7 - 18.51)	6.28 (4.58 - 8.21)	6.02 (4.59 - 7.77)
Kazakhstan	High-middle SDI	36.17 (34.1 - 38.18)	29.99 (29.09 - 31.18)	8.51 (6.96 - 10.21)	20.86 (19 - 22.81)	41.53 (39.94 - 43.29)	32.21 (31.47 - 33.08)	11.89 (10.04 - 13.94)	24.38 (22.43 - 26.38)	10.62 (8.5 - 12.98)	11.97 (9.87 - 14.18)	3.01 (2.02 - 4.36)	2.53 (1.9 - 3.35)	14.41 (11.92 - 17.39)	13.22 (11.2 - 15.55)	6.56 (4.62 - 9.06)	4.81 (3.62 - 6.27)
Kenya	Low SDI	11.92 (11.48 - 12.33)	18.13 (17.81 - 18.44)	4.07 (3.73 - 4.45)	6.93 (6.66 - 7.22)	15.88 (15.22 - 16.55)	26.01 (25.8 - 26.22)	5.22 (4.75 - 5.77)	15.3 (14.74 - 15.86)	8.44 (7.86 - 9.11)	9.43 (8.97 - 9.96)	4.29 (3.8 - 4.85)	2.7 (2.46 - 2.96)	5.69 (5.23 - 6.12)	10.03 (9.5 - 10.61)	2.49 (2.2 - 2.82)	2.44 (2.23 - 2.67)
Kiribati	Low-middle SDI	35.89 (34.8 - 36.64)	26.97 (26.72 - 26.82)	32.34 (28.77 - 36.1)	46.41 (41.5 - 51.3)	36.64 (36.03 - 37.08)	28.14 (28.67 - 27.52)	34.44 (30.87 - 37.97)	49.36 (44.24 - 54.3)	15.9 (13.5 - 19.25)	18.92 (16.13 - 22.31)	19.62 (13.92 - 26.17)	28.84 (21.23 - 36.5)	16.72 (14.3 - 19.71)	20.14 (17.27 - 22.21)	20.07 (14.77 - 26.19)	29.45 (21.77 - 37.66)
Kuwait	High SDI	29.61 (27.65 - 31.05)	33.81 (32.95 - 34.71)	22.97 (20.52 - 25.45)	38.86 (36.08 - 41.61)	36.96 (37.09 - 36.97)	32.38 (32.51 - 32.11)	41.36 (39.07 - 43.49)	49.54 (47.76 - 51.39)	12.24 (9.64 - 15.33)	15.58 (12.95 - 18.58)	10.96 (8.06 - 13.99)	10.9 (8.42 - 13.91)	19.09 (16.22 - 21.84)	20.57 (17.52 - 23.63)	22.08 (17.81 - 26.96)	19.24 (15.16 - 23.38)
Kyrgyzstan	Middle SDI	33.57 (31.63 - 35.67)	28.81 (27.71 - 29.96)	8.34 (6.9 - 9.97)	17.15 (15.49 - 18.84)	36.28 (34.57 - 37.88)	33.76 (33.08 - 34.36)	11.98 (10.12 - 14.11)	21.06 (19.51 - 22.69)	13.18 (10.63 - 15.84)	11.3 (9.32 - 13.38)	3.46 (2.34 - 4.92)	3.06 (2.26 - 4.03)	9.99 (7.67 - 12.25)	10.14 (8.31 - 12.28)	2.7 (1.88 - 3.77)	2.31 (1.76 - 3.02)
Laos	Low-middle SDI	5.82 (4.7 - 7.06)	10.92 (9.28 - 12.82)	0.57 (0.41 - 0.79)	1.78 (1.38 - 2.27)	15.63 (13.42 - 18.03)	19.46 (17.32 - 21.81)	2.46 (1.88 - 3.2)	5.25 (4.15 - 6.44)	1.53 (1.09 - 2.1)	3.08 (2.23 - 4.14)	0.56 (0.34 - 0.89)	0.81 (0.5 - 1.23)	3.19 (2.25 - 4.39)	5.05 (3.7 - 6.63)	1.14 (0.74 - 1.69)	1.41 (0.9 - 2.03)
Latvia	High SDI	39.4 (38.01 - 40.67)	30.97 (30.18 - 31.68)	12.04 (10.65 - 13.59)	22.46 (20.48 - 24.44)	40.19 (39.37 - 40.79)	30.58 (30.02 - 31.17)	18.06 (16.33 - 19.97)	26.28 (24.49 - 28.15)	12.66 (10.67 - 14.68)	7.6 (6.43 - 9)	2.64 (1.88 - 3.59)	2.52 (1.84 - 3.32)	15.03 (12.93 - 17.33)	10.28 (8.7 - 11.96)	5.09 (3.8 - 6.75)	3.44 (2.59 - 4.52)
Lebanon	High-middle SDI	33.66 (30.68 - 36.84)	30.51 (27.76 - 33.1)	9.23 (7.97 - 10.53)	12.75 (11.08 - 14.5)	42.55 (40.76 - 43.94)	33.09 (31.72 - 34.42)	22.19 (20.18 - 24.09)	24.56 (22.36 - 27.04)	8.14 (6.24 - 10.44)	10.15 (8.03 - 12.43)	4.12 (2.93 - 5.59)	3.66 (2.57 - 4.96)	13.07 (10.13 - 15.8)	14.1 (11.37 - 17.37)	7.45 (5.54 - 9.71)	6.43 (4.79 - 8.46)
Lesotho	Low-middle SDI	9.74 (8.04 - 11.62)	26.41 (25.24 - 27.44)	2.27 (1.7 - 2.97)	16 (14.17 - 17.93)	16.54 (15.06 - 18.06)	27.96 (27.75 - 28.06)	6.59 (5.58 - 7.68)	28.94 (27.04 - 30.95)	3.45 (2.37 - 5.03)	8.27 (6.92 - 9.68)	1.68 (0.93 - 2.73)	2.6 (1.9 - 3.43)	5.92 (4.05 - 8.37)	11.98 (9.95 - 14.07)	2 (1.16 - 3.15)	4.2 (3.2 - 5.5)
Liberia	Low SDI	27.92 (25.68 - 29.83)	21.06 (19.4 - 23.12)	12.08 (10.09 - 14.28)	12.49 (10.34 - 14.65)	27.87 (26.3 - 29.33)	23.91 (22.64 - 25.28)	14.52 (12.55 - 16.64)	19.69 (17.27 - 22.5)	7.66 (5.8 - 9.35)	8.76 (6.74 - 10.99)	3.13 (2.04 - 4.59)	2.34 (1.5 - 3.45)	7.58 (5.66 - 9.78)	9.07 (6.92 - 11.67)	3.29 (2.16 - 4.84)	2.3 (1.44 - 3.41)
Libya	Middle SDI	38.13 (35.77 - 40.78)	32.15 (30.78 - 33.54)	16.85 (14.78 - 18.8)	27.71 (24.9 - 30.6)	39.5 (37.64 - 41.28)	32.25 (31.15 - 33.1)	21.79 (19.56 - 24.2)	34.85 (31.91 - 38.19)	12.76 (9.84 - 15.64)	17.33 (14.22 - 20.63)	7.49 (5.45 - 9.98)	8.66 (6.42 - 11.18)	13.72 (10.85 - 16.65)	17.79 (14.42 - 21.28)	8.84 (6.59 - 11.41)	9.75 (7.42 - 12.46)
Lithuania	High SDI	41.13 (39.86 - 42.13)	31.9 (30.96 - 32.91)	11.86 (10.2 - 13.59)	19.13 (17.22 - 21)	48.6 (47.75 - 49.37)	31.98 (31.32 - 32.67)	15.59 (13.94 - 17.24)	21.98 (20.37 - 23.72)	9.19 (7.78 - 10.65)	8.56 (7.06 - 10.36)	2.49 (1.82 - 3.31)	2.69 (1.98 - 3.54)	14.34 (12.04 - 16.64)	10.03 (8.4 - 11.91)	4.75 (3.5 - 6.18)	3.65 (2.7 - 4.88)
Luxembourg	High SDI	42.45 (39.84 - 44.6)	21.85 (20.48 - 22.96)	10.92 (9.26 - 12.89)	15.55 (13.34 - 17.93)	41.75 (40.87 - 42.81)	26.38 (25.12 - 27.55)	21.17 (18.36 - 23.98)	19.19 (16.52 - 21.72)	12.84 (9.33 - 17.1)	5.57 (4.12 - 7.45)	3.4 (2.11 - 5.31)	3.04 (1.97 - 4.47)	12.56 (9.51 - 15.28)	8.16 (6.11 - 10.76)	10.86 (7.27 - 15.05)	7.3 (4.83 - 9.97)
Macedonia	High-middle SDI	34.38 (32.37 - 35.95)	28.31 (26.77 - 30.03)	13.6 (11.44 - 16.25)	16.53 (14.15 - 18.97)	38.6 (37.2 - 39.92)	29.63 (28.42 - 30.78)	18.34 (15.48 - 21.47)	20.29 (17.37 - 23.25)	11.47 (9.52 - 13.46)	8.67 (6.68 - 10.76)	3.58 (2.37 - 5.24)	3.1 (2.08 - 4.4)	15.21 (12.76 - 17.39)	11.04 (9.02 - 13.47)	6.15 (4.32 - 8.4)	5.19 (3.66 - 7.05)
Madagascar	Low SDI	14.28 (11.58 - 17.11)	12.01 (10.36 - 13.72)	4.97 (3.01 - 7.73)	2.71 (1.91 - 3.71)	10.54 (7.96 - 13.28)	11.79 (10.17 - 13.68)	2.61 (1.55 - 4.15)	3.1 (2.31 - 4.04)	6.69 (4.16 - 9.95)	5.56 (3.9 - 7.38)	1.63 (0.7 - 3.13)	1.41 (0.79 - 2.33)	4.41 (2.83 - 6.59)	4.11 (2.88 - 5.69)	1.8 (0.82 - 3.42)	1.47 (0.81 - 2.49)
Malawi	Low SDI	16.71 (13.37 - 20.49)	14.09 (11.89 - 16.25)	5.03 (2.96 - 8.02)	2.97 (2.14 - 4.06)	17.15 (14.34 - 20.06)	19.31 (17.31 - 21.28)	4.41 (2.85 - 6.53)	7.43 (5.93 - 9.16)	14.09 (9.95 - 18.79)	11.38 (8.52 - 14.85)	7 (3.51 - 11.71)	4.32 (2.52 - 6.8)	10.78 (7.13 - 15.45)	15.4 (11.8 - 18.96)	4.3 (2.32 - 7.19)	5.11 (3.19 - 7.73)
Malaysia	High-middle SDI	23.79 (20.74 - 26.92)	25.8 (23.25 - 27.95)	6.43 (5.01 - 8.02)	9.88 (8.06 - 11.92)	33.74 (30.93 - 36.35)	30.27 (28.25 - 32.12)	12.97 (10.83 - 15.18)	17.48 (14.99 - 20.19)	6.69 (4.85 - 8.83)	7.89 (6.04 - 9.84)	5.04 (3.38 - 7.02)	5.1 (3.49 - 7.13)	12.5 (9.43 - 15.45)	11.97 (9.49 - 14.52)	9.99 (7.18 - 13.59)	8.91 (6.17 - 11.98)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.

Country	SDI Level	1980 Adult (ages >= 20) Prevalence of Overweight – Males	1980 Adult (ages >= 20) Prevalence of Overweight – Females	1980 Adult (ages >= 20) Prevalence of Obesity – Males	1980 Adult (ages >= 20) Prevalence of Obesity – Females	2015 Adult (ages >= 20) Prevalence of Overweight – Males	2015 Adult (ages >= 20) Prevalence of Overweight – Females	2015 Adult (ages >= 20) Prevalence of Obesity – Males	2015 Adult (ages >= 20) Prevalence of Obesity – Females
Maldives	Middle SDI	12.52 (10.4 - 14.93)	20.64 (18.02 - 23.29)	1.81 (1.37 - 2.34)	5.95 (4.77 - 7.21)	33.05 (30.98 - 35.17)	36.74 (35.67 - 37.7)	11 (9.45 - 12.9)	20.05 (17.86 - 22.42)
Mali	Low SDI	5.02 (4.15 - 5.88)	7 (6.01 - 8.2)	0.45 (0.34 - 0.6)	1.2 (0.93 - 1.54)	25.19 (23.19 - 26.97)	24.26 (22.52 - 25.57)	9.79 (7.99 - 11.79)	17.23 (14.91 - 19.87)
Malta	High-middle SDI	49.54 (49 - 50.01)	30.41 (29.87 - 31.23)	20.48 (17.49 - 23.6)	23.3 (20.26 - 26.31)	49.66 (49.18 - 49.59)	31.04 (29.98 - 31.87)	23.93 (20.78 - 27.4)	27.99 (24.9 - 31.23)
Marshall Islands	Middle SDI	34.23 (32.11 - 36.13)	32.45 (31.18 - 33.36)	20.76 (17.92 - 23.65)	35.29 (30.72 - 39.71)	37.92 (35.97 - 38.67)	32.79 (32.47 - 32.35)	28.9 (25.82 - 32.54)	43.78 (38.92 - 48.68)
Mauritania	Low SDI	9.84 (8.5 - 11.44)	18.54 (16.6 - 20.43)	1.21 (0.93 - 1.59)	8.24 (6.7 - 9.96)	28.95 (26.93 - 30.69)	28.36 (27.77 - 29.5)	11.45 (9.51 - 13.64)	27.52 (24.06 - 30.81)
Mauritius	High-middle SDI	20.4 (17.55 - 23.58)	22.29 (20.08 - 24.34)	3.35 (2.6 - 4.2)	8.81 (7.21 - 10.55)	35.68 (33.15 - 38.25)	34.71 (33.08 - 36.01)	11.39 (9.53 - 13.47)	20.31 (17.99 - 22.82)
Mexico	Middle SDI	37.32 (36.99 - 37.65)	38.63 (38.36 - 38.88)	13.64 (12.95 - 14.36)	20.52 (19.87 - 21.16)	43.46 (43.29 - 43.54)	37.68 (37.61 - 37.8)	23.4 (22.61 - 24.27)	32.66 (31.89 - 33.41)
Moldova	High-middle SDI	33.62 (32.23 - 34.87)	30.13 (29.63 - 30.6)	12.91 (11.47 - 14.55)	23.52 (21.39 - 25.63)	40.37 (40.48 - 40.22)	29.59 (29.15 - 29.97)	19.93 (18.41 - 21.41)	29.76 (28.27 - 31.36)
Mongolia	High-middle SDI	31.22 (29.55 - 32.82)	32.39 (30.93 - 33.73)	9.72 (8 - 11.49)	15.94 (14.35 - 17.61)	37.52 (36.25 - 38.48)	36.32 (35.52 - 37.23)	15.33 (13.08 - 17.95)	22.84 (21.02 - 24.72)
Montenegro	High-middle SDI	40.3 (38.55 - 41.75)	29.49 (27.97 - 30.64)	13.64 (11.5 - 16.19)	17.65 (15.01 - 20.45)	43.51 (41.69 - 44.69)	30.37 (29.16 - 31.63)	15.28 (12.79 - 18.07)	19.42 (16.59 - 22.39)
Morocco	Low-middle SDI	24.74 (22.03 - 27.65)	24.79 (22.69 - 27.23)	6.04 (5.13 - 6.99)	11.37 (9.71 - 13.13)	37.18 (34.28 - 39.9)	32.35 (30.52 - 33.89)	11.82 (10.43 - 13.31)	23.08 (20.56 - 25.71)
Mozambique	Low SDI	9.49 (7.05 - 11.8)	12.98 (11.27 - 14.89)	2.65 (1.49 - 4.28)	4.1 (3.01 - 5.53)	16.46 (13.4 - 19.69)	19.13 (17.45 - 20.86)	6.29 (4.06 - 9.19)	11.35 (9.16 - 13.85)
Myanmar	Low-middle SDI	5.64 (4.44 - 6.96)	11.89 (10.07 - 13.85)	0.55 (0.41 - 0.73)	2.36 (1.82 - 3.05)	17.89 (15.69 - 20.02)	23.4 (20.96 - 25.22)	6.08 (5.03 - 7.41)	9.99 (8.52 - 11.65)
Namibia	Middle SDI	12.83 (10.89 - 14.96)	17.02 (15.7 - 17.98)	6.15 (4.84 - 7.61)	11.44 (9.97 - 13.07)	13.88 (12.52 - 15.18)	21.47 (20.78 - 22.25)	6.33 (5.31 - 7.46)	17.29 (15.95 - 18.6)
Nepal	Low-middle SDI	3.85 (3.04 - 4.72)	2.77 (2.17 - 3.48)	0.31 (0.22 - 0.42)	0.28 (0.2 - 0.38)	25.35 (23.49 - 27.33)	20.98 (19.01 - 23.06)	4.81 (3.94 - 5.75)	6.04 (5.02 - 7.24)
Netherlands	High SDI	37.93 (35 - 40.95)	27.17 (25.27 - 28.89)	4.9 (4.07 - 5.83)	10.86 (9.24 - 12.77)	46.39 (44.95 - 47.96)	30.62 (29.87 - 31.2)	12.51 (11.24 - 13.75)	22.78 (20.84 - 24.86)
New Zealand	High SDI	45.5 (42.52 - 48.37)	28.77 (26.09 - 31.01)	14.27 (12.27 - 16.4)	17.98 (15.65 - 20.67)	44.35 (43.21 - 45.13)	30.7 (29.51 - 32.32)	25.57 (23.03 - 28.19)	28.43 (25.81 - 31.11)
Nicaragua	Middle SDI	16.72 (14.59 - 19.24)	30.31 (28.25 - 32.41)	5.52 (4.25 - 7.11)	16.11 (13.31 - 19.03)	34.15 (32.22 - 36.02)	35.81 (34.97 - 36.15)	16.96 (13.8 - 20.31)	28.93 (25.55 - 32.7)
Niger	Low SDI	11.34 (9.74 - 13.15)	10.6 (9.15 - 12.13)	1.27 (0.96 - 1.67)	2.68 (2.11 - 3.34)	22.14 (19.72 - 24.57)	21.85 (19.92 - 24.14)	4.27 (3.37 - 5.32)	6.27 (5.15 - 7.61)
Nigeria	Low-middle SDI	6.49 (5.48 - 7.66)	10.22 (8.74 - 11.7)	0.75 (0.55 - 1)	2.54 (1.99 - 3.18)	28.2 (25.94 - 30.11)	22.76 (21.61 - 23.89)	9.81 (7.92 - 12.01)	13.54 (11.77 - 15.56)
North Korea	Middle SDI	6.58 (5.53 - 7.79)	8.34 (7.27 - 9.53)	0.52 (0.35 - 0.74)	1.32 (0.94 - 1.81)	7.09 (6.07 - 8.11)	8.29 (7.21 - 9.4)	0.78 (0.55 - 1.13)	1.39 (1.01 - 1.88)
Northern Mariana Islands	High SDI	33.83 (31.45 - 35.89)	24.41 (22.41 - 26.35)	17.29 (14.7 - 19.99)	21.33 (17.41 - 25.31)	37.43 (35.16 - 39.16)	32.34 (31.51 - 33.05)	21.98 (19.2 - 25.2)	32.85 (28.08 - 37.89)
Norway	High SDI	39.32 (36.36 - 42.07)	28.39 (26.35 - 30.03)	7.43 (6.05 - 8.98)	9.92 (8.39 - 11.76)	48.1 (46.64 - 49.36)	32.98 (31.51 - 33.93)	15.43 (13.52 - 17.62)	17.45 (15.32 - 19.82)
Oman	High-middle SDI	27.04 (24.3 - 29.88)	29 (26.78 - 30.84)	9.21 (7.94 - 10.54)	20.21 (18.2 - 22.64)	39.57 (38.09 - 40.87)	31.81 (30.98 - 32.38)	24.82 (22.62 - 27.1)	37.9 (35.18 - 40.79)
Pakistan	Low-middle SDI	16.83 (14.07 - 19.98)	21.3 (17.6 - 24.73)	3.62 (2.71 - 4.72)	6.97 (5.54 - 8.8)	24.26 (21.16 - 27.26)	24.44 (22.62 - 26.37)	7.3 (5.91 - 9.1)	14.49 (12.33 - 16.85)
Palestine	Middle SDI	26.99 (24.33 - 29.84)	32.43 (30.5 - 34.6)	10.06 (8.75 - 11.57)	20.96 (18.64 - 23.24)	38.58 (37.48 - 39.63)	37.15 (36.62 - 37.37)	24.5 (22.35 - 26.64)	38.11 (35.64 - 40.54)
Panama	High-middle SDI	6.28 (5.23 - 7.47)	10.94 (9.5 - 12.64)	1.52 (1.08 - 2.02)	4.44 (3.5 - 5.58)	21.45 (18.81 - 23.72)	23.48 (21.42 - 25.39)	7.85 (6.05 - 9.95)	14.98 (12.48 - 17.79)
Papua New Guinea	Low-middle SDI	24.77 (21.29 - 28.48)	22.87 (19.55 - 26.13)	5.41 (4.26 - 6.74)	9.12 (7.01 - 11.6)	26.94 (23.87 - 29.91)	27.97 (24.36 - 30.5)	5.93 (4.86 - 7.1)	11.3 (9.21 - 13.98)
Paraguay	Middle SDI	27.39 (24.88 - 29.85)	30.42 (28.62 - 31.93)	8.48 (6.33 - 11.08)	14.42 (11.58 - 17.7)	34.83 (33.59 - 36.12)	31.51 (30.68 - 32.08)	21.24 (17.87 - 24.97)	27.04 (23.3 - 30.81)
Peru	High-middle SDI	26.07 (24.59 - 27.49)	32.71 (32.07 - 33.69)	8.87 (7.23 - 10.71)	14.4 (13.25 - 15.52)	42.88 (42.77 - 42.8)	39.6 (39.36 - 39.7)	17.27 (15.74 - 18.94)	24.22 (23.17 - 25.31)
Philippines	Middle SDI	12.31 (10.22 - 14.58)	13.51 (11.74 - 15.38)	1.63 (1.22 - 2.13)	2.93 (2.3 - 3.7)	20.57 (18.12 - 22.82)	20.95 (18.97 - 22.88)	5.13 (4.17 - 6.29)	7.46 (6.19 - 8.71)
Poland	High SDI	48.55 (47.16 - 49.57)	27.29 (26.34 - 28.17)	16.37 (13.66 - 19.24)	19.38 (16.61 - 22.22)	47.71 (46.7 - 49)	29.8 (28.98 - 31.07)	16.54 (14.34 - 18.78)	17.69 (15.65 - 19.78)
Portugal	High-middle SDI	38.66 (35.86 - 41.44)	28.19 (26.27 - 29.87)	7.08 (5.73 - 8.53)	12.13 (10.21 - 14.26)	47.35 (46.24 - 48.52)	30.99 (30.41 - 31.47)	17.24 (15.13 - 19.46)	22.5 (19.92 - 25.13)
Puerto Rico	High SDI	33.52 (31.48 - 35.59)	30.84 (29.3 - 32.19)	14.43 (12.67 - 16.25)	23.7 (21.6 - 26.01)	43.88 (43.34 - 44.39)	29.52 (29.15 - 29.87)	32.64 (30.25 - 35.08)	43.85 (41.25 - 46.39)
Qatar	High-middle SDI	39.11 (39.24 - 39.16)	18.63 (18.08 - 19.44)	43.46 (40.58 - 46.16)	52.96 (49.38 - 56.16)	36.78 (36.66 - 36.82)	23.64 (23.73 - 23.63)	42.52 (40.13 - 44.82)	52.42 (50.25 - 54.5)

Country	SDI Level	1980 Child (ages 2 - 19) Prevalence of Overweight – Males	1980 Child (ages 2 - 19) Prevalence of Overweight – Females	1980 Child (ages 2 - 19) Prevalence of Obesity – Males	1980 Child (ages 2 - 19) Prevalence of Obesity – Females	2015 Child (ages 2 - 19) Prevalence of Overweight – Males	2015 Child (ages 2 - 19) Prevalence of Overweight – Females	2015 Child (ages 2 - 19) Prevalence of Obesity – Males	2015 Child (ages 2 - 19) Prevalence of Obesity – Females
Maldives	Middle SDI	2.73 (1.96 - 3.78)	4.33 (3.16 - 5.74)	1.53 (0.99 - 2.26)	1.23 (0.79 - 1.88)	7.35 (5.61 - 9.81)	8.62 (6.67 - 11.2)	5.79 (3.96 - 7.9)	3.86 (2.64 - 5.51)
Mali	Low SDI	1.25 (0.89 - 1.74)	1.77 (1.29 - 2.39)	0.31 (0.19 - 0.51)	0.33 (0.2 - 0.52)	7.96 (6.05 - 10.01)	8.14 (6.28 - 10.23)	4.25 (2.79 - 6.19)	3.9 (2.52 - 5.74)
Malta	High-middle SDI	21.17 (16.07 - 25.47)	17.11 (13.3 - 20.69)	10.46 (7.18 - 15.13)	7.55 (5.16 - 10.69)	23.25 (19.25 - 28.07)	18.9 (15.48 - 22.76)	12.22 (8.45 - 16.5)	10.66 (7.6 - 14.31)
Marshall Islands	Middle SDI	12.07 (9.07 - 15.27)	14.99 (11.48 - 18.43)	5.88 (3.74 - 8.82)	8.45 (5.46 - 12.68)	16.37 (12.23 - 19.63)	18.21 (14.11 - 21.93)	8.91 (5.91 - 13.08)	11.82 (7.73 - 16.8)
Mauritania	Low SDI	1.88 (1.3 - 2.6)	5.26 (3.94 - 6.83)	0.69 (0.43 - 1.08)	1.35 (0.87 - 1.99)	5.41 (4.12 - 7.02)	8.56 (6.65 - 10.76)	3.12 (2.05 - 4.6)	4.16 (2.88 - 5.83)
Mauritius	High-middle SDI	7.05 (5.13 - 9.27)	6.41 (4.81 - 8.12)	2.4 (1.56 - 3.61)	3.28 (2.2 - 4.79)	15.74 (12.31 - 19.13)	12.77 (9.92 - 15.83)	6.69 (4.51 - 9.32)	8.52 (6.09 - 11.42)
Mexico	Middle SDI	15.21 (14.42 - 15.89)	11.83 (11.3 - 12.41)	6.41 (5.78 - 7.07)	3.65 (3.33 - 4.02)	19.12 (18.31 - 19.87)	18.67 (17.88 - 19.47)	9.59 (8.84 - 10.41)	9.21 (8.54 - 9.93)
Moldova	High-middle SDI	8.05 (6.72 - 9.43)	7.37 (6.17 - 8.72)	2.84 (2.05 - 3.75)	3.72 (2.8 - 4.96)	11.19 (9.43 - 13.06)	8.42 (6.97 - 9.98)	3.2 (2.4 - 4.08)	3.37 (2.56 - 4.32)
Mongolia	High-middle SDI	10.03 (8.05 - 12.28)	12.33 (10.29 - 14.51)	4.31 (2.86 - 6.1)	3.93 (2.94 - 5.05)	14.16 (11.25 - 17.21)	14.71 (12.36 - 17.21)	4.61 (3.21 - 6.23)	4.19 (3.25 - 5.32)
Montenegro	High-middle SDI	13.48 (11.24 - 15.82)	12.86 (10.17 - 15.8)	5.4 (3.75 - 7.47)	4.64 (3.29 - 6.48)	18.23 (15.92 - 20.57)	14.88 (12.32 - 17.94)	10.77 (8.05 - 13.96)	7.27 (5.22 - 9.52)
Morocco	Low-middle SDI	6.4 (4.75 - 8.46)	10.42 (8.01 - 13.41)	2.09 (1.45 - 2.86)	2.64 (1.9 - 3.56)	10.82 (8.3 - 13.93)	13.25 (10.39 - 16.31)	4.65 (3.29 - 6.45)	4.9 (3.54 - 6.52)
Mozambique	Low SDI	5.03 (3.12 - 7.55)	6.36 (4.54 - 8.82)	2.12 (1.01 - 4.07)	2.2 (1.21 - 3.6)	8.88 (5.63 - 12.1)	10.87 (7.88 - 14.04)	3.29 (1.58 - 6.32)	2.89 (1.67 - 4.68)
Myanmar	Low-middle SDI	1.35 (0.95 - 1.89)	2.15 (1.59 - 2.82)	0.54 (0.32 - 0.89)	0.9 (0.56 - 1.37)	5.22 (3.87 - 6.97)	5.57 (4.22 - 7.14)	3.26 (2.15 - 4.77)	2.91 (1.94 - 4.2)
Namibia	Middle SDI	5.24 (3.81 - 7.14)	6.22 (5.13 - 7.3)	2.79 (1.75 - 4.2)	1.92 (1.4 - 2.55)	5.28 (3.74 - 7.23)	6.95 (5.92 - 8.07)	2.54 (1.56 - 3.87)	3.23 (2.39 - 4.25)
Nepal	Low-middle SDI	1.21 (0.8 - 1.8)	1.35 (0.88 - 1.94)	0.17 (0.1 - 0.28)	0.25 (0.14 - 0.41)	4.61 (3.13 - 6.45)	3.48 (2.46 - 4.76)	1.1 (0.69 - 1.65)	1.66 (1.06 - 2.47)
Netherlands	High SDI	8.28 (5.92 - 11.51)	7.01 (5.21 - 9.18)	1.62 (0.98 - 2.54)	2.42 (1.57 - 3.53)	13.44 (9.86 - 17.37)	11.98 (9.3 - 14.65)	4.21 (2.74 - 6.09)	5.09 (3.4 - 7.14)
New Zealand	High SDI	18.57 (14.8 - 22.4)	16.72 (13.7 - 20.27)	6.63 (4.77 - 9.06)	7.19 (5.06 - 9.71)	20.5 (17.19 - 24.11)	19.75 (16.15 - 23.78)	8.68 (6.56 - 10.98)	8.58 (6.35 - 11.3)
Nicaragua	Middle SDI	7 (5.33 - 9.06)	11.71 (9.22 - 15.07)	2.2 (1.36 - 3.53)	2.8 (1.92 - 4.08)	10.69 (8.17 - 13.13)	15.59 (12.43 - 18.89)	4.31 (2.71 - 6.39)	5.19 (3.45 - 7.33)
Niger	Low SDI	3.27 (2.31 - 4.45)	2.71 (1.93 - 3.51)	0.83 (0.5 - 1.27)	0.64 (0.38 - 1.03)	8.21 (6.15 - 10.69)	5.81 (4.21 - 7.62)	2.7 (1.77 - 3.9)	1.68 (1.08 - 2.47)
Nigeria	Low-middle SDI	2.53 (1.78 - 3.47)	3.74 (2.7 - 5.02)	0.64 (0.37 - 1.04)	0.69 (0.42 - 1.13)	7.56 (5.73 - 9.32)	8.56 (6.69 - 10.91)	3.82 (2.5 - 5.47)	3.48 (2.23 - 4.96)
North Korea	Middle SDI	2.07 (1.56 - 2.69)	1.95 (1.51 - 2.57)	0.65 (0.35 - 1.09)	0.53 (0.3 - 0.91)	2.13 (1.59 - 2.73)	2.09 (1.6 - 2.57)	0.63 (0.35 - 1.08)	0.51 (0.29 - 0.86)
Northern Mariana Islands	High SDI	16.01 (12.22 - 19.55)	12.97 (10.02 - 16.49)	10.17 (6.74 - 14.58)	9.69 (6.1 - 14.11)	16.72 (12.91 - 20.65)	15.04 (11.51 - 18.72)	10.01 (6.8 - 14.37)	10.39 (6.49 - 15)
Norway	High SDI	13.67 (9.81 - 18.12)	11.18 (8.29 - 14.51)	2.97 (1.81 - 4.72)	2.39 (1.47 - 3.69)	20.72 (15.73 - 25.8)	16.24 (12.43 - 20.53)	5.58 (3.68 - 8.21)	4.13 (2.68 - 6.11)
Oman	High-middle SDI	5.89 (4.33 - 7.88)	10.7 (8.46 - 13.23)	2.57 (1.77 - 3.57)	5.53 (4.03 - 7.42)	16.15 (12.66 - 19.51)	16.44 (13.42 - 19.38)	11.63 (8.61 - 14.91)	11.97 (9.07 - 15.34)
Pakistan	Low-middle SDI	5.52 (3.87 - 7.8)	5.79 (4.14 - 7.62)	3.03 (1.99 - 4.45)	3.02 (1.95 - 4.51)	3.4 (2.3 - 4.68)	5.34 (3.81 - 7.7)	1.96 (1.24 - 2.92)	2.18 (1.4 - 3.28)
Palestine	Middle SDI	6.98 (5.26 - 9.3)	9.34 (7.05 - 11.93)	1.98 (1.37 - 2.74)	2.31 (1.63 - 3.21)	11 (8.5 - 14.09)	12.27 (9.42 - 15.29)	4.62 (3.34 - 6.11)	4.88 (3.52 - 6.53)
Panama	High-middle SDI	3.55 (2.53 - 4.78)	5.15 (3.75 - 6.9)	0.9 (0.51 - 1.44)	1.05 (0.66 - 1.59)	10.05 (7.82 - 12.62)	9.96 (7.75 - 12.62)	4.12 (2.61 - 6.21)	3.57 (2.32 - 5.18)
Papua New Guinea	Low-middle SDI	9.8 (6.94 - 13.33)	13.57 (9.32 - 17.64)	3.09 (1.93 - 4.81)	2.76 (1.51 - 4.47)	9.94 (6.98 - 13.23)	12.8 (8.82 - 16.75)	3.08 (1.82 - 4.69)	3.17 (1.82 - 5.07)
Paraguay	Middle SDI	7.72 (5.65 - 10.13)	9.58 (6.75 - 12.84)	2.27 (1.19 - 3.62)	1.3 (0.73 - 2.16)	13.18 (10.3 - 15.73)	13.75 (10.89 - 17.41)	8.2 (5.18 - 12.56)	6.31 (3.97 - 9.31)
Peru	High-middle SDI	12.01 (10.48 - 13.6)	16.36 (14.71 - 18.1)	2.76 (1.91 - 3.85)	3.01 (2.43 - 3.68)	14.89 (13.18 - 17.2)	18.24 (16.44 - 20.05)	4.33 (3.19 - 5.57)	4.12 (3.39 - 4.91)
Philippines	Middle SDI	1.5 (1.06 - 2.06)	2.25 (1.66 - 2.94)	0.6 (0.39 - 0.9)	0.65 (0.41 - 0.99)	4.39 (3.18 - 5.79)	3.88 (2.84 - 5.1)	2.89 (1.97 - 4.12)	2.22 (1.5 - 3.11)
Poland	High SDI	14.77 (11.98 - 17.44)	12.3 (9.6 - 15.33)	3.82 (2.63 - 5.48)	3.31 (2.23 - 4.64)	16.05 (13.29 - 18.6)	12.59 (9.76 - 15.08)	5.67 (3.88 - 7.75)	4.05 (2.86 - 5.75)
Portugal	High-middle SDI	13.42 (9.69 - 17.31)	10.71 (8.18 - 13.48)	3.47 (2.11 - 5.35)	3.08 (1.97 - 4.74)	20.07 (15.81 - 24.34)	16.83 (13.49 - 20.72)	8.75 (5.79 - 12.29)	8.02 (5.51 - 11.04)
Puerto Rico	High SDI	13.51 (11.1 - 16.27)	15.19 (13.14 - 17.34)	5.73 (4.12 - 7.78)	5.72 (4.38 - 7.28)	21.43 (19.13 - 23.78)	20.22 (18.06 - 22.38)	15.58 (12.2 - 19.23)	13.29 (10.85 - 16.09)
Qatar	High-middle SDI	14.68 (12.23 - 17.13)	8.97 (7.2 - 10.84)	20.49 (16.09 - 25.33)	10.61 (7.92 - 13.75)	16.11 (13.3 - 18.72)	13.43 (11 - 16.01)	20.84 (16.59 - 25.16)	13.51 (10.34 - 17.17)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.																	
		1980				2015				1980				2015			
Country	SDI Level	Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity	
		Males	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*	*Males*	*Females*
Romania	High-middle SDI	39.73 (37.84 - 41.56)	27.9 (26.46 - 29.54)	13.48 (11.15 - 16.04)	14.59 (12.14 - 17.2)	38.43 (37.05 - 39.11)	28.56 (26.98 - 29.79)	19.54 (16.81 - 22.75)	17.48 (14.88 - 20.4)	8.98 (7.45 - 10.46)	7.92 (6.17 - 10.05)	4.18 (2.87 - 5.99)	3.1 (2.07 - 4.38)	12.95 (10.93 - 15.24)	10.15 (8.15 - 12.58)	7.85 (5.59 - 10.46)	5.17 (3.58 - 7.18)
Russia	High SDI	34.33 (33.19 - 35.58)	31.86 (31.22 - 32.44)	10.23 (8.97 - 11.59)	24.41 (22.31 - 26.59)	41.06 (40.57 - 41.35)	30.86 (30.71 - 30.92)	16.42 (14.58 - 18.46)	30.21 (28.09 - 32.46)	10.47 (9.14 - 11.75)	10.27 (8.79 - 11.86)	6.13 (4.69 - 7.92)	5.53 (4.13 - 7.11)	14.74 (12.99 - 16.59)	10.8 (9.07 - 12.57)	7.37 (5.66 - 9.32)	5.62 (4.31 - 7.23)
Rwanda	Low SDI	6.1 (4.48 - 8.09)	15.33 (12.92 - 17.59)	1.01 (0.56 - 1.69)	3.28 (2.4 - 4.29)	10.88 (8.83 - 13.22)	22.75 (20.74 - 24.83)	1.42 (0.94 - 2.06)	6.51 (5.35 - 7.82)	9.16 (5.68 - 13.23)	12.22 (8.9 - 16.49)	3.03 (1.37 - 5.83)	2.29 (1.29 - 3.72)	9.25 (6.03 - 12.89)	13.99 (10 - 18.01)	3.07 (1.35 - 5.69)	3.41 (2.02 - 5.29)
Saint Lucia	High-middle SDI	22.07 (19.95 - 24.4)	33.12 (31.76 - 34.39)	6.53 (5.57 - 7.68)	26.29 (24.16 - 28.69)	31.95 (30.48 - 33.29)	32.83 (32.2 - 33.26)	12.92 (11.91 - 14.02)	37.29 (35.46 - 39.13)	5.07 (4 - 6.27)	7.99 (6.65 - 9.51)	2.03 (1.44 - 2.75)	2.62 (1.96 - 3.46)	4.47 (3.56 - 5.71)	7.95 (6.66 - 9.39)	2.67 (1.95 - 3.62)	3.7 (2.8 - 4.73)
Saint Vincent and the Grenadines	High-middle SDI	23.86 (21.69 - 25.93)	30.21 (28.46 - 31.68)	9.33 (8.06 - 10.68)	19.66 (17.63 - 21.89)	39.34 (37.81 - 40.13)	30.97 (30.17 - 31.25)	26.52 (24.28 - 29.13)	40.34 (37.74 - 43.14)	9 (7.22 - 10.74)	10.97 (8.99 - 12.83)	3.63 (2.59 - 5.02)	3.98 (3.01 - 5.11)	15.17 (12.89 - 17.7)	16.56 (14.16 - 18.49)	10.51 (8.03 - 13.4)	10.39 (8.08 - 13.08)
Samoa	Middle SDI	36.53 (35.26 - 37.46)	26.37 (26.67 - 25.78)	30.63 (27.35 - 34.18)	54.61 (49.73 - 59.53)	36.93 (36.05 - 37.11)	26.09 (26.57 - 25.28)	36.6 (32.97 - 40.32)	58.21 (53.16 - 62.95)	14 (11.2 - 16.76)	16.33 (13.63 - 18.88)	16.48 (11.49 - 21.55)	20.67 (14.37 - 27.46)	15.41 (12.84 - 18.22)	17.12 (14.45 - 20.36)	19.12 (13.74 - 25.36)	22.63 (15.95 - 29.57)
Sao Tome and Principe	Low-middle SDI	16.52 (14.48 - 18.75)	19.91 (18.04 - 21.64)	3.55 (2.77 - 4.45)	9.19 (7.47 - 11.18)	25.52 (23.6 - 27.33)	26 (24.22 - 27.64)	8.29 (6.74 - 10.13)	17.3 (14.75 - 20)	4.71 (3.46 - 6.24)	8.14 (6.14 - 10.31)	1.89 (1.19 - 2.86)	2.6 (1.69 - 3.86)	7.23 (5.3 - 9.62)	9.87 (7.33 - 12.56)	2.38 (1.55 - 3.44)	2.82 (1.89 - 3.99)
Saudi Arabia	High-middle SDI	32.35 (31.33 - 33.24)	31.95 (31.13 - 32.49)	11.41 (10.85 - 11.97)	26.51 (25.69 - 27.53)	38.78 (38.34 - 39.18)	30.32 (30.17 - 30.45)	29.75 (28.89 - 30.67)	43.07 (42.11 - 44.07)	6.12 (5.52 - 6.76)	11.06 (10.19 - 11.98)	2.58 (2.24 - 2.97)	4.48 (3.98 - 5.06)	15.34 (14.21 - 16.52)	19.31 (17.96 - 20.47)	11.1 (10.05 - 12.17)	13.81 (12.53 - 15.19)
Senegal	Low SDI	14.68 (12.68 - 16.91)	15.26 (13.24 - 17.17)	2.92 (2.28 - 3.68)	5.63 (4.48 - 6.89)	19.43 (17.47 - 21.42)	23.24 (21.54 - 24.83)	4.69 (3.86 - 5.59)	11.45 (9.7 - 13.41)	3.24 (2.3 - 4.4)	4.96 (3.69 - 6.4)	0.99 (0.61 - 1.5)	1.26 (0.8 - 1.84)	2.8 (2.07 - 3.83)	6.31 (4.7 - 8.06)	1.53 (0.97 - 2.23)	2.17 (1.45 - 3.21)
Serbia	High-middle SDI	39.84 (38.18 - 41.25)	29.23 (27.58 - 30.99)	14.67 (12.17 - 17.35)	18.14 (15.65 - 21)	42.02 (41.15 - 42.74)	29.87 (29.14 - 30.54)	18.34 (17.13 - 19.55)	22.49 (21.12 - 23.92)	10.83 (9.16 - 12.7)	13.08 (10.54 - 15.65)	5.4 (3.62 - 7.43)	5.63 (3.87 - 7.69)	12.39 (10.19 - 14.94)	13.57 (10.78 - 16.21)	5.67 (4.24 - 7.48)	5.31 (3.88 - 7.17)
Seychelles	High-middle SDI	19.74 (16.73 - 22.73)	27.12 (25.38 - 28.89)	3.51 (2.73 - 4.39)	16.66 (14.19 - 19.25)	32.96 (31.39 - 34.65)	32.33 (31.53 - 33.29)	16.5 (14.7 - 18.41)	33.52 (31.38 - 35.86)	5.15 (3.66 - 6.77)	8.31 (6.36 - 10.76)	2.44 (1.53 - 3.65)	3.5 (2.36 - 5.04)	8.2 (6.03 - 10.81)	11.6 (8.96 - 14.7)	4.8 (3.26 - 6.81)	5.86 (4.05 - 8.06)
Sierra Leone	Low SDI	8.78 (7.54 - 10.07)	16.57 (14.73 - 18.66)	2.49 (1.93 - 3.19)	6.92 (5.6 - 8.49)	13.74 (12.2 - 15.03)	19.58 (18.18 - 20.87)	6.71 (5.68 - 7.98)	10.7 (9.37 - 12.14)	4.63 (3.5 - 6.1)	7.43 (5.71 - 9.56)	2.41 (1.51 - 3.57)	2.71 (1.75 - 4.06)	7.22 (5.52 - 8.98)	10.25 (8.07 - 12.8)	4.94 (3.33 - 7.02)	4.93 (3.29 - 6.93)
Singapore	High SDI	24.39 (23.17 - 25.29)	21.18 (19.6 - 22.65)	4.3 (3.37 - 5.51)	6.2 (5.11 - 7.39)	29.46 (28.41 - 30.31)	22.74 (21.4 - 24.2)	8.38 (6.78 - 10.12)	8.85 (7.58 - 10.29)	9.78 (8.46 - 11.02)	8.35 (6.87 - 9.93)	3.33 (2.28 - 4.68)	2.61 (1.78 - 3.62)	13.59 (12.16 - 15.06)	10.89 (9.03 - 12.88)	6.63 (4.68 - 8.9)	4.06 (2.72 - 5.65)
Slovakia	High SDI	45.74 (44.03 - 47.08)	28.95 (27.8 - 30.54)	14.91 (12.63 - 17.6)	19.12 (16.53 - 21.76)	50.4 (48.89 - 51.91)	28.25 (27.54 - 29.41)	13.24 (11.29 - 15.25)	17.64 (15.13 - 19.79)	10.45 (8.46 - 12.12)	9.51 (7.52 - 11.67)	4.22 (2.89 - 6.04)	3.16 (2.13 - 4.5)	12.23 (10.15 - 14.62)	8.28 (6.47 - 10.44)	5.47 (3.82 - 7.59)	2.81 (1.88 - 3.93)
Slovenia	High SDI	41.72 (40.05 - 43.45)	28.76 (27.04 - 30.07)	13.36 (11.02 - 15.83)	14.48 (12.19 - 17.02)	45.67 (44.21 - 46.71)	27.07 (26.18 - 27.87)	17.16 (14.9 - 19.53)	18.45 (16.01 - 21.11)	15.13 (12.48 - 17.72)	13.54 (11.04 - 16.53)	4.74 (3.27 - 6.66)	3.83 (2.67 - 5.24)	21.1 (17.81 - 23.97)	15.48 (12.77 - 18.38)	7 (5.02 - 9.59)	5.7 (4.13 - 7.8)
Solomon Islands	Low-middle SDI	26.49 (23.66 - 29.22)	28.25 (25.6 - 30.47)	12.2 (9.95 - 14.49)	22.76 (18.77 - 26.89)	34.32 (32.09 - 35.92)	31.1 (30.05 - 31.99)	22.12 (19.33 - 25.19)	34.48 (29.61 - 39.37)	8.04 (5.73 - 10.49)	15.14 (11.59 - 18.94)	4.35 (2.73 - 6.59)	9.16 (5.73 - 13.57)	12.83 (9.62 - 16.38)	19.25 (15.64 - 23.31)	8.47 (5.68 - 11.91)	14.38 (9.32 - 20.25)
Somalia	Low SDI	9.37 (7.15 - 11.69)	17.95 (15.72 - 20.17)	2.49 (1.43 - 4.15)	8.43 (6.47 - 10.68)	10.69 (8.32 - 13.17)	19.39 (17.61 - 21.13)	2.48 (1.5 - 3.95)	10.46 (8.33 - 12.79)	4.48 (2.83 - 6.44)	6.26 (4.49 - 8.1)	2.6 (1.27 - 4.78)	2.83 (1.73 - 4.37)	4.26 (2.74 - 6.18)	7 (5.01 - 9.3)	2.45 (1.21 - 4.3)	3.19 (1.96 - 4.83)
South Africa	Middle SDI	25.39 (24.56 - 26.45)	28.19 (28.09 - 28.27)	12.98 (12 - 13.92)	31.21 (30.24 - 32.28)	26.14 (25.14 - 27.04)	28.24 (28.06 - 28.41)	14.69 (13.81 - 15.54)	44.57 (43.74 - 45.35)	11.27 (10.13 - 12.7)	13.56 (12.89 - 14.22)	5.95 (4.97 - 7.02)	6.46 (5.79 - 7.18)	12.46 (11.21 - 13.74)	16.75 (16.01 - 17.61)	7.66 (6.54 - 8.96)	9.97 (9.16 - 10.83)
South Korea	High SDI	17.14 (15.92 - 18.39)	19.88 (18.12 - 21.59)	1.27 (0.92 - 1.69)	2.47 (2.01 - 3.05)	27.69 (26.32 - 29.07)	21.53 (19.96 - 23.09)	2.81 (2.23 - 3.51)	3.11 (2.65 - 3.61)	11.02 (9.5 - 12.45)	9.46 (7.58 - 11.22)	2.8 (1.8 - 4.08)	2 (1.32 - 2.91)	18.06 (16.17 - 19.65)	12 (10.03 - 14.01)	6.43 (4.36 - 9.01)	3.68 (2.47 - 5.25)
South Sudan	Low SDI	11.32 (8.85 - 14.34)	13.73 (11.89 - 15.8)	3.53 (2.09 - 5.42)	4.04 (2.98 - 5.45)	13.72 (10.53 - 16.76)	20.86 (18.79 - 23.03)	3.79 (2.3 - 5.83)	9.97 (7.72 - 12.55)	6.54 (4.16 - 9.63)	8.71 (6.66 - 11.43)	4.84 (2.58 - 8.04)	5.62 (3.53 - 8.32)	6.48 (4.25 - 9.14)	9.42 (7.21 - 11.97)	5.04 (2.51 - 8.79)	6.4 (4.04 - 9.44)
Spain	High-middle SDI	45.04 (42.64 - 47.06)	29.17 (27.51 - 30.76)	9.55 (8.1 - 11.35)	14.13 (12.14 - 16.29)	46.53 (44.84 - 47.67)	26.78 (25.36 - 28.2)	15.96 (14.15 - 18.15)	19.59 (17.66 - 21.7)	17.85 (14.49 - 21.24)	15.01 (11.54 - 18.1)	8.35 (5.42 - 12.19)	6.85 (4.6 - 9.77)	19.16 (15.26 - 22.78)	16.34 (13.11 - 20.04)	8.63 (5.8 - 12.22)	7.43 (4.98 - 10.01)
Sri Lanka	High-middle SDI	12.34 (10.14 - 14.89)	19.28 (16.92 - 21.92)	1.52 (1.11 - 2.05)	5.02 (4.05 - 6.13)	19.44 (17.55 - 21.47)	28.9 (27.25 - 30.38)	3.52 (2.87 - 4.36)	9.02 (7.77 - 10.42)	3.18 (2.29 - 4.5)	4.07 (3.01 - 5.19)	1.82 (1.15 - 2.7)	1.77 (1.14 - 2.79)	4.94 (3.61 - 6.42)	6.65 (4.86 - 8.34)	2.87 (1.87 - 4.29)	2.99 (2 - 4.32)
Sudan	Low-middle SDI	19.68 (17.36 - 22.22)	27.97 (25.89 - 29.94)	5.48 (4.61 - 6.5)	18.23 (15.99 - 20.54)	28.62 (26.1 - 31.06)	30.31 (28.74 - 31.63)	11.47 (10.01 - 13.12)	28.33 (25.6 - 31.22)	2.85 (2.14 - 3.7)	5.36 (4.1 - 6.72)	1.51 (1.04 - 2.16)	2.23 (1.54 - 3.15)	3.33 (2.44 - 4.37)	5.34 (4.02 - 6.85)	2.13 (1.49 - 3)	2.69 (1.97 - 3.58)
Suriname	High-middle SDI	15.92 (14.07 - 17.82)	28.35 (26.47 - 30.26)	4.7 (3.94 - 5.56)	14.59 (13.03 - 16.29)	35.55 (33.46 - 37.43)	31.81 (31.14 - 32.37)	20.39 (18.24 - 22.58)	36.57 (34.01 - 39.16)	4.44 (3.5 - 5.6)	7.22 (5.94 - 8.67)	1.45 (1 - 2.07)	2.33 (1.74 - 3.05)	9.68 (7.79 - 11.78)	12.16 (10.44 - 14.3)	5.2 (3.78 - 6.95)	5.88 (4.43 - 7.54)
Swaziland	Middle SDI	26.02 (23 - 28.84)	28.79 (27.83 - 29.54)	11.84 (9.69 - 14.2)	27.85 (25.49 - 30.42)	23.68 (22.53 - 24.57)	29.19 (28.86 - 29.38)	12.66 (11.3 - 14.1)	36.82 (35.06 - 38.57)	11.96 (8.7 - 15.55)	16.41 (14.13 - 19.05)	4.4 (2.82 - 6.37)	6 (4.55 - 7.75)	8.2 (5.95 - 11.26)	14.87 (12.71 - 17.23)	2.39 (1.54 - 3.56)	5.04 (3.77 - 6.47)
Sweden	High SDI	41.42 (39.02 - 43.48)	25.2 (23.93 - 26.51)	7.59 (6.51 - 8.87)	11.94 (10.38 - 13.75)	47.7 (46.43 - 48.85)	28.65 (27.72 - 29.61)	15.94 (13.97 - 18.01)	20.6 (18.31 - 22.91)	13.9 (10.55 - 17.27)	13.54 (10.75 - 16.91)	2.75 (1.83 - 3.97)	3.02 (2.13 - 4.17)	20.61 (16.44 - 24.86)	15.76 (12.67 - 19.02)	4.37 (3.09 - 6.11)	4.24 (3.08 - 5.65)
Switzerland	High SDI	41.02 (38.08 - 43.57)	21.44 (19.59 - 23.23)	7.74 (6.41 - 9.22)	9.37 (7.76 - 11)	45.28 (43.35 - 46.76)	25.96 (24.66 - 27.05)	12.37 (10.85 - 14.14)	14.52 (12.96 - 16.31)	14.38 (10.54 - 18.47)	10.18 (7.58 - 13.95)	2.55 (1.47 - 4.01)	1.7 (1.02 - 2.65)	14.89 (10.99 - 18.93)	11.01 (8.12 - 14.17)	4.38 (2.9 - 6.31)	3.62 (2.37 - 5.16)
Syria	Middle SDI	38.52 (36.13 - 41.12)	34.34 (32.38 - 35.97)	14.16 (12.57 - 15.88)	23.62 (21.25 - 26.03)	43.08 (40.91 - 45.04)	35.09 (33.73 - 36.18)	19.89 (17.94 - 21.98)	30.22 (27.58 - 32.96)	10 (7.6 - 12.52)	12.28 (9.62 - 15.16)	3.56 (2.44 - 4.9)	5.29 (3.83 - 7.04)	13.34 (10.6 - 16.36)	13.03 (10.52 - 15.98)	7.38 (5.4 - 9.79)	6.26 (4.57 - 8.32)
Taiwan	High SDI	23.48 (20.56 - 26.19)	22.83 (20.92 - 24.92)	3.13 (2.22 - 4.22)	5.5 (4.13 - 6.9)	32.02 (29.97 - 33.99)	24.05 (22.8 - 25.29)	7.6 (6.04 - 9.33)	8.25 (6.81 - 9.94)	13.78 (11.39 - 16.68)	10.74 (8.83 - 12.93)	6.8 (4.23 - 10.04)	3.82 (2.24 - 5.75)	16.16 (13.61 - 18.57)	11.85 (9.55 - 14.02)	8.35 (5.36 - 11.89)	4.34 (2.69 - 6.61)
Tajikistan	Middle SDI	20.25 (18.19 - 22.16)	23.43 (21.64 - 25.25)	3.39 (2.73 - 4.24)	9.95 (8.79 - 11.13)	19.82 (17.93 - 21.81)	26.11 (24.72 - 27.48)	3.93 (3.1 - 4.82)	12.94 (11.76 - 14.27)	7.77 (6.27 - 9.41)	8.94 (7.21 - 10.49)	3.97 (2.6 - 5.59)	3.08 (2.27 - 3.98)	5.84 (4.65 - 7.22)	7.33 (6.09 - 8.69)	3.06 (2.12 - 4.15)	2.47 (1.83 - 3.27)
Tanzania	Low-middle SDI	16.75 (13.53 - 20.36)	12.93 (11.48 - 14.61)	6.47 (4 - 9.81)	5.22 (3.95 - 6.79)	13.52 (11.72 - 15.57)	23.46 (21.99 - 24.7)	3.73 (2.72 - 4.92)	11.47 (9.94 - 13.28)	6.61 (4.23 - 9.91)	7.79 (5.56 - 10.76)	2.39 (1.11 - 4.64)	1.62 (0.89 - 2.64)	7.09 (4.37 - 10.23)	9.92 (7.29 - 13.15)	2.81 (1.49 - 4.87)	2.76 (1.66 - 4.31)
Thailand	High-middle SDI	16.36 (13.79 - 19.21)	16.26 (14.27 - 18.31)	3.06 (2.3 - 3.92)	4.95 (3.91 - 6.09)	25.48 (22.81 - 28.19)	26.12 (24.07 - 28.12)	7.84 (6.25 - 9.51)	12.19 (10.33 - 14.06)	4.71 (3.5 - 6.22)	5.28 (4.03 - 6.78)	2.72 (1.8 - 4.02)	3.32 (2.24 - 4.73)	9.26 (6.72 - 12.24)	8.46 (6.62 - 10.54)	6.39 (4.38 - 8.76)	5.67 (3.97 - 7.79)
The Bahamas	High SDI	25.13 (22.94 - 27.39)	30.72 (28.61 - 32.65)	8.26 (7.2 - 9.58)	18.25 (16.42 - 20.09)	39.99 (38.02 - 41.57)	32.68 (32.02 - 33.18)	19.96 (17.86 - 22.09)	34.28 (31.8 - 36.87)	10.7 (8.63 - 12.92)	12.38 (10.62 - 14.49)	3.58 (2.55 - 5)	3.83 (2.87 - 4.89)	15.06 (12.33 - 17.81)	17.03 (14.63 - 19.42)	7.99 (5.96 - 10.37)	8.15 (6.42 - 10.26)
The Gambia	Low SDI	11.31 (9.74 - 13.15)	15.56 (13.56 - 17.69)	1.78 (1.4 - 2.27)	4.59 (3.66 - 5.56)	27.35 (25.2 - 29.55)	23.51 (22.29 - 24.72)	9.16 (7.62 - 10.84)	13.27 (11.87 - 14.84)	3.18 (2.3 - 4.44)	6.19 (4.49 - 8.13)	0.55 (0.32 - 0.86)	0.86 (0.51 - 1.3)	7.25 (5.48 - 9.58)	8.78 (6.74 - 11.19)	2.09 (1.29 - 3.1)	2.45 (1.57 - 3.55)
Timor-Leste	Low-middle SDI	2.61 (2.09 - 3.25)	5.77 (4.81 - 6.89)	0.24 (0.17 - 0.36)	1.01 (0.77 - 1.29)	8.17 (7.16 - 9.3)	12.18 (10.69 - 13.71)	0.82 (0.67 - 1.01)	2.1 (1.76 - 2.51)	2.5 (1.78 - 3.45)	2.33 (1.68 - 3.14)	1.71 (1.07 - 2.51)	1.27 (0.77 - 1.98)	2.82 (1.99 - 3.92)	4.11 (3.08 - 5.13)	2.33 (1.49 - 3.53)	2.4 (1.55 - 3.6)

Table S3. The age-standardized prevalence of overweight and obesity among children and adults by sex in 1980 and 2015 among 195 countries.

Country	SDI Level	1980				2015				1980				2015			
		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Adult (ages >= 20) Prevalence of Overweight		Adult (ages >= 20) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity		Child (ages 2 - 19) Prevalence of Overweight		Child (ages 2 - 19) Prevalence of Obesity	
		Males	***Females***	***Males***	***Females***	***Males***	***Females***	***Males***	***Females***	***Males***	***Females***	***Males***	***Females***	***Males***	***Females***	***Males***	***Females***
Togo	Low SDI	8.07 (6.81 - 9.41)	11.13 (9.69 - 12.6)	1.01 (0.77 - 1.32)	3.04 (2.38 - 3.82)	16.17 (14.48 - 17.9)	23.01 (21.45 - 24.54)	3.4 (2.83 - 4.02)	13.18 (11.34 - 15.12)	2.5 (1.78 - 3.31)	3.39 (2.54 - 4.43)	0.52 (0.31 - 0.83)	0.97 (0.61 - 1.5)	5.7 (4.13 - 7.52)	7.2 (5.48 - 9.19)	1.39 (0.87 - 2.08)	2.4 (1.61 - 3.5)
Tonga	Middle SDI	32.97 (31.49 - 33.61)	29.15 (29.81 - 28)	35.25 (31.73 - 39.08)	53.27 (48.31 - 58)	32.72 (33.38 - 32.32)	26.57 (27.36 - 25.07)	48.22 (44.4 - 51.82)	61.32 (56.73 - 65.56)	14.34 (11.12 - 18.06)	18.02 (14.27 - 21.19)	10.47 (6.92 - 14.82)	13.96 (9.58 - 19.48)	23.9 (20.05 - 27.75)	25.69 (21.43 - 29.83)	16.22 (11.74 - 21.57)	16.35 (11.02 - 22.49)
Trinidad and Tobago	High SDI	28.09 (26.07 - 30.29)	29.87 (28.55 - 31.25)	12.76 (11.1 - 14.47)	23.11 (21.05 - 25.21)	36.03 (34.79 - 37.2)	26.94 (26.3 - 27.56)	20.3 (18.5 - 22.07)	34.25 (31.82 - 36.66)	3.37 (2.63 - 4.16)	5.36 (4.42 - 6.45)	1.69 (1.17 - 2.33)	1.34 (0.97 - 1.79)	10.76 (8.78 - 12.72)	12.01 (10.02 - 14.09)	6.29 (4.62 - 8.22)	6.42 (4.94 - 8.02)
Tunisia	Middle SDI	27.2 (24.46 - 30.46)	29.04 (26.6 - 31.58)	5.37 (4.51 - 6.32)	13.55 (11.76 - 15.46)	40.06 (37.16 - 42.39)	33.42 (31.63 - 35.1)	12.08 (10.69 - 13.77)	23.25 (20.82 - 25.79)	6.01 (4.43 - 7.98)	7.37 (5.74 - 9.29)	1.42 (1 - 2)	2.05 (1.38 - 2.84)	13.04 (9.9 - 16.46)	13.46 (10.65 - 16.5)	4.1 (2.89 - 5.53)	4.23 (3.05 - 5.77)
Turkey	High-middle SDI	36.38 (33.62 - 39.28)	29.95 (28.04 - 31.6)	10.95 (9.6 - 12.38)	21.46 (19.05 - 23.85)	44.85 (43.3 - 46.15)	32.4 (31.93 - 32.86)	20.96 (19.33 - 22.66)	35.02 (33.18 - 36.96)	7.04 (5.16 - 9.3)	9.03 (7.03 - 11.6)	1.63 (1.12 - 2.28)	1.94 (1.37 - 2.66)	12.66 (10.03 - 15.51)	11.02 (8.75 - 14.2)	6.97 (5.2 - 9.01)	5.85 (4.2 - 7.77)
Turkmenistan	High-middle SDI	35.3 (33.4 - 37.29)	29.75 (28.53 - 30.97)	9.35 (7.77 - 11.1)	17.7 (15.97 - 19.55)	41.58 (40.66 - 42.08)	32.47 (31.84 - 33.63)	17.04 (14.32 - 19.97)	26 (23.83 - 28.13)	10.33 (8.39 - 12.61)	11.04 (9.21 - 12.88)	4.06 (2.68 - 5.85)	3.54 (2.59 - 4.61)	15.44 (12.79 - 18.17)	13.83 (11.65 - 15.84)	7.38 (5.2 - 10)	5.82 (4.43 - 7.44)
Uganda	Low SDI	8.15 (6.11 - 10.52)	13.64 (11.81 - 15.57)	1.56 (0.83 - 2.59)	3.75 (2.7 - 4.94)	10.87 (9.17 - 12.88)	25.53 (23.5 - 27.47)	2.43 (1.84 - 3.2)	12.68 (10.99 - 14.49)	6.28 (3.7 - 9.51)	8.78 (6.22 - 11.45)	1.79 (0.78 - 3.52)	1.82 (1.03 - 3.11)	4.61 (2.61 - 6.88)	10.5 (7.69 - 13.94)	1.33 (0.61 - 2.61)	2.36 (1.37 - 3.52)
Ukraine	High-middle SDI	38.41 (37.13 - 39.62)	30.35 (29.84 - 30.9)	11.33 (9.89 - 12.9)	23.57 (21.42 - 25.73)	38.91 (37.62 - 39.92)	30.36 (29.9 - 30.86)	13.35 (11.87 - 15.09)	26.06 (23.86 - 28.17)	7.52 (6.24 - 9.01)	5.49 (4.43 - 6.69)	1.95 (1.41 - 2.58)	1.46 (1.03 - 1.96)	10.66 (9.04 - 12.45)	7.06 (5.73 - 8.57)	3.13 (2.23 - 4.22)	2 (1.46 - 2.69)
United Arab Emirates	High SDI	38.48 (37.18 - 39.89)	28.87 (27.58 - 30.1)	25.19 (22.55 - 27.54)	31.2 (28.11 - 34.14)	38.09 (36.4 - 39.81)	31.43 (30.31 - 32.49)	25.66 (23.21 - 28.19)	31.63 (28.86 - 34.55)	17.16 (13.88 - 20.73)	18.13 (14.23 - 21.67)	10.48 (7.99 - 13.42)	9.72 (7.3 - 12.68)	16.27 (12.91 - 19.49)	17.58 (13.99 - 21.56)	11.33 (8.54 - 14.24)	10.28 (7.87 - 13.32)
United Kingdom	High SDI	42.88 (42.35 - 43.37)	30.33 (29.83 - 30.78)	14.8 (14.07 - 15.51)	17.55 (16.78 - 18.33)	43.51 (43.36 - 43.63)	31.98 (31.73 - 32.18)	23.4 (22.64 - 24.12)	24.88 (24.15 - 25.67)	13.46 (10.65 - 16.55)	16.19 (13.31 - 19.4)	5.03 (3.51 - 6.84)	5.86 (4.31 - 7.79)	18.97 (15.46 - 22.8)	19.95 (16.6 - 23.58)	7.03 (4.93 - 9.64)	8.01 (6.14 - 10.19)
United States	High SDI	40.34 (39.99 - 40.65)	26.35 (26.17 - 26.57)	10.67 (10.31 - 11.03)	14.98 (14.57 - 15.4)	39.84 (39.95 - 39.73)	29.46 (29.47 - 29.4)	30.66 (30.07 - 31.27)	35.45 (34.92 - 36)	12.2 (11.81 - 12.71)	11.61 (11.21 - 11.99)	5 (4.68 - 5.32)	5.11 (4.8 - 5.45)	15.79 (15.39 - 16.14)	15.82 (15.34 - 16.22)	12.99 (12.29 - 13.72)	12.4 (11.79 - 13.06)
Uruguay	High-middle SDI	40.82 (37.52 - 43.78)	31.15 (29.21 - 32.89)	15.03 (12.74 - 17.14)	19.85 (17.47 - 22.42)	41.96 (39.32 - 44.29)	31.82 (30.3 - 33.41)	18.99 (16.52 - 21.54)	23.64 (21.02 - 26.21)	9.42 (6.68 - 12.6)	11.83 (9.82 - 13.46)	3.15 (2.01 - 4.65)	9.28 (6.97 - 12.48)	14.84 (10.75 - 19.27)	13.63 (11.53 - 15.82)	5.57 (3.69 - 7.98)	11.06 (8.45 - 14.05)
Uzbekistan	High-middle SDI	36.23 (34.58 - 37.49)	27.39 (25.62 - 28.76)	14.31 (12.17 - 16.75)	13.15 (11.8 - 14.66)	36.65 (36.14 - 37.14)	30.93 (30.36 - 31.26)	17.4 (16.58 - 18.29)	27.99 (26.66 - 29.42)	12.13 (10.34 - 14.05)	9.96 (8.42 - 11.48)	9.91 (7.18 - 13.05)	6.02 (4.58 - 7.82)	13.96 (11.63 - 16.52)	13.35 (11.28 - 15.43)	6.99 (5.09 - 9.45)	6.46 (5.05 - 8.07)
Vanuatu	Low-middle SDI	22.15 (19.38 - 25.17)	18.29 (16.16 - 20.2)	7.79 (6.34 - 9.49)	19.08 (15.89 - 22.43)	29.15 (27.39 - 31.02)	33.91 (32.94 - 34.93)	13.33 (12.04 - 14.74)	23.33 (20.82 - 25.91)	5.76 (4.06 - 7.64)	7.6 (5.38 - 9.99)	2.86 (1.76 - 4.38)	5.49 (3.39 - 8.46)	8.08 (5.8 - 10.55)	12.79 (9.03 - 16.76)	4.31 (2.81 - 6.3)	5.64 (3.5 - 8.42)
Venezuela	High-middle SDI	20 (17.63 - 22.35)	27.34 (25.23 - 29.33)	6.71 (5.21 - 8.48)	15.88 (13.33 - 18.97)	39.6 (38.12 - 40.58)	35.88 (35.35 - 36.54)	19.18 (15.53 - 23.15)	30.61 (26.64 - 34.29)	10.44 (7.87 - 13.26)	13.47 (10.29 - 16.82)	3.32 (2.02 - 4.9)	3.74 (2.48 - 5.29)	16.17 (13.24 - 19.09)	18.65 (15.1 - 22.59)	8 (5.33 - 11.42)	8.46 (5.97 - 11.62)
Vietnam	Middle SDI	3.03 (2.39 - 3.87)	4.98 (4.16 - 5.97)	0.14 (0.1 - 0.19)	0.58 (0.44 - 0.78)	10.55 (8.98 - 12.25)	11.62 (10.22 - 13.23)	1.23 (0.95 - 1.56)	2.03 (1.61 - 2.53)	1.17 (0.8 - 1.6)	1.28 (0.91 - 1.75)	0.36 (0.22 - 0.59)	0.48 (0.29 - 0.75)	4.8 (3.49 - 6.42)	4.48 (3.27 - 5.79)	2.36 (1.56 - 3.39)	1.94 (1.21 - 2.96)
Virgin Islands, U.S.	High SDI	27.5 (25.2 - 29.91)	31.91 (30.25 - 33.81)	10.6 (9.17 - 12.14)	22.2 (20.13 - 24.23)	42.25 (40.98 - 43.09)	31.23 (30.85 - 31.83)	28.06 (25.52 - 30.71)	43.34 (40.69 - 45.79)	13.02 (10.8 - 15.34)	16.28 (14.08 - 18.42)	7.44 (5.45 - 9.77)	9.85 (7.76 - 12.36)	19.35 (17.13 - 21.54)	20.53 (18.81 - 22.81)	15.81 (12.37 - 19.26)	18.62 (15.29 - 21.85)
Yemen	Low-middle SDI	13.5 (11.57 - 15.64)	19.91 (17.29 - 22.65)	1.9 (1.56 - 2.29)	4.79 (3.94 - 5.78)	24.47 (21.85 - 27.26)	25.35 (23.89 - 26.82)	5.34 (4.5 - 6.29)	12.77 (11.52 - 14.21)	2.69 (1.98 - 3.58)	9.27 (7.12 - 11.63)	0.45 (0.29 - 0.64)	2.48 (1.73 - 3.37)	5.13 (3.78 - 6.71)	8.62 (6.57 - 10.97)	1.28 (0.88 - 1.79)	3.73 (2.64 - 5.16)
Zambia	Low-middle SDI	20.85 (17.59 - 23.9)	21.28 (19.28 - 23.51)	9.14 (6.02 - 13.07)	9.09 (7.04 - 11.17)	17.66 (14.54 - 20.3)	24.98 (23.64 - 25.98)	6.81 (4.54 - 9.59)	14.22 (12.03 - 16.8)	14.25 (9.78 - 19.09)	12.49 (9.33 - 15.41)	7.28 (3.87 - 11.91)	4.57 (2.66 - 7.06)	15.01 (11 - 19.73)	16.95 (13.99 - 19.41)	11.56 (7.12 - 17.59)	9.22 (5.77 - 13.66)
Zimbabwe	Low-middle SDI	17.75 (15.33 - 20.45)	23.36 (22.34 - 24.61)	5.85 (4.57 - 7.35)	14.77 (13.04 - 16.54)	14.83 (12.83 - 16.91)	24.74 (23.89 - 25.52)	4.83 (3.88 - 5.87)	19.16 (17.18 - 21.16)	8.99 (6.44 - 12.04)	10.14 (8.39 - 11.96)	2.86 (1.8 - 4.26)	2.4 (1.76 - 3.24)	5.62 (3.94 - 7.93)	11.13 (9.18 - 13.2)	1.86 (1.19 - 2.72)	2.29 (1.66 - 3.03)

Table S4. Disability adjusted life years (DALYs), deaths, and years lived with disability (YLDs) attributable to high body mass index (BMI) caused by the below causes in males and females in 1990 and 2015. Rates presented as number per 100,000 at the Global level for all adults over the age of 25, age-standardized.

Cause	1990 DALYs		2015 DALYs		1990 Deaths		2015 Deaths		1990 YLDs		2015 YLDs	
	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
Ischemic heart disease	674.06 (374.26 - 1012.62)	441.67 (279.54 - 624.03)	597.59 (350.59 - 870.58)	360.63 (240.5 - 491.5)	30.21 (16.27 - 46.88)	23.49 (14.3 - 34.15)	25.44 (14.49 - 38.17)	18.65 (11.85 - 26.53)	20.15 (9.34 - 35.54)	18.16 (9.95 - 29.08)	23.42 (11.47 - 39.59)	20.31 (11.53 - 31.72)
Ischemic stroke	133.92 (69.47 - 213.4)	140.95 (87.91 - 209.12)	116.91 (64.62 - 177.7)	99.76 (64.73 - 141.92)	6.19 (3.11 - 10.32)	6.98 (4.05 - 10.98)	5.13 (2.71 - 8.33)	4.8 (2.84 - 7.42)	9.03 (4.01 - 16.26)	10.09 (5.56 - 16.96)	10.51 (5.1 - 17.71)	10.87 (6.33 - 17.44)
Hemorrhagic stroke	291.15 (148.11 - 467.83)	309.29 (186.37 - 454.3)	302.92 (174.16 - 443.92)	243.39 (161.33 - 335.02)	10.21 (4.99 - 16.88)	11.03 (6.4 - 16.81)	10.23 (5.59 - 15.62)	8.61 (5.46 - 12.37)	8.27 (3.85 - 14.63)	10.56 (5.88 - 17.35)	10.75 (5.53 - 17.83)	11.5 (6.86 - 17.91)
Hypertensive heart disease	88.7 (42.88 - 148.14)	102.72 (58.83 - 154.28)	90.99 (52.06 - 137.94)	93.2 (59.61 - 128.6)	4.23 (1.84 - 7.6)	5.26 (2.68 - 8.47)	4.4 (2.22 - 7.34)	5.1 (2.79 - 7.71)	2.15 (0.88 - 4.08)	2.89 (1.48 - 4.88)	3.04 (1.39 - 5.39)	3.88 (2.08 - 6.28)
Diabetes mellitus	263.9 (150.09 - 400.29)	321.24 (212.24 - 451.08)	419 (260.66 - 598.06)	435.92 (309.22 - 588.74)	5.36 (3.02 - 8.02)	6.9 (4.59 - 9.46)	8.04 (4.93 - 11.47)	8.61 (6.02 - 11.47)	137.85 (68.76 - 225.53)	165.59 (98.85 - 254.06)	229.05 (125.88 - 352.47)	245.55 (153.55 - 361.77)
Chronic kidney disease	92.04 (45.88 - 149.24)	96.69 (56.26 - 146.39)	129.17 (70.53 - 197.9)	123.96 (77.1 - 176.01)	3.33 (1.56 - 5.62)	3.2 (1.67 - 4.98)	4.85 (2.45 - 7.7)	4.51 (2.5 - 6.83)	23.43 (11.5 - 39.59)	29.1 (16.37 - 45.16)	29.06 (15.5 - 46.42)	33.71 (19.94 - 50.8)
Esophageal cancer	36.89 (6.28 - 82.55)	16.67 (0.62 - 37.75)	36.34 (6.86 - 74.45)	12.25 (0.49 - 25.58)	1.61 (0.27 - 3.61)	0.75 (0.03 - 1.71)	1.65 (0.31 - 3.41)	0.58 (0.02 - 1.23)	0.39 (0.07 - 0.88)	0.18 (0.01 - 0.41)	0.49 (0.09 - 1.04)	0.18 (0.01 - 0.38)
Colon and rectum cancer	29.43 (14.81 - 46.42)	9.63 (4.24 - 17.23)	31.52 (17.01 - 48.05)	8.95 (4.06 - 15.68)	1.49 (0.74 - 2.38)	0.49 (0.21 - 0.87)	1.59 (0.85 - 2.44)	0.46 (0.2 - 0.8)	1.14 (0.52 - 1.94)	0.36 (0.15 - 0.67)	1.59 (0.79 - 2.6)	0.44 (0.19 - 0.81)
Liver cancer	39.98 (9.72 - 90.75)	13.7 (2.14 - 31.98)	54.14 (15.26 - 109.67)	14.26 (2.41 - 30.8)	1.59 (0.4 - 3.56)	0.57 (0.09 - 1.33)	2.17 (0.61 - 4.41)	0.65 (0.11 - 1.41)	0.32 (0.07 - 0.75)	0.12 (0.02 - 0.3)	0.51 (0.14 - 1.05)	0.17 (0.03 - 0.38)
Gallbladder and biliary tract cancer	3.46 (0.59 - 7.54)	12.88 (6.94 - 20.19)	2.91 (0.51 - 6.23)	8.71 (4.89 - 13.44)	0.18 (0.03 - 0.4)	0.66 (0.35 - 1.04)	0.16 (0.03 - 0.34)	0.46 (0.25 - 0.72)	0.05 (0.01 - 0.11)	0.17 (0.08 - 0.29)	0.05 (0.01 - 0.1)	0.13 (0.07 - 0.22)
Pancreatic cancer	5.68 (-0.09 - 14.14)	6.07 (2.24 - 11.3)	6.49 (-0.1 - 15.53)	7.1 (2.71 - 12.77)	0.27 (0 - 0.68)	0.32 (0.12 - 0.59)	0.32 (-0.01 - 0.77)	0.38 (0.14 - 0.68)	0.05 (0 - 0.14)	0.06 (0.02 - 0.13)	0.07 (0 - 0.17)	0.08 (0.03 - 0.16)
Breast cancer	-	15.96 (8.49 - 25.9)	-	21.77 (12.39 - 34.07)	-	0.79 (0.44 - 1.24)	-	0.98 (0.58 - 1.49)	-	1.84 (0.9 - 3.18)	-	3.09 (1.61 - 5.17)
Uterine cancer	-	22.12 (14.07 - 31.48)	-	21.68 (14.96 - 28.92)	-	0.92 (0.58 - 1.29)	-	0.88 (0.61 - 1.17)	-	1.72 (1.01 - 2.68)	-	2.68 (1.66 - 4.07)
Ovarian cancer	-	3.42 (-0.11 - 7.88)	-	3.41 (-0.12 - 7.58)	-	0.14 (0 - 0.32)	-	0.14 (0 - 0.31)	-	0.11 (0 - 0.27)	-	0.12 (0 - 0.29)
Kidney cancer	8.12 (4.2 - 13.06)	6.23 (3.78 - 9.16)	9.59 (5.32 - 15)	6.35 (4.1 - 8.95)	0.37 (0.19 - 0.6)	0.29 (0.17 - 0.42)	0.44 (0.24 - 0.7)	0.3 (0.19 - 0.42)	0.31 (0.14 - 0.55)	0.25 (0.14 - 0.42)	0.64 (0.31 - 1.08)	0.5 (0.3 - 0.79)
Thyroid cancer	0.98 (0.28 - 2.01)	1.17 (0.61 - 1.94)	1.39 (0.42 - 2.76)	1.24 (0.68 - 1.93)	0.04 (0.01 - 0.09)	0.05 (0.03 - 0.09)	0.05 (0.02 - 0.1)	0.05 (0.03 - 0.07)	0.08 (0.02 - 0.16)	0.11 (0.06 - 0.21)	0.36 (0.1 - 0.71)	0.32 (0.17 - 0.55)
Leukemia	5.86 (2.44 - 10.92)	7.18 (2.99 - 13.26)	6.84 (3.13 - 12.22)	7.69 (3.43 - 13.52)	0.25 (0.11 - 0.47)	0.29 (0.12 - 0.54)	0.3 (0.14 - 0.54)	0.32 (0.14 - 0.56)	0.22 (0.08 - 0.42)	0.24 (0.09 - 0.45)	0.32 (0.14 - 0.61)	0.34 (0.14 - 0.61)
Osteoarthritis	17.21 (7.73 - 30.65)	32.13 (17.42 - 52.46)	24.57 (11.76 - 42.2)	43.58 (24.85 - 69.51)	-	-	-	-	17.21 (7.73 - 30.65)	32.13 (17.42 - 52.46)	24.57 (11.76 - 42.2)	43.58 (24.85 - 69.51)
Low back pain	33.61 (14.47 - 62.1)	42.68 (21.97 - 74.73)	40.66 (19.07 - 72.26)	50.64 (27.81 - 84.65)	-	-	-	-	33.61 (14.47 - 62.1)	42.68 (21.97 - 74.73)	40.66 (19.07 - 72.26)	50.64 (27.81 - 84.65)

Table S5. Decomposition of percent changes in cause-specific deaths and disability-adjusted life years (DALYs) related to high body mass index from 1990 to 2015 due to population growth, population ageing, risk exposure and the underlying rates of deaths and DALYs by quintiles of Socio–demographic Index.

Deaths	**Low SDI**	**Low-middle SDI**	**Middle SDI**	**High-middle SDI**	**High SDI**
Cardiovascular Diseases					
% change due to population ageing	-1.26	34.71	59.19	43.7	21.65
% change due to population growth	125.05	74.34	41.71	21.29	7.59
% change due to risk exposure	60.28	78.94	76.29	35.93	23.22
% change due to risk-deleted mortality rate	-41.17	-40.31	-71.43	-63.86	-57.14
Total % change	142.9	147.68	105.77	37.05	-4.68
Diabetes Mellitus					
% change due to population ageing	-5	45.92	70.32	54.77	26.18
% change due to population growth	140.08	92.22	60.83	45.52	14.91
% change due to risk exposure	96.21	105.64	105.44	45.98	39.85
% change due to risk-deleted mortality rate	-18.44	31.3	-21.08	-46.51	-59.3
Total % change	212.84	275.09	215.51	99.75	21.64
Neoplasms					
% change due to population ageing	-6.43	32.8	75.98	56.57	28.75
% change due to population growth	126.68	76.4	26.57	27.67	11.88
% change due to risk exposure	80.73	77.86	86.7	49.82	25.97
% change due to risk-deleted mortality rate	-33.68	-31.4	-62.94	-46.97	-24.11
Total % change	167.3	155.65	126.31	87.09	42.49
DALYs	**Low SDI**	**Low-middle SDI**	**Middle SDI**	**High-middle SDI**	**High SDI**
Cardiovascular Diseases					
% change due to population ageing	-0.93	34.53	59.27	47.01	24.45
% change due to population growth	128.18	77.64	45.19	25.89	9.75
% change due to risk exposure	60.04	85.16	84.96	43.95	29.01
% change due to risk-deleted DALY rate	-43.37	-44.59	-78.19	-73.99	-64.7
Total % change	143.92	152.75	111.23	42.87	-1.49

Table S5. Decomposition of percent changes in cause-specific deaths and disability-adjusted life years (DALYs) related to high body mass index from 1990 to 2015 due to population growth, population ageing, risk exposure and the underlying rates of deaths and DALYs by quintiles of Socio−demographic Index.

Diabetes Mellitus					
% change due to population ageing	-3	45.51	70.77	60.92	31.73
% change due to population growth	147.1	95.43	64.98	51.83	21.92
% change due to risk exposure	89.39	116.9	119.9	65.25	61.79
% change due to risk-deleted DALY rate	-7.55	18.65	-25.83	-35.34	-47.3
Total % change	225.94	276.49	229.82	142.67	68.14
Neoplasms					
% change due to population ageing	-5.85	33.2	76.29	60.79	32.94
% change due to population growth	129.03	79.77	28.37	30.79	14.1
% change due to risk exposure	82.2	82.87	94.42	57.59	30.07
% change due to risk-deleted DALY rate	-36.3	-34.11	-64.53	-53.09	-25.64
Total % change	169.07	161.73	134.56	96.08	51.47
Musculoskeletal disorders					
% change due to population ageing	-3.5	35.81	70.46	54.23	23.74
% change due to population growth	137.06	82.99	52.06	35.28	15.27
% change due to risk exposure	72.32	81.12	83.59	42.83	32.42
% change due to risk-deleted DALY rate	2.19	-5.54	-2.59	-2.18	-4.12
Total % change	208.07	194.38	203.51	130.17	67.32

Table S6. Disability-adjusted life years (DALYs) and mortality rates attributable to high body mass index (BMI) in age-standardized males and females in 1990 and 2015 among 195 countries. Rates presented as number of deaths and DALYs per 100,000.

Country	1990 Deaths		2015 Deaths		1990 DALYs		2015 DALYs	
	Males	**Females**	**Males**	**Females**	**Males**	**Females**	**Males**	**Females**
Afghanistan	166.87 (80.88 - 283.78)	296.28 (170.86 - 460.01)	160.45 (78.57 - 268.15)	292.09 (166.35 - 450.74)	4767.49 (2400.07 - 7893.78)	8437.91 (4934.18 - 12974.5)	4677.45 (2411.08 - 7598.24)	8491.89 (5022.71 - 13139.81)
Albania	67.07 (33.24 - 106.17)	45.15 (24.95 - 68.65)	76.44 (43.78 - 114.91)	47.21 (28.08 - 67.82)	1693.85 (870.18 - 2592.06)	1164.71 (675.02 - 1696.52)	2040.08 (1228.81 - 2911.72)	1250.38 (803.29 - 1722.95)
Algeria	68.16 (35.08 - 107.09)	99.85 (67.23 - 135.31)	83.08 (52.84 - 119.44)	121.92 (92.75 - 156.04)	2102.72 (1156.86 - 3168.52)	3108.69 (2291.23 - 4022.68)	2637.58 (1808.99 - 3554.99)	3668.29 (2926.85 - 4496.76)
American Samoa	282.03 (218.61 - 345.89)	194.8 (158.61 - 233.08)	244.71 (180.79 - 313.55)	226.3 (169.83 - 290.15)	8274.29 (6604.11 - 10017.83)	5366.11 (4491.37 - 6348.11)	7224.62 (5612.79 - 9021.73)	6322.02 (4961 - 7876.81)
Andorra	38.59 (18.5 - 61.48)	17.48 (8.99 - 27.51)	28.82 (15.88 - 44.48)	11.07 (5.43 - 17.88)	1018.09 (527.6 - 1563.26)	516.56 (286.94 - 790.81)	845.65 (510.67 - 1204.28)	393.55 (216.1 - 618.1)
Angola	45.31 (7.28 - 127.09)	68.19 (16.34 - 168.53)	88.55 (26.45 - 237.07)	149.64 (42.75 - 376.46)	1362.84 (237.82 - 3808.45)	1681.98 (432.43 - 4290.26)	2578.44 (843.84 - 6820.75)	3920.97 (1250.62 - 9963.6)
Antigua and Barbuda	77.1 (40.53 - 120.12)	96.04 (61.29 - 133.93)	79.95 (44.64 - 120.15)	91.52 (62.91 - 121.32)	2306.3 (1291.04 - 3434.62)	2657.58 (1826.17 - 3514.24)	2348.21 (1440.35 - 3285.02)	2541.95 (1909.01 - 3235.57)
Argentina	121.84 (77.24 - 167.19)	82.48 (55.92 - 108.65)	94.64 (61.07 - 127.71)	60.21 (42.14 - 78.99)	3049.31 (2011.51 - 4072.53)	2061.46 (1477.52 - 2635.56)	2364.23 (1622.3 - 3078.99)	1535.51 (1130.12 - 1945.6)
Armenia	95.42 (49.32 - 148.64)	113.9 (77.05 - 153.99)	118.64 (71.2 - 168.73)	105.37 (76.16 - 136.49)	2497.03 (1371.22 - 3744.95)	2621.08 (1878.24 - 3386.56)	3276.44 (2077.67 - 4460.77)	2683.16 (2047.21 - 3355.45)
Australia	73.03 (42.55 - 106.6)	50.26 (32.73 - 69.29)	44.7 (29.13 - 61.47)	34.8 (24.12 - 46.24)	1802.66 (1107.21 - 2520.58)	1228.27 (858.05 - 1640.37)	1295.7 (890.56 - 1715.91)	1029.6 (777.47 - 1322.39)
Austria	87.31 (49.64 - 126.5)	54.67 (34 - 76.91)	54.23 (32.58 - 76.99)	39.02 (25.6 - 53.9)	2037.93 (1203.15 - 2857.83)	1215.56 (812.49 - 1641.27)	1337.93 (852.89 - 1824.32)	872.18 (610.91 - 1163.24)
Azerbaijan	140.41 (69.24 - 218.87)	149.65 (99.5 - 204.04)	137.3 (80.41 - 197.05)	122.07 (88.39 - 157.07)	3442.38 (1753.96 - 5252.77)	3403.73 (2439.68 - 4375.73)	3598.09 (2176 - 4990.76)	3157.04 (2418.95 - 3927.35)
Bahrain	133.15 (84.79 - 191.67)	175.15 (129.1 - 222.44)	97.7 (62.06 - 141.26)	99.15 (68.94 - 130.35)	4039.88 (2769.77 - 5453.55)	4907.81 (3800.69 - 6091.08)	3109.58 (2127.83 - 4224.11)	3177.75 (2414.84 - 4028.72)
Bangladesh	13.5 (3.26 - 30.84)	19.07 (5.22 - 42.54)	37.64 (13.28 - 73.96)	37.92 (15.85 - 70.73)	444.23 (116.48 - 967.64)	564.76 (158.87 - 1216.55)	1234.47 (480.89 - 2288.54)	1170.47 (529.42 - 2024.95)
Barbados	96.07 (55.55 - 140.91)	104.02 (71.56 - 137.56)	85.6 (54.87 - 121.05)	111.43 (84.2 - 142.01)	2831.69 (1772.18 - 3926.16)	2953.24 (2156.85 - 3792.11)	2676.88 (1829.98 - 3538.15)	3167.41 (2525.52 - 3875.71)
Belarus	149.01 (90.54 - 210.69)	114.91 (80.13 - 152.62)	199.3 (126.24 - 273.9)	113.55 (80.17 - 149.46)	3837.23 (2391.03 - 5249.27)	2677.73 (1989.91 - 3395.44)	4947.93 (3239.5 - 6632.98)	2620.93 (1966.71 - 3281.37)
Belgium	67.89 (37.45 - 100.53)	46.13 (28.94 - 65.08)	41.75 (24.77 - 59.59)	26.97 (17.6 - 36.9)	1714.48 (980.56 - 2461.55)	1154.11 (758.16 - 1604.46)	1193.49 (749.99 - 1651.74)	826.53 (574.87 - 1119.64)
Belize	85.09 (50.93 - 123.72)	116.86 (83.39 - 152.33)	109.42 (70.96 - 153.13)	136.03 (101.92 - 172.1)	2475.9 (1600.73 - 3414.51)	3194.68 (2399.45 - 3995.25)	3122.35 (2122.01 - 4171.21)	3735.19 (2941.31 - 4605.26)
Benin	26.46 (9.01 - 52.29)	39.36 (19.12 - 64.67)	92.56 (33.97 - 192.65)	112.36 (43.86 - 233.95)	816.94 (295.98 - 1576.44)	1047.67 (539.06 - 1670.68)	2690.32 (1051.46 - 5529.48)	2842.63 (1211.08 - 5766.79)
Bermuda	112.25 (61.38 - 167.84)	89.46 (57.95 - 122.59)	70.5 (42.71 - 101.05)	50.91 (34.13 - 69.7)	3220.42 (1855.25 - 4598.41)	2465.38 (1723.01 - 3261.2)	2045.66 (1316.67 - 2803.49)	1506.16 (1129.33 - 1969.57)
Bhutan	31.38 (10.4 - 62.72)	62.72 (28.06 - 116.79)	49.53 (21.06 - 90.32)	63.52 (31.75 - 102.36)	952.57 (345.06 - 1852.57)	1732.63 (800.43 - 3062.1)	1532.2 (712.98 - 2617.74)	1853.75 (1056.07 - 2805.43)
Bolivia	71.58 (39.69 - 106.24)	82.76 (49.9 - 120.33)	60.45 (34.16 - 92.66)	92.29 (59.68 - 130.84)	2189.42 (1302.45 - 3100.42)	2392.2 (1537.88 - 3341.88)	1869.7 (1121.46 - 2759.11)	2481.92 (1743.71 - 3345.03)
Bosnia and Herzegovina	80.56 (42.52 - 123.06)	72.78 (45.91 - 100.53)	64.9 (38.97 - 93.16)	54.74 (36.96 - 73.48)	2256.93 (1279.56 - 3296.63)	1891.71 (1246.16 - 2556.95)	1952.75 (1228.86 - 2690.97)	1547.51 (1085.89 - 2049.31)
Botswana	46.67 (11.33 - 124.73)	127.87 (41.75 - 309.02)	98.88 (26.34 - 281.81)	208.88 (76.81 - 642.13)	1468.55 (415.24 - 3686.86)	3558.22 (1394.01 - 8356.2)	3103.16 (959.1 - 8574.19)	5679.74 (2467.56 - 17174.47)
Brazil	93.78 (49.44 - 143.68)	90.76 (58.72 - 124.48)	87.4 (55.12 - 120.75)	75.67 (54.37 - 97.69)	2642.58 (1478.24 - 3870.58)	2538.92 (1741.35 - 3354.51)	2457.46 (1665.69 - 3247.79)	2093.18 (1586.49 - 2619.7)
Brunei	49.43 (19.86 - 86.42)	60.86 (31.99 - 95.91)	53.57 (25.56 - 85.77)	50.24 (28.26 - 74.15)	1559.58 (672.26 - 2616.38)	1806.17 (992.47 - 2753.88)	1617.02 (832.5 - 2494.84)	1439.09 (860.64 - 2071.69)
Bulgaria	185.49 (120.08 - 250.36)	138.64 (97.46 - 179.97)	133.95 (79.92 - 187.93)	88.19 (58.35 - 119.32)	4615.63 (3115.67 - 5996.83)	3159.5 (2333.15 - 3983.41)	3380.52 (2097.87 - 4605.07)	2105.47 (1477.87 - 2756.57)
Burkina Faso	13.8 (3.4 - 31.76)	19.32 (6.67 - 39.19)	46.84 (17.41 - 97.24)	71.35 (29.01 - 144.12)	437.55 (115.36 - 979.34)	501.36 (175.05 - 1024.18)	1371.47 (552.84 - 2773.34)	1809.71 (828.35 - 3499.87)
Burundi	43.81 (10.84 - 105.1)	76.85 (26.49 - 154.77)	14.99 (2.72 - 42.33)	28.95 (7.93 - 68.39)	1417.69 (362.59 - 3402.08)	2159.26 (759.94 - 4236.41)	451.93 (89.41 - 1229.7)	799.72 (250.65 - 1815.81)
Cambodia	27.11 (7.29 - 59.88)	44.09 (17.03 - 81.7)	42.03 (15.03 - 81.14)	44.65 (19.35 - 78.02)	835.43 (240.09 - 1801.09)	1218.78 (465.33 - 2251)	1203.34 (451.63 - 2270.1)	1211.87 (532.21 - 2100.78)
Cameroon	45.47 (19.6 - 80.65)	80.12 (46.45 - 121.48)	88.83 (36.09 - 185.19)	128.85 (54.34 - 267.12)	1336.31 (594.93 - 2301.41)	2143.94 (1321.3 - 3107.45)	2568.35 (1130.56 - 5288.09)	3313.05 (1547.61 - 6571.49)
Canada	62.45 (34.66 - 92.65)	37.22 (22.71 - 53.63)	44.37 (27.86 - 61.66)	27.81 (18.11 - 38.05)	1731.91 (1017.28 - 2471.59)	1119.4 (747.21 - 1547.48)	1334.88 (873.16 - 1793.41)	930.14 (648.14 - 1239.68)
Cape Verde	37.82 (15.99 - 67.45)	41.74 (23.57 - 62.82)	58.16 (28.43 - 102.58)	64.86 (40.2 - 98.44)	1186.07 (527.39 - 2026.45)	1243.13 (745.21 - 1808.94)	1744.94 (934.05 - 2869.18)	1868.57 (1250.25 - 2692.75)
Central African Republic	64.34 (25.87 - 120.41)	44.27 (14.53 - 88.27)	90.28 (21.29 - 205.12)	120.49 (30.08 - 282.31)	1936.57 (802.22 - 3539.22)	1122.29 (384.57 - 2198.62)	2802.86 (765.65 - 6327.03)	3233.64 (954.51 - 7570.69)
Chad	19.1 (6.78 - 38.35)	28.73 (12.69 - 53.11)	64.21 (20.97 - 146.39)	101.71 (33.62 - 232.15)	613.74 (228.92 - 1193.4)	728.29 (313.78 - 1347.12)	1982.69 (730.96 - 4339.42)	2702.64 (1059.54 - 5972.82)
Chile	96.31 (60.13 - 134.23)	83.08 (56.48 - 110.38)	67.51 (41.81 - 93.33)	53.35 (36.79 - 71.09)	2342.6 (1527.2 - 3144.93)	2011.49 (1447.87 - 2565.75)	1665.55 (1098.5 - 2221.75)	1348.73 (988.37 - 1733.36)
China	37.75 (12.29 - 74.78)	35.81 (14.87 - 64.92)	49.07 (22.02 - 82.34)	33.66 (17.72 - 53.01)	998.51 (329.11 - 1941.12)	986.18 (416.75 - 1747.66)	1392.88 (670.2 - 2249.33)	929.69 (504.13 - 1435.65)
Colombia	55.12 (26.97 - 88.85)	69.8 (42.48 - 99.22)	47.8 (26.26 - 71.65)	48.75 (30.89 - 67.67)	1549.46 (805.85 - 2390.86)	1892.67 (1217.59 - 2597.71)	1369.78 (827.38 - 1935.08)	1391.62 (976.29 - 1854.95)
Comoros	52.14 (14.07 - 120.78)	63.03 (20.45 - 141.32)	34.18 (10.96 - 78.45)	60.24 (23.28 - 111.55)	1705.79 (534.69 - 3678.89)	1749.55 (618.92 - 3763.81)	1175.4 (449.13 - 2486.86)	1852.3 (873.5 - 3155.14)
Congo	101.47 (40.57 - 183.6)	137.85 (73.54 - 226.72)	71.46 (27.65 - 157.06)	172.85 (73.2 - 326.76)	2822.57 (1160.39 - 4975.39)	3392.79 (1803.68 - 5641.98)	2048.45 (854.89 - 4228.07)	4420.66 (2066.68 - 8045.85)
Costa Rica	52.68 (28.2 - 79.81)	52.87 (32.78 - 72.85)	49.81 (30.42 - 71.88)	44.99 (30.02 - 60.76)	1408.8 (807.48 - 2032.88)	1508.13 (1013.43 - 2025.01)	1399.18 (910.26 - 1902.36)	1327.32 (959.85 - 1722.62)
Cote d'Ivoire	29.12 (9.62 - 60.01)	35.56 (15.38 - 65.73)	55.95 (16.48 - 123.76)	75.66 (27.83 - 153.27)	886.86 (301.54 - 1779.76)	1040.01 (491.09 - 1808.63)	1828 (606.4 - 3867.63)	2172.11 (922.87 - 4189.08)
Croatia	118.66 (67.42 - 170.83)	88.35 (54.5 - 122.64)	85.83 (52.69 - 120.97)	58.03 (37.01 - 80.22)	2980.64 (1804.98 - 4144.68)	1979.34 (1306.55 - 2661.8)	2164.11 (1370.51 - 2940.75)	1341.02 (900.74 - 1828.79)

Cuba	61.33 (32.94 - 92.66)	77.62 (52.69 - 102.49)	55.45 (32.34 - 81.15)	58.86 (40.99 - 77.61)	1771.83 (1008.69 - 2600.09)	2307.43 (1684.96 - 2939.11)	1600.61 (990.24 - 2235.73)	1731.62 (1292.9 - 2187.46)
Cyprus	97.76 (57.4 - 141.78)	60.85 (40.47 - 84.72)	57.56 (34.88 - 81.72)	27.82 (18.14 - 38.05)	2301.62 (1460.93 - 3133.88)	1478.57 (1056.83 - 1947.85)	1628.73 (1048.66 - 2214.83)	907.02 (633.97 - 1205.92)
Czech Republic	173.66 (107.9 - 239.32)	103.21 (67.43 - 141.45)	78.64 (47.99 - 110.46)	51.9 (33.1 - 72.73)	4168.92 (2669.83 - 5566.56)	2359.4 (1623.55 - 3111.49)	2032.67 (1297.66 - 2758.4)	1263.96 (848.66 - 1732.41)
Democratic Republic of the Congo	55.66 (22.01 - 110.12)	68.45 (29.65 - 126.84)	39.84 (13.86 - 84.04)	44.32 (15.87 - 91.93)	1590.25 (672.79 - 2995.69)	1789.5 (840.85 - 3210.61)	1185.67 (453.42 - 2414.03)	1222.77 (499.17 - 2396.83)
Denmark	80.35 (42.1 - 120.89)	42.08 (24.63 - 62.18)	46.21 (27.01 - 65.98)	27.96 (18.4 - 38.97)	1961.24 (1072.02 - 2839.59)	1066.76 (653.29 - 1530.51)	1279.12 (809.83 - 1764.61)	838.75 (590.29 - 1123.09)
Djibouti	37.11 (9.83 - 94)	36.73 (11.8 - 82.76)	102.03 (35.33 - 229.25)	99.06 (37.72 - 231.07)	1189.71 (362.13 - 2830.12)	1023.34 (377.97 - 2220.03)	2974.78 (1137.97 - 6633.14)	2633.35 (1192.19 - 5883.4)
Dominica	64.66 (33.29 - 102.28)	147.27 (106.09 - 188.92)	85.19 (49.63 - 129.42)	122.54 (90.37 - 159.86)	1985.93 (1101.21 - 2985.84)	3781.66 (2890.18 - 4672.42)	2715.88 (1723.57 - 3845.84)	3323.32 (2568.03 - 4108.44)
Dominican Republic	54.3 (28.55 - 83.33)	63.65 (42.06 - 87.97)	79.88 (47.23 - 114.06)	80.58 (58.16 - 104.81)	1620.38 (911.15 - 2371.62)	1892.89 (1329.09 - 2481.62)	2226.08 (1427.04 - 3019.58)	2176.39 (1656.64 - 2712.73)
Ecuador	75.59 (48.42 - 102.87)	68.47 (49.27 - 89.05)	91.7 (59.56 - 128.47)	84.15 (61.09 - 109.63)	2282.92 (1569.15 - 2992.46)	2209.18 (1689.12 - 2763.86)	2607.88 (1779.1 - 3465.2)	2472.1 (1907.52 - 3063.68)
Egypt	153.2 (98.23 - 207.29)	154.38 (116.89 - 192.18)	176.16 (123.4 - 227.98)	154.56 (121.52 - 188.62)	4317.33 (2880.28 - 5717.92)	4251.73 (3367.61 - 5152.98)	5025.64 (3688.34 - 6374.74)	4435.23 (3623.18 - 5284.87)
El Salvador	60.15 (31.1 - 92.84)	69.65 (45.38 - 95.83)	85.79 (52.56 - 121.49)	81.58 (57.55 - 107.54)	1825.31 (1024.68 - 2685.67)	2126.33 (1470.05 - 2813.83)	2639.15 (1718.54 - 3589.48)	2484.47 (1872.69 - 3120.57)
Equatorial Guinea	70.61 (13.3 - 175.15)	105.04 (28.31 - 240.45)	98.44 (36.68 - 277.15)	139.32 (48.2 - 374.16)	2151.62 (459.97 - 5271.16)	2608.79 (751.06 - 6330.46)	2880.55 (1199.94 - 7845.58)	3688.22 (1489.58 - 9771.04)
Eritrea	60.28 (27.59 - 105.48)	51.92 (22.34 - 95.38)	31.31 (8.43 - 81.5)	43.71 (10.76 - 108.58)	1888.27 (918.47 - 3208.16)	1310.92 (565.27 - 2361.21)	1008.58 (312.13 - 2525.4)	1192.83 (348.25 - 2943.19)
Estonia	142.26 (82.59 - 208.03)	94.71 (60.56 - 131.64)	102.1 (65.74 - 140.51)	72.51 (49.4 - 95.75)	3619.28 (2190.04 - 5076.49)	2191.23 (1509.03 - 2897)	2504.56 (1710.49 - 3315.22)	1629.75 (1214.71 - 2052.52)
Ethiopia	32.14 (9.85 - 67.7)	33.25 (11.82 - 66.83)	39.56 (12.29 - 92.04)	50.27 (18.48 - 105.34)	968.39 (299.54 - 1997.48)	853.39 (296.97 - 1729.09)	1100.1 (368.26 - 2404.45)	1299.36 (536.63 - 2602.51)
Federated States of Micronesia	179.19 (88.14 - 290.86)	218 (123.84 - 345.82)	199.34 (107.77 - 330.51)	217.81 (121.01 - 376.27)	5722.66 (3023.21 - 9112.93)	6298.26 (3853.56 - 9566.02)	6344.42 (3605.59 - 10325.01)	6401.5 (3975.87 - 10380.28)
Fiji	256.52 (156.02 - 369.01)	291.01 (199.56 - 404.89)	324.21 (213.49 - 447.77)	342.14 (241.99 - 470.98)	7853.9 (4919.66 - 11155.84)	8385.54 (6071.33 - 11332.08)	9344.54 (6421.25 - 12651.23)	9549.66 (7117.91 - 12408.73)
Finland	111.25 (67.84 - 155.53)	57.61 (36.43 - 81.15)	54.6 (33.98 - 76.13)	34.05 (22.91 - 46.33)	2756.8 (1713.11 - 3757.17)	1384.67 (927.76 - 1865.6)	1475.16 (968.61 - 1992.66)	910.07 (658.21 - 1190.27)
France	52.45 (28.48 - 78.69)	25.94 (15.33 - 37.57)	39.7 (23.13 - 57.15)	20.67 (13.12 - 28.97)	1357.16 (763.85 - 1955.41)	641.82 (391.21 - 919.12)	1096.75 (686.19 - 1526.29)	624.65 (428.86 - 852.1)
Gabon	108.73 (52.93 - 183.09)	117.83 (69.16 - 181.02)	100.29 (46.07 - 197.57)	153.61 (77.26 - 273.91)	3135.09 (1610.44 - 5093.62)	2853.01 (1742.05 - 4221.12)	2920.64 (1474.07 - 5465.05)	3969.06 (2249.74 - 6880.36)
Georgia	122.87 (60.88 - 192.54)	100.54 (62.76 - 140.95)	152.87 (88.08 - 219.47)	88.94 (58.27 - 121.52)	3338.09 (1777.98 - 4962.61)	2423.94 (1601.46 - 3298.78)	4142.28 (2540.66 - 5674.95)	2229.83 (1537.43 - 2922.43)
Germany	106.87 (63.34 - 150.53)	63.4 (39.98 - 89.41)	58.67 (37.25 - 80.18)	39.41 (25.81 - 53.97)	2491.62 (1508.18 - 3402.88)	1376.59 (900.56 - 1879.48)	1503.82 (1012.11 - 2006.17)	977.88 (694.48 - 1286.69)
Ghana	15.93 (4.24 - 38.48)	52.46 (18.75 - 110.29)	70.9 (28.18 - 151.68)	102.26 (37.87 - 222.18)	486.06 (132.99 - 1117.07)	1495.42 (586.9 - 3023.98)	1999.61 (834.75 - 4163.91)	2875.94 (1239.4 - 6017.4)
Greece	81.64 (47.11 - 116.61)	63.28 (40.62 - 87.73)	62.77 (38.64 - 87.02)	42.9 (28.66 - 58.35)	2016.5 (1219.51 - 2764.67)	1447.19 (989.27 - 1930.38)	1706.91 (1115.44 - 2277.36)	1051.95 (747.06 - 1389.23)
Greenland	102.36 (55.69 - 153.08)	72.18 (42.18 - 105.62)	80.86 (49.97 - 113.22)	50.95 (34.24 - 69.59)	2870.49 (1643.63 - 4136.73)	2028.51 (1265.69 - 2838.92)	2173.45 (1396.38 - 2919.9)	1496.47 (1076.48 - 1975.48)
Grenada	96.37 (50.69 - 145.87)	153.42 (112.36 - 197.36)	108.6 (64.51 - 154.93)	161.42 (124.51 - 202.48)	2748.26 (1591.86 - 4013.57)	4140.03 (3211.52 - 5145.22)	3185.76 (2033.34 - 4412.79)	4287.52 (3447.97 - 5181.72)
Guam	148.76 (98.8 - 205.82)	135.52 (98.59 - 176.95)	182.76 (121.62 - 250.29)	145.42 (100.63 - 195.09)	4258.35 (3046.97 - 5589.59)	3818.27 (2997.69 - 4674.07)	5393.04 (3796.38 - 7169.22)	4234.78 (3167.68 - 5350.58)
Guatemala	32.25 (13.84 - 54)	51.13 (31.02 - 73.27)	56.7 (30.38 - 85.9)	78.83 (50.11 - 113.63)	1123.16 (554.39 - 1760.54)	1652.95 (1064.43 - 2282.23)	2106.99 (1266.07 - 2970.31)	2620.24 (1830.98 - 3534.43)
Guinea	18.07 (5.8 - 37.41)	42.95 (20.61 - 71.81)	41.79 (14.51 - 95.13)	79.15 (31.1 - 153.23)	564.35 (189.83 - 1124.45)	1188.81 (587.52 - 1935.71)	1272.82 (461.84 - 2784.35)	2083.01 (896.26 - 3912.6)
Guinea-Bissau	21.94 (3.69 - 71.42)	39.44 (7.5 - 117.92)	57.37 (14.86 - 172.02)	113.3 (25.78 - 321.22)	697.13 (134.05 - 2190.42)	1184.66 (266.26 - 3346.78)	1766.88 (504.32 - 5221.28)	3219.39 (861.98 - 9396.39)
Guyana	144.51 (76.64 - 221.43)	206.88 (148.77 - 265.77)	136.96 (77.54 - 204.09)	199.69 (147.49 - 260.82)	4087.21 (2265.4 - 6058.52)	5498.79 (4098.66 - 6832.78)	3859.55 (2319.28 - 5579.41)	5281.51 (4104.85 - 6673.32)
Haiti	55.92 (22.11 - 101.96)	133.54 (75.64 - 203.99)	68.85 (31.13 - 121)	130.91 (74.6 - 205.77)	1643.7 (696.01 - 2886.14)	3689.8 (2153.79 - 5513.05)	2017.35 (963.78 - 3388.8)	3669.87 (2207.24 - 5647.59)
Honduras	48.68 (22.86 - 79.23)	69.56 (41.92 - 100.08)	80.92 (42.45 - 137.16)	113.6 (69.89 - 163.64)	1576.19 (790.47 - 2429.87)	2141.56 (1371.49 - 2928.42)	2304.8 (1325.83 - 3643.4)	3045.78 (2000.76 - 4212.52)
Hungary	189.34 (124.94 - 249.59)	125.21 (89.45 - 160.77)	98.57 (62.5 - 135.81)	61.85 (40.86 - 84.35)	4992.96 (3449.34 - 6420.61)	3055.28 (2287.77 - 3806)	2682.21 (1776.03 - 3598.38)	1681.19 (1195.32 - 2205.78)
Iceland	78.97 (48.16 - 110.33)	49.13 (33.43 - 67.22)	46.47 (29.12 - 64.41)	22.55 (14.9 - 31.12)	1945.74 (1263.42 - 2601.01)	1214.54 (873.53 - 1571.91)	1256.48 (833.66 - 1659.6)	733.88 (522.76 - 979.62)
India	36.88 (15.71 - 64.97)	42.81 (21.68 - 69.31)	54.07 (26.2 - 88.03)	43.29 (23.71 - 67.04)	1080.45 (470.1 - 1869.68)	1177.61 (609.39 - 1880.97)	1603.01 (815.43 - 2555.55)	1213.51 (696.79 - 1816.26)
Indonesia	22.64 (7.22 - 45.97)	42.06 (19.29 - 71.42)	55.99 (25.66 - 98.23)	74.43 (42.4 - 114.99)	766.38 (257.28 - 1489.86)	1385.15 (673.34 - 2261.68)	1965.58 (999.23 - 3247.65)	2479.05 (1524.74 - 3673.47)
Iran	90.65 (44.82 - 146.47)	98.91 (63.33 - 138.24)	102.34 (56.93 - 162.04)	94.37 (59.81 - 137.6)	2509.36 (1318.44 - 3910.86)	2733.14 (1877.62 - 3632.21)	2846.58 (1712.44 - 4306.27)	2696.7 (1880.04 - 3776.55)
Iraq	234.36 (158.28 - 335.3)	243.66 (171.04 - 324.3)	217.44 (129.14 - 321.12)	206.31 (136.01 - 295.65)	6502.45 (4537.22 - 8970.97)	6404.78 (4660.04 - 8287.78)	6320.96 (4108.69 - 9096.41)	5726.87 (4046.82 - 7892.32)
Ireland	78.95 (44.1 - 118.31)	45.43 (27.36 - 65.43)	53.52 (34.39 - 74.23)	26.08 (16.62 - 37.12)	1947.56 (1137.71 - 2790.98)	1141.6 (729.68 - 1583.93)	1390.15 (956.42 - 1844.05)	760.76 (532.91 - 1026.46)
Israel	87.71 (52.09 - 123.95)	82.56 (57.19 - 107.01)	57.11 (36.35 - 78.59)	41.12 (28.52 - 54.19)	2154.48 (1327.01 - 2966.16)	1880.82 (1365.65 - 2412.64)	1470.18 (978.76 - 1961.47)	1093.15 (817.99 - 1411.84)
Italy	70.09 (37.72 - 103.91)	45.78 (27.83 - 65.07)	45.17 (25.2 - 65.96)	29.71 (17.99 - 42.27)	1704.79 (958.11 - 2435.88)	1059.64 (679.19 - 1470.44)	1122.19 (660.37 - 1596.6)	717.81 (464.13 - 1007.66)
Jamaica	61.17 (31.6 - 96.5)	109.22 (74.03 - 146.48)	79.54 (47.68 - 116.22)	120.56 (85.95 - 158.06)	1740.2 (969.89 - 2596.6)	3063.88 (2231.86 - 3943.18)	2345.32 (1520.86 - 3265.9)	3334.87 (2592.91 - 4139.29)
Japan	23.83 (8.11 - 44.74)	18.07 (7.48 - 31.32)	15.64 (5.62 - 28.85)	9.87 (4.22 - 17.05)	720.53 (263 - 1308.63)	509.14 (220.08 - 875.18)	526.84 (203.33 - 937.49)	321.99 (143.34 - 558.01)
Jordan	144.76 (93.66 - 209.64)	198.5 (146.55 - 258.18)	118.79 (80.11 - 159.98)	107.32 (80.38 - 136.14)	4299.24 (2938.7 - 5943.18)	5362.91 (4165.97 - 6772.99)	3633.73 (2593.68 - 4668.33)	3176.42 (2469.61 - 3918.3)

Kazakhstan	139.79 (80.95 - 200.99)	129.61 (90.34 - 170.01)	161.11 (98.9 - 222.35)	127.32 (90.8 - 168.11)	3532.75 (2042.32 - 5027.14)	3028.5 (2211.63 - 3831.81)	4173 (2598.28 - 5691.67)	3069.41 (2292.48 - 3913.11)
Kenya	20.21 (8.47 - 37.83)	37.15 (19.64 - 60)	35.74 (18.69 - 58.6)	51.58 (32.74 - 74.7)	681.79 (308.69 - 1202.54)	1042.78 (582.56 - 1603.22)	1125.04 (611.97 - 1776.45)	1493.03 (1009.37 - 2060.93)
Kiribati	310.73 (221.24 - 403.87)	282.39 (215.32 - 357.21)	374.79 (262.44 - 504.61)	255.54 (186.24 - 335.26)	9694.59 (7227.64 - 12341.19)	8250.02 (6532.28 - 10180.23)	11692.15 (8466.92 - 15510.3)	7438.98 (5723.86 - 9502.68)
Kuwait	92.16 (64.49 - 119.95)	115.07 (89.13 - 142.14)	93.92 (65.23 - 126.12)	93.62 (70.55 - 120.66)	2860.98 (2115.13 - 3562.76)	3229.06 (2627.21 - 3868.53)	3026.52 (2239 - 3850.22)	2715.3 (2167.35 - 3389.32)
Kyrgyzstan	117.63 (62.71 - 180.12)	116.24 (76.96 - 158.39)	141.52 (81.43 - 205.88)	119.01 (79.83 - 159.89)	3107.68 (1754.55 - 4520.7)	2865.07 (2007.27 - 3749.96)	3772.79 (2277 - 5302.64)	2901.38 (2069.46 - 3752.34)
Laos	31.64 (8.5 - 72.24)	58.68 (22.12 - 117.79)	46.12 (17.17 - 86.79)	59.17 (27.23 - 104.16)	1005.78 (287.27 - 2209.89)	1712.9 (668.82 - 3330.3)	1494.46 (606.01 - 2673.8)	1839.46 (930.97 - 3011.33)
Latvia	161.65 (95.2 - 230.05)	117.38 (80.17 - 155.53)	123.46 (79.11 - 167.73)	82.54 (57.88 - 107.7)	4064.07 (2495.09 - 5596.25)	2672.42 (1942.43 - 3416.35)	3187.14 (2134.66 - 4208.53)	2009.72 (1506.48 - 2526.88)
Lebanon	127.05 (70.44 - 198.48)	122.63 (76.94 - 179.04)	69.44 (35.27 - 113.1)	75.21 (44.75 - 109.7)	3664.48 (2191.82 - 5471.83)	3454.11 (2306.49 - 4827.33)	2251.49 (1351.61 - 3307.16)	2479.97 (1658.62 - 3401.02)
Lesotho	50.14 (18.72 - 96.02)	112.14 (64.94 - 176.69)	144.66 (50.77 - 290.28)	248.06 (112.24 - 492.01)	1469.42 (583.11 - 2734.7)	2951.34 (1848.06 - 4392.29)	4381.54 (1629.03 - 8589.17)	6521.84 (3271.9 - 13015.85)
Liberia	65.2 (31.06 - 113.45)	101.11 (55.69 - 166.62)	65.9 (30.16 - 125.8)	116.73 (53.27 - 202.76)	1957.56 (1009.77 - 3274.97)	2621.25 (1508.18 - 4171.01)	1987.42 (1012.48 - 3610)	3058.01 (1547.35 - 5044.34)
Libya	81.82 (49.93 - 119.9)	103.47 (72.05 - 137.55)	96.82 (59.59 - 141.38)	109.74 (78.24 - 148.04)	2379.37 (1551.14 - 3309.51)	3037.53 (2274.4 - 3882.65)	2904.28 (1926.13 - 3953.48)	3285.73 (2464.74 - 4171.65)
Lithuania	127.93 (75.43 - 182.99)	95.26 (63.81 - 128.71)	115.01 (72.37 - 157.2)	68.25 (48.52 - 89.12)	3347.71 (2047 - 4626.57)	2196.22 (1565.19 - 2852.87)	2979.35 (1938.84 - 3993.89)	1690.43 (1249.6 - 2156.43)
Luxembourg	89.49 (53.56 - 126.18)	56.22 (37.41 - 76.05)	43 (28.21 - 58.41)	28.34 (19.45 - 37.96)	2195.13 (1356.56 - 3025.54)	1417.75 (994.88 - 1870.89)	1282.1 (874.31 - 1700.92)	874.48 (623.11 - 1162.07)
Macedonia	117.33 (69.58 - 166.68)	128.51 (90.22 - 167.84)	108.05 (67.72 - 150.65)	98.1 (69.95 - 127.64)	3027.01 (1906.35 - 4201.44)	2975.18 (2137.28 - 3789.24)	2885.24 (1918.94 - 3876.37)	2430.05 (1797.18 - 3095.54)
Madagascar	53.19 (23.19 - 92.53)	54.28 (22.76 - 98.54)	44.08 (12.94 - 107.34)	56.08 (19.49 - 124.04)	1714.16 (774.53 - 2897.74)	1378.82 (599.41 - 2463.01)	1336.8 (404.21 - 3209.41)	1402.81 (507.58 - 2974.95)
Malawi	21.72 (6.69 - 47.63)	30.85 (10.42 - 63.14)	48.36 (16.89 - 105.87)	45.69 (17.2 - 95.21)	717.1 (242.44 - 1492.73)	846.79 (297.31 - 1682.98)	1298.07 (499.39 - 2755.89)	1264.21 (539.53 - 2423.32)
Malaysia	67.74 (34.8 - 105.17)	63.94 (35.86 - 94.81)	75.58 (42.7 - 114.07)	54.32 (33.42 - 79.24)	1958.5 (1056.22 - 2923.89)	1859.06 (1113.62 - 2674.9)	2313.08 (1374.79 - 3332.28)	1730.12 (1127.18 - 2408.34)
Maldives	32.05 (12.29 - 58.45)	66.95 (33.92 - 109.34)	42.53 (22.4 - 67.33)	38.68 (23.55 - 57.28)	960.26 (398.87 - 1688.25)	1885.77 (1007.23 - 2909.31)	1253.54 (720.79 - 1851.67)	1164.93 (790.65 - 1603.9)
Mali	20.83 (6.62 - 42.57)	43.58 (17.93 - 82.81)	51.57 (23.41 - 102.07)	116.76 (52.91 - 217.25)	647.59 (210.61 - 1291.5)	1168.65 (499.16 - 2177.12)	1534.03 (747.15 - 2864.98)	3034.3 (1485.17 - 5397.15)
Malta	97.03 (59.91 - 135.99)	71.37 (49.32 - 93.74)	57.89 (37.31 - 79.3)	39.14 (27.27 - 52.84)	2432.21 (1584.2 - 3283.97)	1817.64 (1310.08 - 2314.82)	1629.32 (1119.78 - 2151.41)	1126.04 (825.17 - 1459.26)
Marshall Islands	237.27 (161.39 - 320.22)	244.33 (183.01 - 309.97)	282.16 (192.94 - 386.96)	301.65 (220.57 - 403.57)	7584.3 (5375.62 - 9968.88)	7283.93 (5708.17 - 8923.12)	9109.48 (6533.19 - 12102.08)	8925.01 (6792.38 - 11427.77)
Mauritania	40.08 (15.86 - 71.92)	86.44 (50.19 - 130.57)	52.43 (19.11 - 104.76)	107.04 (47.95 - 195.6)	1224.86 (514.05 - 2140.5)	2435.26 (1545.45 - 3525.39)	1548.35 (697.19 - 2988.47)	2815.71 (1429.16 - 4942.57)
Mauritius	118.03 (54.92 - 193.57)	104.79 (62.3 - 151.74)	139.25 (80.85 - 202.18)	131.07 (88.85 - 175.79)	3334.17 (1620.48 - 5260.85)	2812.62 (1781.04 - 3869.78)	3989.98 (2460.64 - 5555.45)	3516.58 (2558.62 - 4503.27)
Mexico	87.74 (58.03 - 117.41)	91.26 (67.39 - 115.57)	103.54 (69.87 - 137.88)	105.02 (78.17 - 131.97)	2837.63 (1961.48 - 3693.97)	2875.83 (2223.25 - 3550.26)	3214.9 (2299.11 - 4130.54)	3003.63 (2318.1 - 3706.49)
Moldova	149.01 (94.95 - 205.24)	153.53 (109.13 - 198.62)	149.74 (102.39 - 197.85)	117.48 (86.57 - 150.69)	3627.68 (2365.38 - 4900.33)	3504.91 (2643.4 - 4345.08)	3654.53 (2626.04 - 4697.89)	2657.2 (2070.88 - 3268.1)
Mongolia	130.39 (71.56 - 196.03)	128.69 (81.61 - 181.1)	192.25 (113.35 - 277.52)	129.45 (83.53 - 178.24)	3475.6 (1988.97 - 5060.98)	3356.38 (2241.07 - 4530.1)	5357.29 (3326.43 - 7440.52)	3484.12 (2393.22 - 4651.26)
Montenegro	111.24 (68.85 - 157.38)	94.94 (63.83 - 129.8)	101.27 (62.66 - 142.82)	74.89 (51.83 - 100.87)	3025.56 (1939.6 - 4112.82)	2473.77 (1761.13 - 3213.7)	2751.89 (1793.74 - 3756.87)	2029.06 (1460.08 - 2628.93)
Morocco	85.04 (45.38 - 131.95)	103.3 (65.82 - 148.45)	77.39 (40.81 - 129.93)	102.62 (57.32 - 158.57)	2490.75 (1420.56 - 3677.57)	2952.07 (1987.75 - 4068)	2336.94 (1332.67 - 3654.03)	3032.87 (1949.93 - 4325.84)
Mozambique	32.15 (10.4 - 64.37)	45.35 (20.54 - 79.06)	74.43 (22.89 - 170.02)	88.21 (31.36 - 208.56)	964.47 (339.63 - 1860.1)	1133.36 (542.92 - 1887.96)	2229.34 (728.99 - 4894.81)	2246.96 (940.83 - 5083.49)
Myanmar	26.19 (6.71 - 63.25)	44.46 (15.53 - 92.41)	64.64 (27.92 - 115.37)	63.29 (30.27 - 111)	829.89 (228.71 - 1902.32)	1339.58 (521.56 - 2666.92)	2042.84 (955.75 - 3507.83)	1941.32 (1048.53 - 3193.51)
Namibia	58.53 (26.37 - 101.72)	82.15 (46.52 - 126.16)	66.26 (25.48 - 135.77)	76.16 (37.76 - 159.14)	1727.97 (815.53 - 2860.32)	2231.44 (1361.32 - 3279.71)	2101.91 (935.94 - 4050.43)	2288.85 (1320.28 - 4255.08)
Nepal	15.27 (4.26 - 34.53)	13.29 (4.08 - 29.85)	44.62 (19.06 - 80.98)	40.97 (18.17 - 72.57)	482.36 (141 - 1072.27)	356.33 (110.61 - 789.36)	1406.79 (647.16 - 2408.11)	1208.44 (599.88 - 2009.6)
Netherlands	63.16 (30.95 - 97.5)	44.04 (27.22 - 61.78)	39.55 (22.85 - 56.85)	25.96 (16.77 - 36.1)	1605.85 (817.76 - 2399.52)	1106.49 (711.07 - 1546.11)	1164.69 (721.15 - 1609.14)	842.99 (582.71 - 1137.95)
New Zealand	84.67 (49.05 - 122.06)	53.95 (34.53 - 74.62)	51.32 (33.5 - 70.2)	35.92 (24.27 - 48.65)	2191.01 (1341.35 - 3040.45)	1426.67 (982.33 - 1898.33)	1526.83 (1069.78 - 2012.09)	1149.77 (838.06 - 1489.49)
Nicaragua	43.08 (21.24 - 68.22)	53.05 (34.39 - 73.37)	83.07 (50.4 - 119.18)	77.97 (53.9 - 103.6)	1319.09 (713.1 - 1987.82)	1726.12 (1205.96 - 2296.69)	2430.63 (1557.6 - 3350.45)	2242.76 (1642.73 - 2846.2)
Niger	21.97 (7.26 - 46.79)	32.02 (14.2 - 59.01)	38.66 (13.58 - 82.49)	53.6 (20.28 - 110.29)	683.18 (239.49 - 1404.6)	880.74 (408.15 - 1553.39)	1184.14 (465.75 - 2437.48)	1443.28 (612.16 - 2827.31)
Nigeria	21.83 (5.47 - 53.9)	39.16 (14.2 - 87.41)	39.15 (18.42 - 78.91)	50.33 (25.01 - 110.12)	678.4 (189.05 - 1564.98)	1095.82 (431.55 - 2293.83)	1203.32 (602.93 - 2231.26)	1391.02 (771.71 - 2839.36)
North Korea	24.09 (5.89 - 57.28)	25.69 (7.84 - 57.31)	28.06 (7.29 - 63.46)	24.11 (7.88 - 49.5)	693.07 (172.17 - 1593.77)	739.16 (239.27 - 1553.19)	820.45 (226.6 - 1833.16)	697.33 (238.31 - 1376.74)
Northern Mariana Islands	95.28 (59.15 - 137.7)	131.27 (91.23 - 177.22)	102.25 (64.84 - 143.87)	99.24 (68.62 - 133.41)	3069.37 (2079.4 - 4173.73)	3974.39 (2941.67 - 5162.31)	3279.81 (2270.26 - 4357.73)	3123.31 (2353.25 - 3934.36)
Norway	69.36 (34.8 - 107.47)	34.61 (19.06 - 52.62)	36.66 (20.73 - 53.55)	21.82 (12.65 - 32.07)	1722.15 (911.24 - 2558.19)	881.35 (524.39 - 1282.02)	1064.29 (657.68 - 1483.58)	677.21 (445.25 - 957.36)
Oman	81.98 (46.3 - 130.96)	89.38 (51.93 - 140.87)	92.32 (56.93 - 131.3)	93.37 (62.9 - 123.7)	2471.6 (1505.95 - 3723.06)	2805.27 (1835.81 - 4077.19)	2927.13 (1965.5 - 3972.02)	3097.22 (2308.67 - 3934.54)
Pakistan	54.27 (21.95 - 98.36)	67.13 (33.15 - 113.44)	105.91 (54.68 - 169.46)	110.61 (64.32 - 166.31)	1543.67 (657.23 - 2752.17)	1869.41 (995.83 - 3001.1)	3009.85 (1619.45 - 4710.84)	3083.68 (1950.6 - 4398.84)
Palestine	114.35 (63.26 - 182.14)	127.99 (77.62 - 197.57)	149.74 (86.79 - 224.96)	118.18 (77.68 - 170.3)	3235.08 (1896.72 - 4980.17)	3467.53 (2290.59 - 5022.72)	4300.81 (2694.85 - 6204.24)	3206.53 (2240.24 - 4368.53)
Panama	25.76 (7.91 - 51.1)	31.93 (14.79 - 53.05)	41 (19.45 - 66.39)	44.99 (27.33 - 66.1)	732.58 (246.06 - 1390.32)	948.23 (488.1 - 1521.39)	1300.08 (695.74 - 1984.71)	1451.1 (974.43 - 2020.88)
Papua New Guinea	123.37 (53.16 - 215.73)	178.68 (92.51 - 285.77)	116.91 (48.57 - 218.45)	194.04 (93.88 - 334.01)	3988.13 (1823.29 - 6852.04)	5405.77 (2924.76 - 8577.4)	3784.7 (1651.05 - 6931.46)	5859.7 (3037.46 - 9686.84)

Paraguay	63.54 (34.77 - 96.48)	75.07 (45.79 - 106.49)	103.42 (65.21 - 150.61)	98.64 (64.25 - 136.03)	1823.48 (1040.49 - 2660.11)	2221.91 (1487.83 - 2985.19)	2955.81 (2011.57 - 4029.44)	2743.01 (1951.6 - 3588.21)
Peru	46.85 (23.87 - 72.8)	55.33 (34.99 - 77.37)	39.66 (24.39 - 58.19)	38.89 (25.26 - 54.17)	1347.86 (746.57 - 2003.47)	1568.4 (1055.78 - 2111.95)	1248.6 (817.1 - 1728.78)	1188.16 (850.98 - 1579.9)
Philippines	39.29 (15.72 - 70.01)	29.43 (13.64 - 48.6)	71.34 (33.39 - 116.73)	55.85 (30.33 - 85.68)	1313.19 (556.04 - 2243.42)	1011.3 (504.12 - 1624.57)	2280.94 (1135.61 - 3600.04)	1877.86 (1072.25 - 2765.8)
Poland	161.11 (98.98 - 222.03)	103.2 (68.39 - 138.85)	89.02 (57.62 - 122.14)	50.31 (34.08 - 68.06)	4211.88 (2724.49 - 5624.54)	2441.2 (1709.73 - 3162.83)	2441.4 (1631.49 - 3231.8)	1315.98 (922.77 - 1736.88)
Portugal	85.37 (47.02 - 125.79)	64.35 (41.6 - 88.66)	58.77 (38.12 - 79.59)	38.16 (26.75 - 49.63)	2160.98 (1244.43 - 3053.03)	1583.01 (1072.97 - 2121.41)	1528.95 (1016.13 - 2041.98)	1047.1 (763.39 - 1374.91)
Puerto Rico	99.09 (62.69 - 136.1)	88.03 (62.39 - 113.97)	103.67 (73.16 - 135.89)	84.4 (65.11 - 106.54)	2878.51 (1925.05 - 3811.16)	2445.48 (1856.56 - 3072.87)	3032.94 (2255.64 - 3828.18)	2371.82 (1897.4 - 2886.87)
Qatar	142.66 (101.74 - 187.76)	209.52 (161.33 - 263.62)	106.55 (69.25 - 154.4)	126.08 (88.18 - 169.05)	4074.55 (3099.85 - 5097.34)	5537.99 (4495.61 - 6656.91)	3236.71 (2297.72 - 4272.38)	3669.83 (2825.13 - 4589.9)
Romania	136.33 (82.46 - 192.54)	109.22 (70.41 - 148.62)	129.81 (85.25 - 178.54)	89.81 (60.73 - 118.77)	3392.47 (2131.31 - 4655.69)	2484.74 (1669.26 - 3285.76)	3228.95 (2198.51 - 4266.93)	1978.87 (1402.19 - 2542.71)
Russia	139.93 (80.48 - 204.05)	114.17 (80.11 - 149.82)	158.89 (101.21 - 217.74)	109.65 (81.2 - 140.42)	3487.66 (2042.64 - 4951.58)	2693.65 (2003.01 - 3411.37)	4088.1 (2678.5 - 5446.48)	2658.37 (2074.91 - 3282.38)
Rwanda	23.84 (5.53 - 57.27)	68.56 (25.73 - 130.94)	25.95 (6.28 - 67.59)	51.46 (18.24 - 114.56)	716.93 (179.72 - 1622.92)	1808.86 (725.08 - 3320.66)	768.66 (212.73 - 1913.88)	1367.71 (554.23 - 2810.1)
Saint Lucia	85.95 (45.55 - 132.95)	162.77 (120.95 - 204.94)	71.18 (40.25 - 106.26)	125.52 (92.66 - 161.58)	2455.66 (1393.76 - 3628.62)	4210.54 (3308.09 - 5122.23)	2195.61 (1365.77 - 3090.53)	3242.66 (2561.64 - 4018.28)
Saint Vincent and the Grenadines	101.35 (59.23 - 148.7)	158.34 (111.15 - 205.45)	152.44 (102.89 - 202.83)	183.56 (141.81 - 225.18)	2939.12 (1854.75 - 4072.5)	4253.15 (3190.69 - 5308.44)	4247.61 (3067.73 - 5482.49)	4731.67 (3847.18 - 5645.27)
Samoa	235.52 (158.21 - 326.5)	241.41 (174.27 - 326.38)	190.97 (131.86 - 259.63)	259.02 (186.47 - 348.77)	6950.64 (4839.33 - 9426.72)	6383.24 (4760.54 - 8383.72)	5436.76 (3922.31 - 7214.35)	6751.43 (5040.17 - 8743.92)
Sao Tome and Principe	36.8 (16.55 - 63.16)	58.11 (32.25 - 91)	60.08 (21.62 - 120.2)	103.16 (42.25 - 200.14)	1125.13 (538.93 - 1862.18)	1653.53 (975.35 - 2502.74)	1827.27 (722.57 - 3545.97)	2855.73 (1300.41 - 5491)
Saudi Arabia	75.17 (46.68 - 107.11)	81.94 (59.04 - 108.39)	84.52 (57.94 - 114.53)	68.3 (51.5 - 87.36)	2296.27 (1512.61 - 3138.79)	2558.78 (1946.15 - 3250.16)	2507.02 (1808.44 - 3261.9)	2165.44 (1693.72 - 2699.84)
Senegal	39.27 (17.06 - 68)	45.2 (23.52 - 77.71)	53.1 (17.79 - 122.56)	82.52 (28.04 - 176.53)	1110.89 (493.84 - 1921.41)	1294.69 (730.27 - 2147.98)	1508.76 (528.72 - 3454.63)	2281.83 (905.98 - 4666.99)
Serbia	133.37 (83.12 - 185.39)	117.83 (79.62 - 157.03)	111.82 (74.88 - 148.41)	91.27 (67.6 - 116.58)	3377.75 (2199.15 - 4583.02)	2855.81 (2045.27 - 3688.81)	2974.58 (2078.07 - 3859.68)	2300.85 (1772.37 - 2891.02)
Seychelles	87.8 (41.42 - 144.5)	127.86 (85.68 - 171.72)	91.19 (53.72 - 134.99)	117.3 (80.03 - 156.29)	2596.57 (1292.54 - 4119.88)	3248.34 (2383.9 - 4105.58)	2761.83 (1775.77 - 3856.73)	3044.79 (2257.81 - 3884.06)
Sierra Leone	23.91 (7.64 - 56.3)	35.09 (14.43 - 67.62)	49.04 (18.61 - 98.1)	104.77 (49.57 - 197.13)	756.55 (257.39 - 1671.38)	1016.8 (470.47 - 1897.32)	1540.04 (659.68 - 2965.6)	2827.4 (1447.3 - 5139.76)
Singapore	51.64 (23.43 - 84.7)	45.68 (23.68 - 70.34)	29.62 (14.37 - 47.63)	22.34 (11.93 - 35.03)	1451.21 (690.65 - 2317.24)	1243.62 (670.57 - 1879.89)	841.4 (443.22 - 1295.46)	622.02 (363.75 - 939.98)
Slovakia	167.39 (104.34 - 231.44)	117.03 (79.61 - 156.26)	93.53 (56.65 - 131.69)	63.65 (42.02 - 87.15)	4319.9 (2792.28 - 5780.33)	2678.96 (1920.9 - 3424.98)	2335.99 (1458.34 - 3197.5)	1504.57 (1050.58 - 1985.44)
Slovenia	94.46 (56.36 - 134.03)	63.13 (40.82 - 86.56)	51.38 (32.09 - 71.91)	31.87 (20.38 - 44.32)	2407.43 (1462.98 - 3332.05)	1530.55 (1031.77 - 2048.02)	1434.58 (923.28 - 1948.47)	920.06 (631.55 - 1241.86)
Solomon Islands	196.98 (98.75 - 323.31)	285.71 (156.26 - 445.35)	256.72 (144.8 - 414.13)	341.01 (196.52 - 532.37)	6333.47 (3392.78 - 10186.88)	8428.89 (5000.11 - 12657.53)	8051.09 (4640.01 - 12766.89)	9773.05 (6111.81 - 14909.51)
Somalia	45.32 (8.43 - 127.53)	107.76 (24.77 - 250.99)	43.5 (9.52 - 112.72)	101.03 (24.23 - 242.51)	1463.89 (330.51 - 3897.13)	2980.19 (780.19 - 6721.4)	1325.42 (330.32 - 3416.05)	2828.67 (834.67 - 6943.8)
South Africa	110.55 (73.08 - 152.04)	205.85 (160.28 - 252.46)	135.09 (90.13 - 183.2)	186.16 (146.11 - 231.02)	3088.65 (2112.21 - 4136.69)	5037.13 (4061.73 - 6045.85)	3757.31 (2665.85 - 4950.67)	4812.55 (3917.61 - 5808.79)
South Korea	49.96 (15.29 - 95.94)	45.32 (19.95 - 75.97)	26.96 (10.69 - 47.39)	18.34 (8.67 - 30.06)	1399.25 (464.79 - 2581.85)	1171.66 (528.83 - 1918.16)	830.33 (349.72 - 1420.98)	540.1 (259.26 - 880.8)
South Sudan	41.7 (9.51 - 123.68)	58.54 (14.08 - 151.13)	47.7 (12.36 - 137.22)	89.69 (22.36 - 238.05)	1352.46 (365.67 - 3711.3)	1649.27 (475.3 - 4235.65)	1459.06 (437.09 - 4085.72)	2501.64 (749.1 - 6533.05)
Spain	67.94 (39.88 - 97.4)	50.01 (33.77 - 67.69)	40.84 (25.2 - 56.98)	27.21 (18.37 - 36.82)	1770.79 (1086.87 - 2429.8)	1218.22 (865.48 - 1601.53)	1131.95 (729.71 - 1540.77)	741.22 (528.71 - 982.48)
Sri Lanka	28.54 (10.57 - 53.03)	30.72 (15.31 - 49.68)	40.63 (16.7 - 75.84)	42.81 (21.22 - 70.25)	899.87 (356.26 - 1602.55)	922.21 (486.84 - 1431.88)	1261.88 (576.94 - 2218.22)	1284.77 (691.45 - 2000.53)
Sudan	96.53 (47.88 - 163.09)	158.56 (95.88 - 242.41)	100.99 (48.21 - 171.25)	146.71 (80.24 - 230.76)	2883.85 (1512.99 - 4693.92)	4378.64 (2790.24 - 6417.82)	3057.86 (1567.55 - 4893.47)	4128.4 (2480.3 - 6203.91)
Suriname	83.56 (44.94 - 126.79)	110.69 (74.06 - 148.58)	116.09 (71.83 - 166.68)	116.9 (87.06 - 153.5)	2467.07 (1430.41 - 3580.21)	3031.19 (2166.12 - 3879.73)	3368.69 (2249.24 - 4552.05)	3225.5 (2537.79 - 4051.33)
Swaziland	144.69 (74.39 - 235.52)	220.03 (131.41 - 327.83)	199.55 (62.39 - 396.87)	284.44 (113.65 - 592.42)	3830.02 (2076.43 - 6161.11)	5361.43 (3416.04 - 7879.92)	5764.37 (2006.9 - 11548.57)	7401.55 (3370.24 - 15052.87)
Sweden	67.99 (34.43 - 103.74)	39.78 (23.36 - 57.86)	43.94 (25.69 - 64.56)	30.07 (18.99 - 41.83)	1693.56 (925.33 - 2466.68)	1028.82 (646.08 - 1435.78)	1190.52 (750.69 - 1651.92)	875.29 (599.06 - 1181.3)
Switzerland	59.13 (32.05 - 88.33)	31.84 (18.66 - 46.84)	36.07 (20.54 - 52.88)	23.23 (14.14 - 33.23)	1414.46 (791.44 - 2055.89)	765.56 (477.65 - 1095.87)	924.62 (546.54 - 1321.55)	590.21 (391.49 - 829.81)
Syria	141.07 (88.35 - 207.47)	145.8 (99.71 - 204.99)	112.72 (67.28 - 164.16)	99.3 (67.92 - 130.98)	4198.09 (2692.56 - 5980.17)	4090.55 (2917.9 - 5508.97)	3305.76 (2135.67 - 4629.67)	2889.24 (2118.53 - 3677)
Taiwan	59.18 (24.86 - 99.68)	55.85 (28.09 - 87.88)	43.36 (20.18 - 73.11)	29.73 (14.73 - 48.14)	1669.69 (739.4 - 2753.02)	1526.82 (815.08 - 2343.02)	1449.56 (733.11 - 2300.93)	1066.72 (618.25 - 1611.54)
Tajikistan	61.24 (24.83 - 109.96)	79.26 (45.53 - 118.36)	57.46 (25.22 - 99.13)	84.01 (52.11 - 119.92)	1622.06 (696.91 - 2769.72)	2075.45 (1256.05 - 2996.78)	1608.88 (756.59 - 2646.59)	2169.57 (1417.23 - 2961.65)
Tanzania	66.12 (32.28 - 107.76)	72.44 (38.47 - 117.78)	37.07 (12.28 - 91.8)	66 (22.22 - 148.43)	1886.71 (966.33 - 2960.75)	1792.24 (1008.8 - 2791.33)	1077.62 (383.06 - 2550.24)	1764.64 (693.79 - 3774.98)
Thailand	31.17 (11.52 - 57.35)	31.61 (14.94 - 52.58)	50.58 (22.88 - 85.63)	41.06 (23.51 - 63.1)	1020.71 (407.54 - 1816.47)	1000.34 (513.19 - 1604.02)	1566.79 (787.95 - 2542.35)	1312.36 (813.96 - 1892.11)
The Bahamas	125.02 (72.36 - 180.93)	137.01 (93.73 - 181.01)	104.35 (66.58 - 147.22)	116.64 (83.88 - 153.85)	3539.96 (2188.87 - 4932.26)	3636.93 (2682.57 - 4604.93)	2996.23 (2033.37 - 4035.95)	3106.05 (2410.42 - 3899.33)
The Gambia	35.71 (12.23 - 80.97)	68.41 (22.3 - 150.94)	60.16 (26.42 - 118.56)	77.2 (34.56 - 139.77)	1113.03 (411.12 - 2481.8)	1884.78 (684.12 - 4025.34)	1806.17 (840.73 - 3441.36)	2047.43 (1017.64 - 3552.2)
Timor-Leste	12.65 (2.14 - 33.63)	23.97 (7.8 - 50.44)	15.61 (4.04 - 35.84)	22.58 (8.73 - 44.83)	385.3 (72.98 - 982.72)	734.31 (256.69 - 1481.67)	514.44 (151.17 - 1122.25)	737.08 (309.79 - 1365.68)
Togo	18.34 (5.39 - 40.44)	36.95 (16.14 - 67.72)	45.17 (13.29 - 96.85)	70.32 (29.51 - 139.13)	569.56 (175.7 - 1211.04)	988.35 (452.99 - 1765.68)	1372.25 (445.33 - 2829.33)	1915.24 (860.86 - 3634.45)
Tonga	162.54 (114.29 - 221.56)	229.08 (172.41 - 296.48)	200 (140.38 - 266.63)	179.66 (129.9 - 241.84)	4870.11 (3631.07 - 6396.49)	6481.26 (5098.47 - 8144.99)	5995.45 (4434.41 - 7878.71)	5232.74 (3968.96 - 6676.82)
Trinidad and Tobago	178.88 (113.42 - 243.74)	189.08 (141.48 - 235.82)	167.14 (110.73 - 228.69)	151.48 (115.52 - 191.62)	5087.2 (3428.3 - 6713.95)	5235.77 (4044.23 - 6376.46)	4808.41 (3345.37 - 6328.65)	4220.04 (3382.55 - 5127.74)

Tunisia	72.56 (37.89 - 111.69)	75.38 (49.39 - 105.75)	71.87 (37.24 - 118.82)	58.44 (34.71 - 87.31)	2065.44 (1134.89 - 3084.82)	2248.31 (1594.15 - 2947.42)	2165.43 (1242.28 - 3352.41)	1889.11 (1269.76 - 2570.83)
Turkey	125.95 (76.89 - 178.24)	112.91 (81.8 - 145.35)	74.13 (48.86 - 99.74)	61.36 (46.16 - 77.26)	3654.52 (2339.69 - 5014.29)	3200.24 (2456.58 - 4043.27)	2315.21 (1604.18 - 3030.03)	2002.61 (1534.25 - 2490.24)
Turkmenistan	154.57 (83.8 - 228.41)	144.53 (96.9 - 193.14)	184.06 (114.97 - 254.7)	138.55 (97.63 - 180.79)	4082.67 (2307.25 - 5828.74)	3639.93 (2540.07 - 4711.78)	4981.55 (3260.37 - 6600.6)	3610.82 (2705.92 - 4523.01)
Uganda	29.69 (9.23 - 63.03)	70.57 (30.84 - 123.92)	39.79 (11.43 - 98.43)	73.83 (25.34 - 155.26)	833.96 (264.44 - 1722.03)	1614.18 (729.09 - 2750.8)	1173.48 (366.49 - 2762.14)	1877.33 (722.4 - 3730.45)
Ukraine	146.84 (88.11 - 208.21)	118.28 (83.21 - 154.9)	154.54 (92.98 - 217.21)	111.15 (77.21 - 145.26)	3608.87 (2217.54 - 4976.42)	2736.72 (2032.41 - 3451.02)	3837.2 (2375.28 - 5252.31)	2601.6 (1931.09 - 3290.83)
United Arab Emirates	128.62 (76.26 - 188.48)	153.14 (100.08 - 214.72)	103.93 (60.16 - 156.17)	103.84 (68.82 - 148.44)	4028.43 (2596.37 - 5648.56)	4675.86 (3270.41 - 6389.66)	3425.1 (2209.42 - 4864.85)	3491.93 (2522.12 - 4661.11)
United Kingdom	97.16 (60.2 - 134.76)	56.51 (37.4 - 77.06)	51.32 (35.1 - 68.1)	30.13 (20.69 - 40.41)	2360.41 (1521.05 - 3195.28)	1356.02 (947.04 - 1795.73)	1390.91 (984.53 - 1801.34)	860.44 (623.82 - 1121.81)
United States	76.45 (43.94 - 111.21)	52.25 (35.29 - 70.93)	72.67 (52.01 - 93.87)	50.08 (38.07 - 62.65)	2217.56 (1356.7 - 3073.57)	1552.09 (1113.42 - 2032.37)	2329.97 (1728.55 - 2936.51)	1686.65 (1332 - 2064.87)
Uruguay	103.98 (61.94 - 148.71)	75.69 (51.32 - 102.11)	77.51 (49.59 - 106.38)	53.42 (37.65 - 69.72)	2579.09 (1610.07 - 3559.15)	1848.5 (1324.12 - 2412.8)	1968.1 (1321.96 - 2605.24)	1317.3 (983.35 - 1675.01)
Uzbekistan	177.7 (108.6 - 252.5)	138.52 (89.23 - 191.56)	163.25 (99.87 - 229.99)	142.89 (100.99 - 186.14)	4413.69 (2849.78 - 5990.48)	3219.68 (2173.71 - 4277.73)	4222.8 (2766.68 - 5646.49)	3494.54 (2659.82 - 4328.77)
Vanuatu	151.06 (73.69 - 258.79)	229.1 (133.79 - 368.2)	186.88 (97.99 - 307.89)	227.7 (126.8 - 378.11)	4749.71 (2409.1 - 7977.85)	6649.91 (4099.57 - 10432.15)	5906.64 (3296.18 - 9536.35)	6640.34 (3957.73 - 10690.74)
Venezuela	85.85 (45.96 - 129.27)	96.5 (64.25 - 130.22)	104.26 (63.41 - 147.23)	85.8 (58.46 - 117.79)	2370.9 (1370.69 - 3392.64)	2596.6 (1833.77 - 3339.64)	2881.75 (1911.17 - 3895.68)	2305.1 (1708.48 - 2973.35)
Vietnam	9.55 (1.88 - 23.94)	13.74 (4.03 - 29.93)	26.07 (8.52 - 53.67)	21.81 (7.69 - 43.1)	301.58 (61.54 - 734.94)	398.16 (121.95 - 832.71)	741.42 (237.94 - 1526.04)	592.88 (230.57 - 1141.89)
Virgin Islands, U.S.	109.55 (66.26 - 156.33)	109.62 (76.96 - 143.06)	133.67 (87.95 - 180.36)	108.24 (81.95 - 135.52)	2986.91 (1919.01 - 4081.66)	2836.12 (2121.6 - 3544.58)	3702.94 (2611.34 - 4819.18)	2822.63 (2296.04 - 3449.01)
Yemen	74.5 (27.15 - 149.71)	106.81 (42.95 - 205.83)	78.14 (31.08 - 158.74)	124.35 (59.22 - 225.41)	2246.97 (881.47 - 4390.23)	3017.44 (1304.31 - 5529.79)	2373.03 (1016.22 - 4579.63)	3639.91 (1893.85 - 6356.37)
Zambia	42.18 (18.29 - 74.55)	98.65 (51.59 - 153.77)	89.21 (36.94 - 159.17)	113.19 (49.16 - 215.87)	1264.35 (585.62 - 2193.06)	2285.79 (1210.99 - 3487.17)	2670.71 (1132.41 - 4687.58)	2871.02 (1353.13 - 5295.06)
Zimbabwe	33.14 (13.4 - 63.72)	73.42 (43.12 - 108.45)	62.6 (22.79 - 124.12)	89.81 (37.97 - 183)	1050.45 (484.92 - 1891.77)	2055.23 (1302.8 - 2859.84)	1921.89 (752.42 - 3634.3)	2633.36 (1348.49 - 4809.23)

Table S7. Comparison of the root-mean-square error (RMSE) from models using only measured data wth the models using both self-reported and measured data

	Measured only	Measured and self-report
Overweight	0.063	0.07
Obesity	0.033	0.036

Table S8. Sources of epidemiological evidence used for assessment of causality between high body mass index and disease endpoints.

Risk	Outcome	Citation/Note
High body-mass index	Oesophageal cancer	Renehan AG, Tyson M, Egger M, Heller RF, Zwahlen M. Body-mass index and incidence of cancer: a systematic review and meta-analysis of prospective observational studies. Lancet 2008; 371: 569–78.
High body-mass index	Colon and rectum cancer	Karahalios A, English DR, Simpson JA. Weight change and risk of colorectal cancer: a systematic review and meta-analysis. Am J Epidemiol 2015; 181: 832–45.
High body-mass index	Colon and rectum cancer	Renehan AG, Tyson M, Egger M, Heller RF, Zwahlen M. Body-mass index and incidence of cancer: a systematic review and meta-analysis of prospective observational studies. Lancet 2008; 371: 569–78.
High body-mass index	Colon and rectum cancer	Schlesinger S, Lieb W, Koch M, et al. Body weight gain and risk of colorectal cancer: a systematic review and meta-analysis of observational studies. Obes Rev 2015; 16: 607–19.
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High body-mass index	Kidney cancer	Renehan AG, Tyson M, Egger M, Heller RF, Zwahlen M. Body-mass index and incidence of cancer: a systematic review and meta-analysis of prospective observational studies. Lancet 2008; 371: 569–78.
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Risk	**Outcome**	**Citation/Note**
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