



# Institute for Health Metrics and Evaluation

## Data Release Information Sheet

### **Data Summary**

Dataset name: Global Tobacco Control and Smoking Prevalence Scenarios 2017

Date of release: January 21, 2021

Date of update: February 4, 2021

#### Summary:

This dataset contains predicted 2017 smoking prevalence levels under unrealized tobacco control policy scenarios: 1) If WHO-attributed country achievement scores for select components of its [MPOWER](#) policy package (smoke-free (P), health warnings (W), and advertising (E)), and cigarette's affordability (RIP) remained at the level they were at in 2008; 2) If the price of a cigarette pack was I\$7.73 or higher; 3) If all countries had implemented each of the P, W, and E policies at the highest level; and 4) If countries had implemented both higher cigarette prices and P, W, and E policies at the highest level. Results were produced by sex and age group globally and for 155 countries. The dataset also includes data used to produce the counterfactual analysis, including [GBD 2017](#) smoking prevalence estimates, different tobacco control policy indicators, cigarette prices and affordability, and more.

#### Relevant publications and visualizations:

- Flor LS, Reitsma MB, Gupta V, Ng M, Gakidou E. The effects of tobacco control policies on global smoking prevalence. *Nature Medicine*. [Publication TBD]

### **Acknowledgements**

#### Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME);

#### Funders:

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#### Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). Global Tobacco Control and Smoking Prevalence Scenarios 2017. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), 2020.

## Data Files Information

### Data Update

The values in the variable **abs\_smokers\_change** in the Counterfactual tobacco control policy scenarios and 2017 smoking prevalence estimates file (IHME\_SMOKING\_TOBACCO\_CONTROL\_2017\_SCENARIOS\_Y2021M02D04.CSV) were updated to explicitly reflect that numbers of absolute number of smokers were calculated in millions.

### File Inventory

File Name	Description	Version Date
IHME_SMOKING_TOBACCO_CONTROL_2017_SCENARIOS_Y2021M02D04.CSV	Counterfactual tobacco control policy scenarios and 2017 smoking prevalence estimates	February 4, 2021
IHME_SMOKING_TOBACCO_CONTROL_2017_SCENARIOS_CODEBOOK_Y2020M12D04.CSV	Codebook - Counterfactual tobacco control policy scenarios and 2017 smoking prevalence estimates	December 4, 2020
IHME_SMOKING_TOBACCO_CONTROL_2017_INPUT_DATA_Y2020M12D04.CSV	Processed input data	December 4, 2020
IHME_SMOKING_TOBACCO_CONTROL_2017_INPUT_DATA_CODEBOOK_Y2020M12D04.CSV	Codebook - Processed input data	December 4, 2020
IHME_SMOKING_TOBACCO_CONTROL_2017_INFO_SHEET_Y2020M12D04.PDF	Data Release Information Sheet	December 4, 2020

### Processed Input Data - Variable Information

Variable	Variable Label	Variable Definition
location_id	Location ID	A unique numeric identifier for the geography generated and stored in an IHME database of data dimensions.
location_name	Location Name	Name of the estimation geography.
sex_id	Sex ID	A unique numeric identifier for the sex generated and stored in an IHME database of data dimensions.
sex_name	Sex	The gender estimated.

<b>Variable</b>	<b>Variable Label</b>	<b>Variable Definition</b>
age_group_id	Age Group ID	A unique numeric identifier for the age group.
age_group_name	Age Group Name	The age group estimated.
year	Year	Time period of the estimate/reported data.
population	Population	The total number of population estimated for that location-year-sex-age group.
smoking_prev	Smoking Prevalence	Mean estimate of current smoking prevalence (from the Global Burden of Disease Study 2017).
smoking_prev_lower	Smoking Prevalence lower	The 2.5th percentile of draws of the smoking prevalence estimate.
smoking_prev_upper	Smoking Prevalence upper	The 97.5th percentile of draws of the smoking prevalence estimate.
lag_cig_price_pack	Cigarette Price	Price of the most sold brand of cigarettes in each location-year (in international dollars) (one-year lagged).
lag_gdp	Gross Domestic Product	Mean estimate of the gross domestic product (one-year lagged).
lag_rip	Relative Income Price	Percentage of the country-specific per capita gross domestic product (GDP) required to purchase a half pack of cigarettes a day for a year (one-year lagged).
lag_p_achievement	Smoke-free Achievement Scores	National-level achievement scores for smoke-free (P) laws (one-year lagged).
lag_w_achievement	Health Warnings Achievement Scores	National-level achievement scores for health warnings (W) laws (one-year lagged).
lag_e_achievement	Advertising Ban Achievement Scores	National-level achievement scores for advertising ban (E) laws (one-year lagged).
lag_per_p	Percent smoke-free measures	Percentage of smoke free-related measures adopted, out of all 12 possible measures reported by the WHO (one-year lagged).

Variable	Variable Label	Variable Definition
lag_per_w	Percent health warnings measures	Percentage of health warnings-related measures adopted, out of all 22 possible measures reported by the WHO (one-year lagged).
lag_per_e	Percent advertising ban measures	Percentage of advertising ban-related measures adopted, out of all 25 possible measures reported by the WHO (one-year lagged).
lag_per_pwe	Percent PWE measures	Percentage of measures adopted out of all 59 smoke free, health warnings, advertising ban possible measures reported by the WHO (one-year lagged).
lag_p_compliance	Smoke-free Compliance Scores	National-level compliance scores for smoke-free policies (one-year lagged).
lag_edirect_compliance	Direct Advertising Ban Compliance Scores	National-level compliance scores for direct advertising bans (one-year lagged).
lag_eindirect_compliance	Indirect Advertising Ban Compliance Scores	National-level compliance scores for indirect advertising bans (one-year lagged).

### Counterfactual Policy Scenarios and 2017 Smoking Prevalence Estimates - Variable Information

Variable	Variable Label	Variable Definition
location_id	Location ID	A unique numeric identifier for the location generated and stored in an IHME database of data dimensions.
location_name	Location Name	The location of the estimate.
sex_id	Sex ID	A unique numeric identifier for the sex generated and stored in an IHME database of data dimensions.
sex_name	Sex	The gender estimated.
age_group_id	Age Group ID	A unique numeric identifier for the age group.
age_group_name	Age Group Name	The age group estimated.

Variable	Variable Label	Variable Definition
year	Year	Time period of the estimate.
gbd_prev	Smoking Prevalence	Mean estimate of current smoking prevalence (from the Global Burden of Disease Study 2017).
gbd_prev_lower	Smoking Prevalence lower	The 2.5th percentile of draws of the smoking prevalence estimate.
gbd_prev_upper	Smoking Prevalence upper	The 97.5th percentile of draws of the smoking prevalence estimate.
gbd_smokers	Population	Mean estimate of the total number of smokers.
scenario	Alternative policy scenarios	Each number represents one of the alternative policy scenarios. 1) If achievement scores and cigarette's affordability (RIP) remained at the level they were at in 2008; 2) If the price of a cigarette pack was I\$7.73 or higher; 3) If countries had implemented each of smoke-free (P), health warnings (W), and advertising (E) policies at the highest level (score = 5); and 4) If countries had implemented both higher cigarette prices and P, W, and E policies at the highest level.
scenario_name	Alternative policy scenarios names	Short name for each alternative policy scenario.
scenario_mean	Predicted smoking prevalence	Mean predicted smoking prevalence.
scenario_lower	Predicted smoking prevalence lower	The 2.5th percentile of the prediction draws.
scenario_upper	Predicted smoking prevalence upper	The 97.5th percentile of the prediction draws.
scenario_smokers	Predicted number smokers	Numbers of smokers based on the mean predicted smoking prevalence.
abs_prev_change	Absolute change smoking prevalence	The absolute change in mean smoking prevalence (status quo x predicted prevalence).
rel_prev_change	Relative change smoking prevalence	The relative change in mean smoking prevalence (status quo x predicted prevalence).
abs_smokers_change	Absolute change number smokers	The absolute change in the number of smokers (status quo x predicted numbers).

Variable	Variable Label	Variable Definition
rel_smokers_change	Relative change number smokers	The relative change in the number of smokers (status quo x predicted numbers).

### ***Additional Information***

#### **Terms and Conditions**

<http://www.healthdata.org/about/terms-and-conditions>

#### **Contact information**

To request further information about this dataset, please contact IHME:

Address:

Institute for Health Metrics and Evaluation  
Population Health Building/Hans Rosling Center  
3980 15th Ave. NE, Seattle, WA 98195 USA  
UW Campus Box #351615

Telephone: +1-206-897-2800

Fax: +1-206-897-2899

Email: [data@healthdata.org](mailto:data@healthdata.org)

Website: [www.healthdata.org](http://www.healthdata.org)

These files may be updated periodically, so we appreciate hearing feedback or additional information about how these data are being used.