

# FACTS

## Decreasing Sugar-Sweetened Beverage Consumption

### Policy Approaches to Address Obesity



#### OVERVIEW

America is in the midst of an obesity epidemic. Currently, 69% of U.S. adults are overweight while more than one-third (35%) are obese. Children are not untouched by this frightening reality as 32% are overweight, 17% of whom are

obese.<sup>1</sup> The American Heart Association supports a multipronged approach to address this problem including creating and implementing policies designed to improve access to affordable, nutritious foods and beverages, thereby making it easier for Americans to choose healthier foods consistent with the *Dietary Guidelines for Americans*.<sup>2</sup> The association also supports examining whether policies such as taxing sugar-sweetened beverages (SSB), adding warning labels to SSB containers, regulating consumption of SSBs in federal nutrition programs [e.g. Supplemental Nutrition Assistance Program (SNAP), Child and Adult Care Feeding Program (CACFP)], and increasing access to water can curb the consumption of sugary drinks, consequently improving the health of all Americans.

#### THE CURRENT LANDSCAPE

The single largest source of calories in the American diet is carbonated soft drinks, providing over 5% of overall caloric intake.<sup>3</sup> The average American consumes the equivalent of 39 pounds of sugar each year from soda and other sweetened beverages.<sup>4</sup> These consumption levels are concerning since several scientific studies have provided evidence linking increased intake of soft drinks to weight gain and an increased body mass index (BMI).<sup>5</sup> These beverages have a high sugar content, produce low satiety levels, and provide incomplete compensation for total energy.<sup>11</sup> Along with weight gain, research also suggests that higher consumption of SSBs is associated with the development of metabolic syndrome and type 2 diabetes.<sup>6</sup>

In 2006, the Alliance for a Healthier Generation, a joint initiative founded by the American Heart Association and the Clinton Foundation, joined forces with leaders of the beverage industry to remove full-calorie soft drinks in schools across the country and replace them with smaller, lower-calorie options. The initiative was successful, resulting in 88% fewer beverage calories shipped to schools across the U.S.<sup>7</sup> Because children have access to SSBs outside of the school setting, interventions and education reinforcing the need to mitigate consumption both inside and outside the school environment is a necessity.<sup>8</sup>

#### ALARMING FACTS

- Children who consume higher amounts of SSBs have a 55% greater chance of being overweight or obese compared to those who consume less SSBs. SSB consumption has been shown to increase body fat mass.<sup>9 10</sup>
- A 20-ounce bottle of soda contains the equivalent of approximately 17 teaspoons of sugar.<sup>11</sup> The American Heart Association recommends that adults consume no more than five to nine teaspoons of added sugar per day.<sup>12</sup>
- Adults who drink one soda or more daily are 27% more likely to be overweight or obese than adults who do not, even after accounting for poverty status and race/ethnicity.<sup>4</sup>
- Full-calorie beverage consumption is on the decline; however, beverage consumption as a whole is increasing, especially with the mid-calorie drinks (e.g. sports drinks, teas, and energy drinks).<sup>13</sup> Even though these mid-calorie drinks may not be as high in sugar, they provide a lot of “empty calories.” Compounding this problem is the fact that energy drinks often do not qualify as beverages, but rather as dietary supplements, which gives the Food and Drug Administration less premarket regulatory control over them.<sup>14</sup>

#### POTENTIAL FOR POSITIVE CHANGE

Studies have shown that diet is linked to economic incentives. For example, for food eaten away from home, soft drinks, juice, and meats are the most responsive to price changes.<sup>15</sup>

- A 10% price increase might decrease consumption of less healthy foods and beverages by 8%.<sup>17</sup>
- Preliminary data from Mexico's one peso/liter excise tax on SSBs shows an approximate 10% decline in purchases of these taxed beverages while demonstrating a 13% increase in plain water purchases during the same time period.<sup>16</sup>
- Vulnerable populations, especially low-income and less educated, as well as children and adolescents, are especially price-sensitive.<sup>17 18 19</sup> They also represent population groups that have the greatest health disparities and would most likely benefit most from lower consumption of sugary beverages.<sup>20</sup>
- One study found that the imposition of a 20% tax on SSBs could result in a state level net job employment increase.<sup>21</sup>
- Healthcare costs attributable to obesity could reach between \$861 and \$957 billion by 2030.<sup>22</sup> Funding for obesity prevention programs could be obtained from taxing SSBs. If a 20 ounce bottle costs \$1.50 and carries a one cent tax/ounce, the

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new cost per bottle would be \$1.70, resulting in over **\$13.3 billion** in total tax revenue.<sup>23</sup>

- In 2014, the nation's first soda tax on SSBs passed in Berkeley, CA. The measure imposes a one cent/ounce general tax on SSBs and sweeteners used to flavor drinks. It provides exemptions for diet drinks, milk products, 100% juice, baby formula, alcoholic drinks, and drinks taken for medical reasons. This tax has been successfully implemented.<sup>24 25</sup>

### THE ASSOCIATION ADVOCATES

Reducing the consumption of SSBs is an important way to improve the health of all Americans. The American Heart Association advocates for:

- Robust nutrition standards in schools and government nutrition programs for meals and snacks that promote healthier offerings (e.g. beverages that are higher in nutrients and without added sugars) and setting limitations on empty calories.
- Comprehensive procurement standards for foods and beverages purchased by employers and governments offered in the workplace, meetings, or conferences.
- Sugary drink excise taxes, preferably in a tiered structure with robust evaluation to assess shifts in consumer purchasing, industry reformulation, population health impact with special attention on vulnerable populations.
- Major supermarket chains to address the cooperative marketing agreements with beverage companies to prioritize the prime placement of healthier beverages in stores.
- Pilot states and/or municipalities to determine the impact of limiting the purchase of full-calorie soda in the SNAP.
- Elimination of marketing SSBs to children.

### CONCLUSION

The American Heart Association also supports additional research to determine how pricing, taxation, and agricultural subsidies on food and beverage consumption patterns could improve the health of Americans, particularly as it relates to the obesity epidemic and related chronic diseases, such as cardiovascular disease, diabetes, and cancer.

The association advises that low- and no calorie beverages like water, diet soft drinks, and fat-free or low-fat milk are better choices than full-calorie soft drinks<sup>26 27</sup> and Americans should try to limit the amount of added sugars in all the foods they eat.<sup>28</sup>

The association further advocates that state and local governments that generate revenue from beverage tax initiatives direct these funds toward public health and obesity education and prevention efforts. Thorough evaluation efforts should also be implemented to determine the efficacy of such programs.

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<sup>16</sup> Salud. Resultados preliminares sobre los efectos del impuesto de un peso a bebidas azucaradas en México. 2014. Retrieved from <http://www.insp.mx/epppo/blog/preliminares-bebidas-azucaradas.html>.

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