Science Facts

SB 203: Warning Labels on Sugary Drinks

STATE OF CALIFORNIA SAFETY WARNING: Drinking beverages with sadded sugar(s) contributes to obesity, diabetes, and tooth decay.

Overwhelming science shows that liquid sugar has a unique role in driving today's skyrocketing diabetes rate, and that sugary drinks are the single largest contributors to the obesity epidemic.

DIABETES AND OBESITY TRENDS:

- Over the past 30 years, adult diabetes rates have nearly tripled,¹ while obesity rates have more than doubled for adults,² tripled for adolescents³ and quadrupled for 6-11 year old children.⁴ In the same period, soda consumption doubled.⁵
- 60 percent of California's adults⁶ and 38 percent of California children⁷ are overweight or obese.
- One in three children born today, including half of Latino and African-American children, are expected to develop diabetes in their lifetime.⁸
- Between 1977 and 2001, Americans' average daily calorie consumption increased by 250-300 calories, 43 percent of which came from a single source: sugary drinks.⁹

WHY SUGARY DRINKS?

- A growing body of research shows unequivocally that sugary beverages because they provide all of their calories as liquid sugar are uniquely harmful.
- We absorb liquid sugar in as little as 30 minutes, much faster than a candy bar, leading to a spike in blood sugar that the body is not well equipped to handle, particularly in repetition.¹⁰ These spikes in blood sugar can overwhelm the body and lead to the transformation of sugar into fat in the liver, as well as the excess production of insulin in the pancreas, which contributes directly to the development of diabetes.¹¹
- Calories from sugary drinks do not satisfy hunger like calories from solid food or milk. As a result, sugary drinks tend to add to the calories people consume rather than replace them.¹³ A single 20-oz. bottle of soda contains 16 teaspoons of sugar,¹² delivering over 240 nutrition-free calories,¹⁴ equivalent in calories to two eggs and two slices of bacon¹⁵ – almost a full breakfast.

THE HARMFUL EFFECTS OF SUGARY DRINKS:

An overwhelming body of scientific research shows that sugary drink consumption significantly contributes to diabetes, obesity and cavities:

- Drinking just one soda a day increases an adult's likelihood of being overweight by 27 percent¹⁶; for children, the likelihood doubles to 55 percent.¹⁷
- Drinking one or two sodas a day increases the risk of developing type II diabetes by 26 percent.¹⁸
- People who consume the average amount of added sugar, equivalent to one soda per day, are 30 percent more likely to die from a heart attack. People who drink 2-3 sodas per day are 2.75 times more likely to die from a heart attack.¹⁹
- Drinking sugary beverages daily for just two weeks increases
 LDL cholesterol and triglyceride levels by 20 percent.²⁰ After six
 months, daily consumption of sugary drinks increases fat deposits
 in the liver by 150 percent, which directly contribute to both
 diabetes and heart disease.²¹
- Children who frequently consume sugary beverages are at dramatically increased risk for dental caries (cavities), which untreated can lead to pain, infection, and tooth loss.²²

Half of Americans drink a soda a day, raising their risk of being overweight, having diabetes or dying of a heart attack by almost 30 percent.

Press Inquiries: Brown•Miller Communications | jonathan@brownmillerpr.com | (800) 710-9333

CALIFORNIA CENTER FOR PUBLIC HEALTH ADVOCACY



HEALTH OFFICERS Association of California **CBHN**



www.sodawarninglabel.org

Science Facts

SB 203: Warning Labels on Sugary Drinks



WHY WARNING LABELS?

- Diabetes costs the state at least \$24.5 billion each year in total health care expenses and lost productivity.²³
- Hospital stays for patients with diabetes, regardless of the primary diagnosis, cost \$2,200 more than other patients, adding an extra \$1.6 billion every year to California's hospitalization costs, including \$254 million in Medi-Cal costs.²⁴ Diabetes also impacts the state more than it should because 95 percent of cases are preventable.
- Soda is a daily habit for almost half of Americans²⁵ and is often purchased without knowledge of the long-term consequences.
- The nation's leading nutrition and public health experts agree that the proposed label is strongly supported by scientific evidence.²⁶
- Warning labels, like those on alcohol and tobacco, have been shown to be effective in decreasing the consumption of harmful products.²⁷
- A sugary drink warning label costs taxpayers nothing and allows consumers to make more informed purchasing decisions.

Sugary drink consumption has doubled over the past thirty years, just as rates of obesity and diabetes have more than doubled.

- 1. National Health Interview Survey. Available at cdc.gov/diabetes/statistics/slides/long_term_trends.pdf.
- Trust for America's Health and Robert Wood Johnson Foundation. F as in Fat: How Obesity Threatens America's Future The State of Obesity: California. 2013. Available at http://fasinfat.org/states/ca/.
 Ogden CL,Yanovski SZ, Carroll MD, Flegal KM. The epidemiology of obesity. Gastroenterology. 2007;132:2087-2102.
- Guo SS, Wu W, Cumlea WC, Roche AF. "Predicting overweight and obesity in adulthood from body mass index values in adolescence." Am J Clin Nutr. 2002;76:653-8.
- 5. Nielsen SJ, Popkin BM. Changes in beverage intake between 1977 and 2001. Am J Prev Med. 2004;27:205-10.
- 6. 2011-12 California Health Interview Survey. Available at ask.chis.ucla.edu.
- Babey SH, Wolstein J, Diamant AL, Bloom A, Goldstein H. A Patchwork of Progress: Changes in Overweight and Obesity Among California 5th-, 7th-, and 9th-Graders, 2005-2010. UCLA Center for Health Policy Research and California Center for Public Health Advocacy, 2011
- Centers for Disease Control and Prevention. Available at http://www.cdc.gov/chronicdisease/resources/publications/AAG/ddt. htm.
- Woodward-Lopez G, Kao J, Ritchie L. To what extent have sweetened beverages contributed to the obesity epidemic? Public Health Nutr. Mar 2011;14(3):499-509.
- JP, Shapira N, Debeuf P, et al. Effects of soft drink and table beer consumption on insulin response in normal teenagers and carbohydrate drink in youngsters. Eur J Cancer Prev 1999;8:289–95.
- Mayes, PA (1993). Intermediary metabolism of fructose. American Journal of Clinical Nutrition. 58: 5, 7545-7655
 Pan A, Hu FB. Effects of carbohydrates on satiety: differences between liquid and solid food. Curr Opin Clin Nutr Metab Care. 2011;14(4):385-390.
- Liquid Candy: How soft drinks are harming Americans' health. Center for Science in the Public Interest. 2005. Available at: http:// www.cspinet.org/new/pdf/liquid_candy_final_w_new_supplement.pdf.
- 14. The Sugar Association. Available at: http://www.sugar.org/just-15-calories-a-teaspoon/.
- 15. USDA. Available at supertracker.usda.gov/foodapedia.aspx.

- Babey SH, Jones M, Yu H, Goldstein H. Bubbling over: soda consumption and its link to obesity in California. Policy Brief UCLA Cent Health Policy Res. Sep 2009(PB2009-5):1-8.
- Morenga LT, Mallard S, Mann J. Dietary sugars and body weight: systematic review and meta-analyses of randomised controlled trials and cohort studies. Brit Med J. Jan 15 2013;346.
- Malik VS, Popkin BM, Bray GA, Despres JP, Willett WC, Hu FB. Sugar-sweetened beverages and risk of metabolic syndrome and type 2 diabetes: a meta-analysis. Diabetes Care. 2010;33(11):2477-2483.
- 19. Yang Q, Zhang Z, Gregg EW, Flanders W, Merritt R, Hu FB. Added Sugar Intake and Cardiovascular Diseases Mortality Among US Adults. JAMA Intern Med. 2014.
- Stanhope KL, Bremer AA, Medici V, et al. Consumption of fructose and high fructose corn syrup increase postprandial triglycerides, LDL-cholesterol, and apolipoprotein-B in young men and women. J Clin Endocrinol Metab.Oct 2011;96(10):E1596-1605.
- Maersk M, Belza A, Stodkilde-Jorgensen H, et al. Sucrose-sweetened beverages increase fat storage in the liver, muscle, and visceral fat depot: a 6-mo randomized intervention study. Am J Clin Nutr. Feb2012;95(2):283-289.
- Sohn W, Burt BA, Sowers MR. Carbonated Soft Drinks and Dental Caries in the Primary Dentition. J Dent Res. 2006; 85(3): 262-266.
- 23. "Diabetes in California Counties." California Diabetes Program. Accessed May 7, 2014. http://www.caldiabetes.org/content.
- Meng YY, Pickett MC, Babey SH, Davis AC, Goldstein H. Diabetes Tied to a Third of California Hospital Stays, Driving Health Care Costs Higher. UCLA Center for Health Policy Research and California Center for Public Health Advocacy, 2014.
- Kit B, Fakhouri T, Park S, et al. Trends in sugar-sweetened beverage consumption among youth and adults in the United States: 1999–2010. Am J (lin Nutr. 2013;86(1):180-188.
 See Press Kit Scientific Panel.
- Hammond, D. "Effectiveness of Gigarette Warning Labels in Informing Smokers about the Risks of Smoking: Findings from the International Tobacco Control (ITC) Four Country Survey," Tobacco Control 15.Suppl_3 (2006): lii19-ii25.

Press Inquiries: Brown•Miller Communications | jonathan@brownmillerpr.com | (800) 710-9333







www.sodawarninglabel.org

