

Childhood Obesity Intervention Cost Effectiveness Study

> Increasing Obesity in the United States: Implications for Disability, and Cost-Effective Interventions to Prevent Obesity and Improve Health Equity Steve Gortmaker PhD



National Disability Forum

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CHOICES PROJECT

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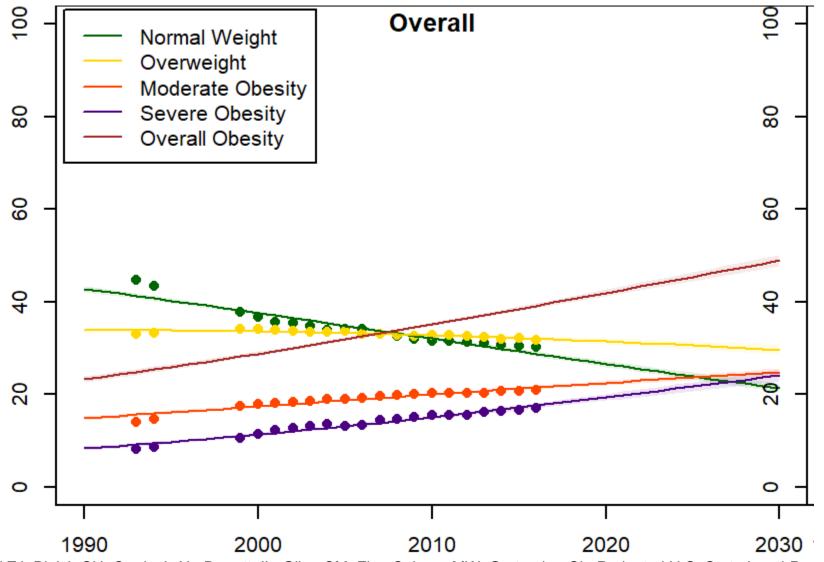
Overview

- Our research predicts increasing obesity and severe obesity throughout the United States, and growing disparities by gender, race/ethnicity, and income.
- Because excess weight is driver of chronic disease (cancer, cardiovascular disease, diabetes) and disability¹, these trends indicate substantial disability in the future.
- We have identified a wide variety of feasible and costeffective strategies that can prevent future excess weight gain and improve health equity.
- We need further implementation studies of how these strategies can work for all population groups and for those with disabilities.

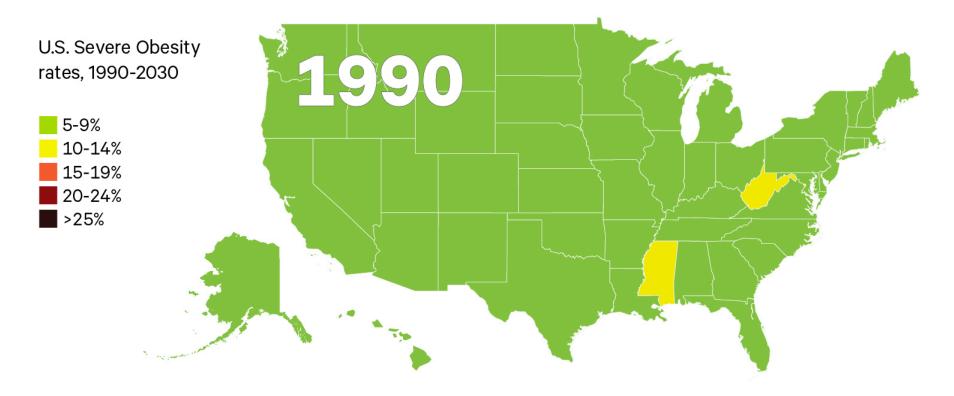
¹Chang VW, Alley DE, Dowd JB. Trends in the Relationship Between Obesity and Disability, 1988-2012. Am J Epidemiol. 2017.



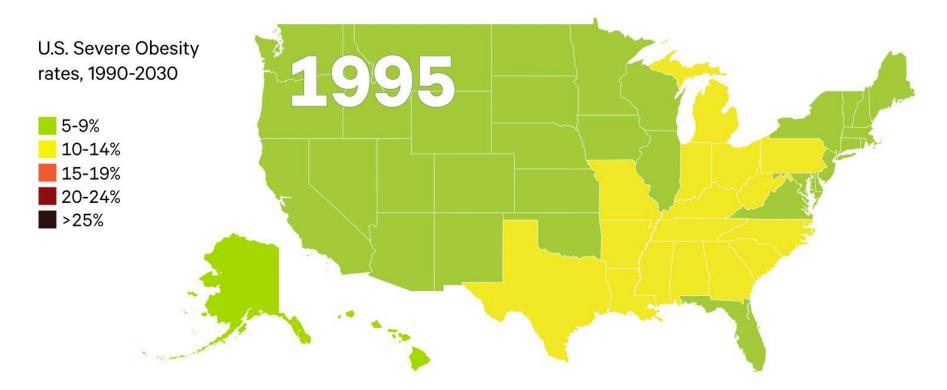
Estimated and Projected Prevalence of Adult Obesity and Severe Obesity in the US to 2030



Ward ZJ, Bleich SN, Cradock AL, Barrett JL, Giles CM, Flax C, Long MW, Gortmaker SL. Projected U.S. State-Level Prevalence of Adult Obesity and Severe Obesity. N Engl J Med. 2019 Dec 19;381(25):2440-2450.

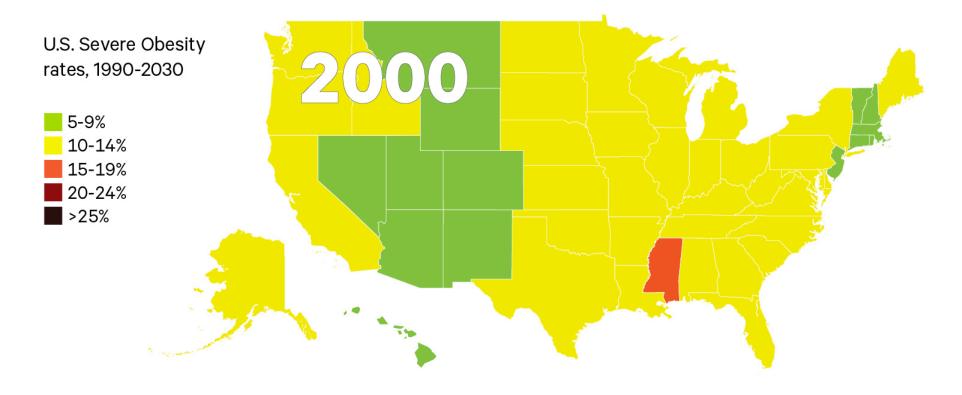






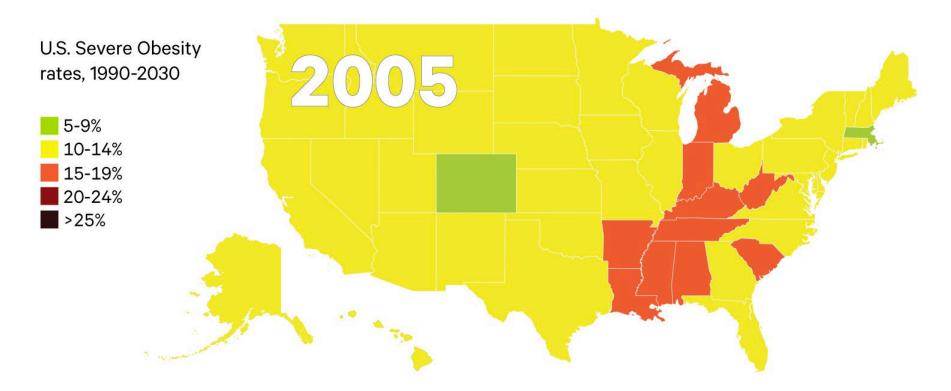






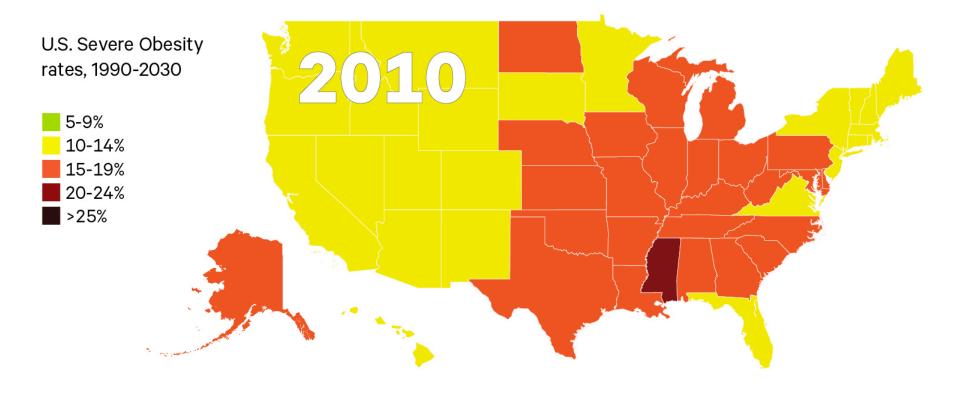






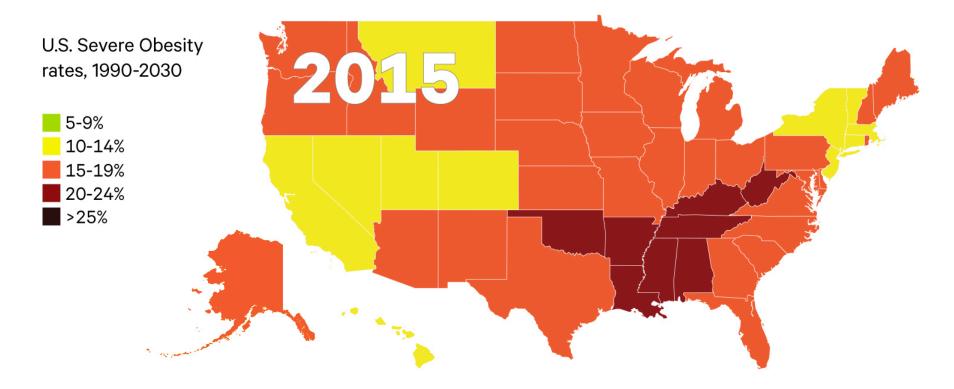








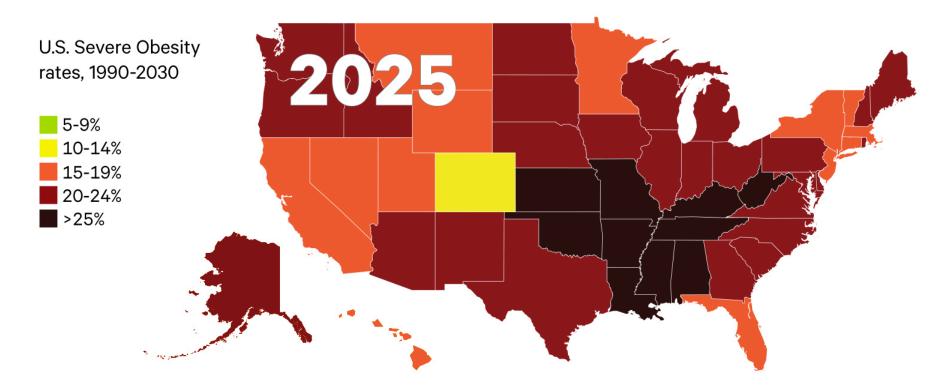


















Growing Disparities

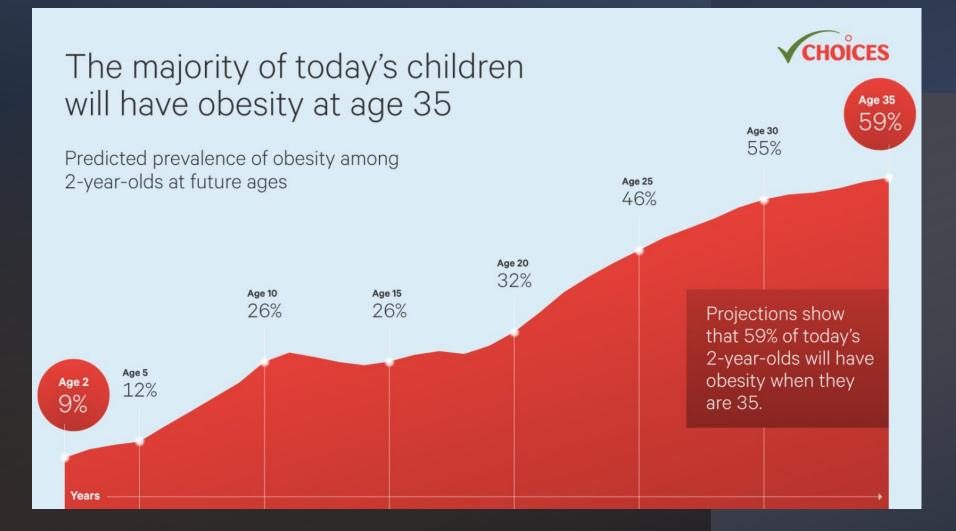
» Nearly 1 in 4 adults is projected to have severe obesity by 2030 (24.2%)

In 25 states, the prevalence will be higher than 25%

- » Nationally, severe obesity is likely to become the most common BMI category among
 - Women (27.6%)
 - Non-Hispanic black adults (31.7%)
 - Low-income adults (31.7%)



With no intervention...



Ward ZJ, Long MW, Resch SC, Giles CM, Cradock AL, Gortmaker SL. Simulation of Growth Trajectories of Childhood Obesity into Adulthood. N Engl J Med. 2017 Nov 30;377(22):2145-2153.

Cost-Effective & Feasible Interventions

 There is good evidence for a wide range of cost-effective and feasible strategies that can improve population health, improve health equity, and prevent future obesity and chronic disease

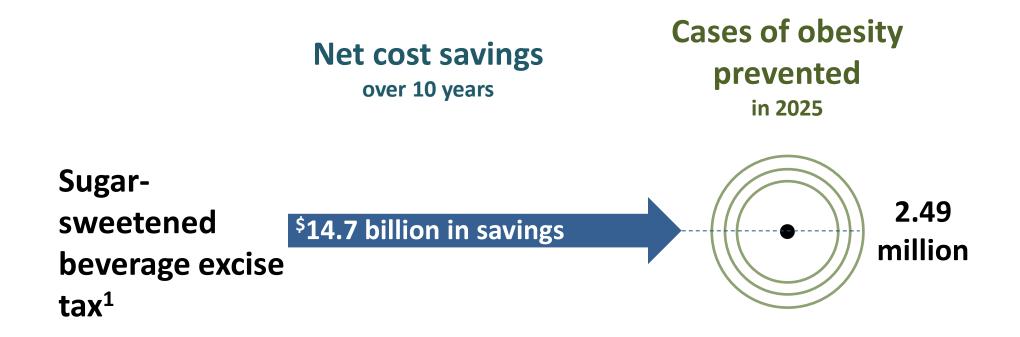


- Some of these are already implemented
- For example: nutritional improvements to the WIC food package,¹ improved school meals (HHFKA)²

¹Daepp MIG, Gortmaker SL, Wang YC, Long MW, Kenney EL. WIC Food Package. Pediatrics. 2019 May;143(5). ²Kenney EL, Barrett JL, Bleich SN, Ward ZJ, Cradock AL, Gortmaker SL. Impact of The Healthy, Hunger-Free Kids Act On Obesity Trends. Health Aff (Millwood). 2020 Jul;39(7):1122-1129.

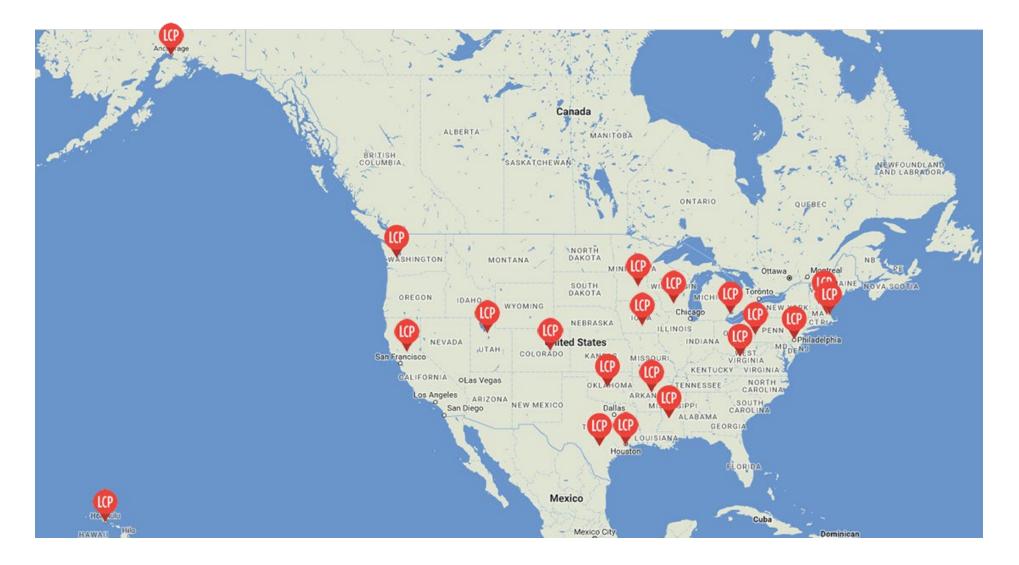


Population-wide strategy that is projected to save more in health care costs than it cost to implement





Learning Collaborative Partnerships





Learning Collaborative Partnerships



Apply CHOICES framework to identify "best value for money" strategies for states and cities

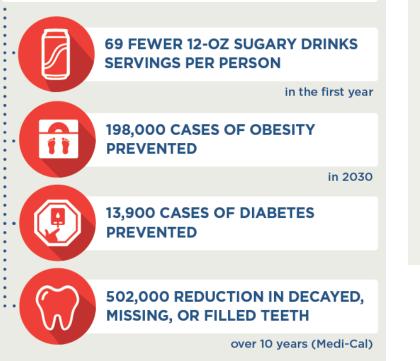
Learn how to apply evaluations of effectiveness, reach and cost to identify which strategies are the best value for money to prevent childhood and adult obesity throughout the U.S.

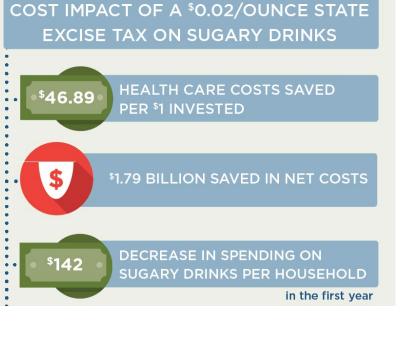




Example: CA Sugary Drink Tax

HEALTH IMPACT OF A \$0.02/OUNCE STATE EXCISE TAX ON SUGARY DRINKS





The tax would be cost-saving, and in addition would raise more than \$1.3 billion in annual revenue

www.choicesproject.org/publications/report-california-sugary-drink-excise-tax

Gouck J, Whetstone L, Walter C, Pugliese J, Kurtz C, Seavey-Hultquist J, Barrett J, McCulloch S, Garrone M, Cradock A, Gortmaker, S. California: A Sugary Drink Excise Tax. California Department of Public Health, Sacramento, CA, the County of Santa Clara Public Health Department, San Jose, CA, and the CHOICES Learning Collaborative Partnership at the Harvard T.H. Chan School of Public Health, Boston, MA; March 2021.



Key Takeaway



There are feasible
strategies that can prevent
obesity, are likely cost effective and will improve
health equity.



Thank You!

If you are interested in the CHOICES Community of Practice, visit: <u>www.choicesproject.org/comm-of-</u> <u>practice</u>





Questions? Email us: choicesproject@hsph.harvard.edu

