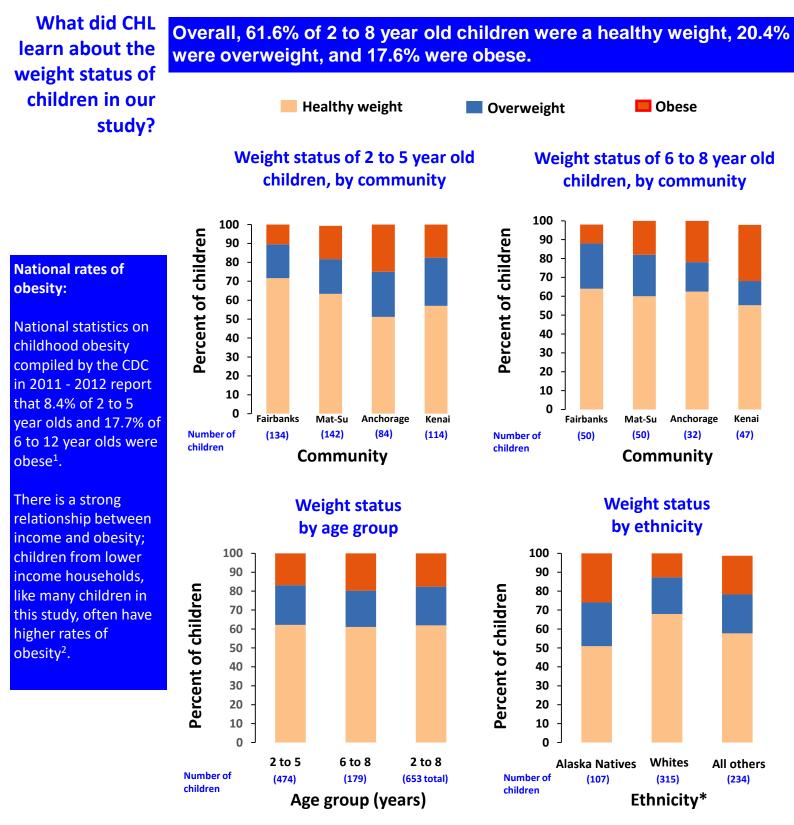


THE WEIGHNT STATUS OF 2 to 8 YEAR OLD CHILDREN IN FOUR REGIONS OF ALASKA:

Baseline findings from the Children's Healthy Living Program



*Participants were classified as Alaska Native or White only if they self identified as this and no other race was reported.

Who participated in our study and what did we measure?	 Between 2012-14, CHL recruited 653 2 to 8 year old children at public events and preschools in four regions of Alaska: Fairbanks, the Matanuska-Susitna valley (Mat-Su), Anchorage, and communities throughout the Kenai Peninsula. We targeted lower income households. Among our participants: 48.0% of household Incomes were below \$35,000 61.0% received assistance for food in the past year These four regions were selected because: most of Alaska's population lives in these areas 15% of the population is Alaska Native 10% of children are 10 years old or younger We measured the height and weight of 653 children and used their age and sex specific body mas s index (BMI = weight in kilograms/height in meters) to determine weight status.
What is a healthy weight?	 A healthy weight is defined as a BMI falling at the 5th percentile but below the 85th percentile of age and sex specific BMIs in large nation-wide samples of BMIs collected by the United States Centers for Disease Control (CDC)³. Age and sex specific BMIs at the 85th and 95th percentiles establish cut-points for BMIs considered overweight or obese². For example, the BMI at the 95th percentile means that 95% of BMIs in the nation-wide sample were below this level and children with BMIs at this level or higher are considered obese.
	Weight categories based on age and sex specific BMIs at the 5 th , 85 th , and 95 th percentile of BMIs in national samples collected by the CDC. Healthy weight 5 th (95 th)
	BMI percentile

Why is it Being overweight or obese:

important for

healthy weight?

children to

maintain a

- ↑ Increases the risk of many health problems^{4,5} including high blood pressure^{6,7}, abnormal cholesterol levels⁷, type II diabetes⁸, and depression^{4,9}
- \downarrow Reduces a child's self-esteem¹⁰ and academic achievement¹¹
 - Λ Increases the chance of being an obese adult^{12}
 - Λ Increases the chance of early death from all causes^{\rm 13,14}
 - ↑ May add \$19,000 in extra medical costs over a person's lifetime¹⁵

How can we promote healthy weight in Alaskan children?

- Choose water instead of sugar sweetened beverages like soda, fruit drinks, and sport drinks
- Eat more fruits and vegetables and encourage healthy eating¹⁶
- Limit screen time and other sedentary behaviors
- Incorporate physical activity into every day

References:

Ogden CL, MD Carroll, BK Kit, and KM Flegal. 2014. The Journal of the American Medical Association, 211(8):806-814
 United States Centers for Disease Control and Prevention. Childhood obesity facts. Retrieved from

- https://www.cdc.gov/obesity/data/childhood.html
 United States Centers for Disease Control and Prevention. Defining childhood obesity. Retrieved from https://www.cdc.gov/obesity/childhood/defining.html
- 4. Must A, and RS Strauss. 1999. International Journal or Obesity, 23(2):2-11
- 5. Sanders RH, A Han, JS Baker, and S Cobley. 2015. European Journal of Pediatrics, 174:715-746
- 6. Falkner B, SS Gidding, G Ramirez-Garnica, SA Wiltrout, D West, and EB Rappaport. 2006. Journal or Pediatrics, 148(2):195-200
- 7. Skinner AC, EM. Perrin, LA. Moss, and JA Skelton. 2015. New England Journal of Medicine, 373:1307-1317
- 8. Hannon TS, G Rao, and SA Arslanian. 2005. Pediatrics, 116(2):473-480, DOI: 10.1542/peds.2004-2536
- 9. Erickson SJ, TN Robinson, KF Haydel, and JD Killen. 2000. Archives of Pediatrics & Adolescent Medicine, 154(9):931-935
- 10. Strauss RS. 2000. Pediatrics, 105(1)
- 11. Helbig M and S Jahnen. 2013. Zeitschrift fur Soziologie, 42(5):405-423
- 12. Freedman DS, LK Khan, MK Serdula, WH Dietz, SR Srinivasan, and GS Berenson. 2005. Pediatrics, 115(1):22-27
- 13. Hirko KA, ED Kantor ED, SS Cohen, WJ Blot, MJ Stampfer, and LB Signorello. American Journal of Epidemiology, 182(5):441-450
- 14. Park MH, C Falconer, RM Viner, and S Kinra. 2012. Obesity reviews, 13:985-1000
- 15. Finkelstein EA, WCK Graham, and R Malhotra. 2014. Pediatrics, 133(5):1-9
- 16. Faught E, KV Ploeg, YL Chu, K Storey, and PJ Veugelers. 2016. Public Health Nutrition, 19(5):822-829

CHL Alaska is part of a pacific wide program funded by the United States Department of Agriculture designed to evaluate the health status of 2 to 8 year old children and develop community based approaches to maintain healthy food and activity environments for children.





United States Department of Agriculture National Institute of Food and Agriculture Agriculture and Food Research Initiative (AFRI) No. 2011-68001-30335

