

Supplementary Online Content

Ogden CL, Fryar CD, Hales CM, Carroll MD, Aoki Y, Freedman DS. Differences in obesity prevalence by demographics and urbanization in US children and adolescents, 2013-2016. *JAMA*. doi:10.1001/jama.2018.5158

eTable 1. Unweighted Number of Persons With Obesity or Severe Obesity by Age, Sex, Education of Household Head, Race and Hispanic Origin: NHANES 2013-2016

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Unweighted number of persons with obesity or severe obesity by age, sex, education of household head, and race and Hispanic origin: NHANES 2013-2016

| | | Race and Hispanic origin, No. of participants b | | | | |
|-----------------------------------|--|---|--------------|-------|-------|----------|
| | | All groups ^a | Non-Hispanic | | | Hispanic |
| | | | white | black | Asian | |
| Obesity^b | | | | | | |
| All | | 1281 | 271 | 323 | 61 | 541 |
| Age, y | | | | | | |
| 2-5 | | 203 | 47 | 48 | 10 | 85 |
| 6-11 | | 511 | 101 | 122 | 26 | 226 |
| 12-19 | | 567 | 123 | 153 | 25 | 230 |
| Sex | | | | | | |
| Male | | | | | | |
| 2-19 (overall) | | 655 | 149 | 150 | 39 | 272 |
| 2-5 | | 107 | 23 | 26 | 7 | 43 |
| 6-11 | | 266 | 63 | 50 | 19 | 114 |
| 12-19 | | 282 | 63 | 74 | 13 | 115 |
| Female | | | | | | |
| 2-19 (overall) | | 626 | 122 | 173 | 22 | 269 |
| 2-5 | | 96 | 24 | 22 | 3 | 42 |
| 6-11 | | 245 | 38 | 72 | 7 | 112 |
| 12-19 | | 285 | 60 | 79 | 12 | 115 |
| Education of household head | | | | | | |
| High school diploma or less | | 695 | 104 | 138 | 22 | 394 |
| Some college | | 389 | 97 | 133 | 19 | 107 |
| College graduate | | 163 | 61 | 46 | 18 | 23 |
| Severe obesity^c | | | | | | |
| All | | 420 | 81 | 120 | 8 | 187 |
| Age, y | | | | | | |
| 2-5 | | 30 | 5 | 8 | 0 | 14 |
| 6-11 | | 153 | 24 | 41 | 5 | 72 |
| 12-19 | | 237 | 52 | 71 | 3 | 101 |
| Sex | | | | | | |
| Male | | | | | | |
| 2-19 (overall) | | 220 | 40 | 58 | 6 | 105 |
| 2-5 | | 15 | 1 | 6 | 0 | 7 |
| 6-11 | | 74 | 13 | 14 | 3 | 40 |
| 12-19 | | 131 | 26 | 38 | 3 | 58 |
| Female | | | | | | |
| 2-19 (overall) | | 200 | 41 | 62 | 2 | 82 |
| 2-5 | | 15 | 4 | 2 | 0 | 7 |

| | | | | | | |
|-----------------------------|-----------------------------|-----|----|----|---|-----|
| | 6-11 | 79 | 11 | 27 | 2 | 32 |
| | 12-19 | 106 | 26 | 33 | 0 | 43 |
| Education of household head | | | | | | |
| | High school diploma or less | 239 | 29 | 59 | 3 | 136 |
| | Some college | 131 | 35 | 46 | 2 | 41 |
| | College graduate | 44 | 17 | 14 | 2 | 6 |

Abbreviation: NHANES, National Health and Nutrition Examination Surveys

a. Includes race and Hispanic origin groups not shown separately

b. Obesity was defined as a BMI at or above the 95th percentile of BMI-for-age

d. Severe obesity was defined as BMI at or above 120% of the 95th percentile of BMI-for-age

eTable 2. Unweighted number of persons with obesity and severe obesity by urbanization and survey period: NHANES, 2001-2004 to 2015-2016

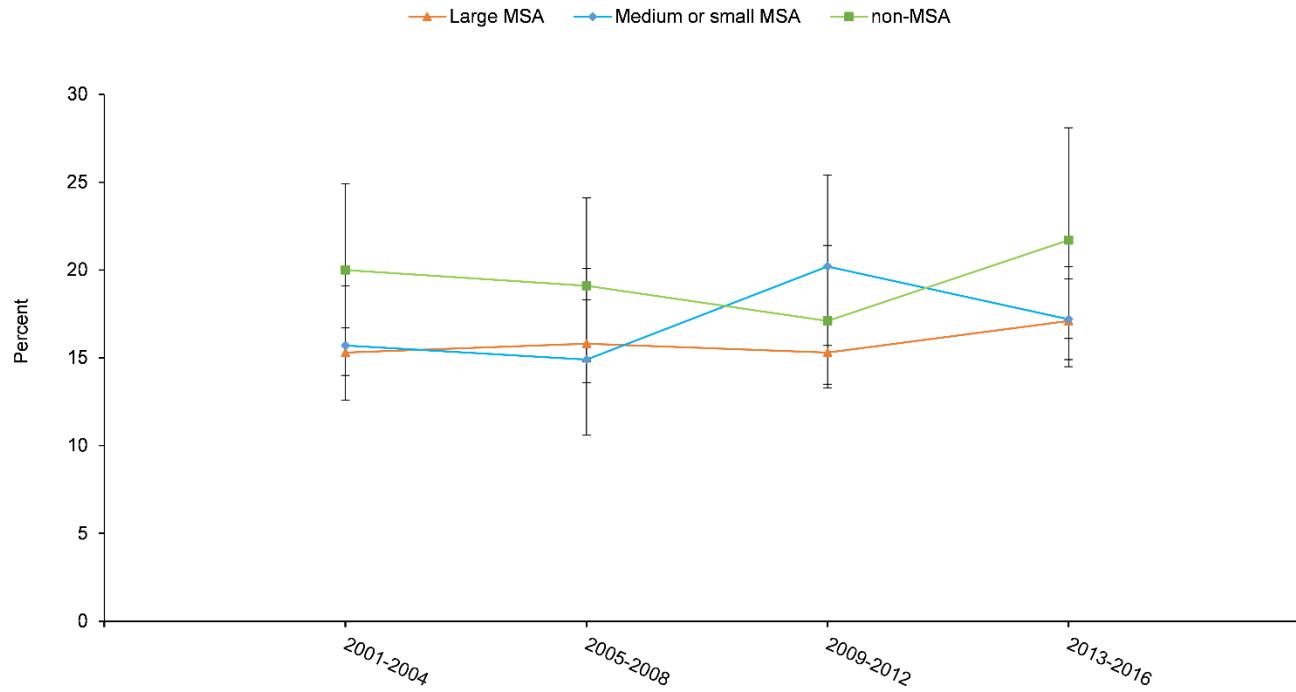
| | 2001-2004 | 2005-2008 | 2009-2012 | 2013-2016 |
|-----------------------------------|-----------|-----------|-----------|-----------|
| Obesity^a | | | | |
| Large MSA | 723 | 894 | 679 | 701 |
| Medium or Small MSA | 495 | 298 | 322 | 372 |
| Non-MSA | 230 | 213 | 227 | 208 |
| Severe Obesity^b | | | | |
| Large MSA | 248 | 300 | 211 | 214 |
| Medium or Small MSA | 174 | 85 | 126 | 119 |
| Non-MSA | 76 | 81 | 89 | 87 |

Abbreviations: NHANES, National Health and Nutrition Examination Survey; MSA, metropolitan statistical area

a. Obesity was defined as a BMI at or above the 95th percentile of BMI-for-age

b. Severe obesity was defined as BMI at or above 120% of the 95th percentile of BMI-for-age

eFigure 1. Prevalence of obesity^a and 95% confidence intervals by urbanization category, youth 2-19 years, United States, 2001-2004 through 2013-2016^b



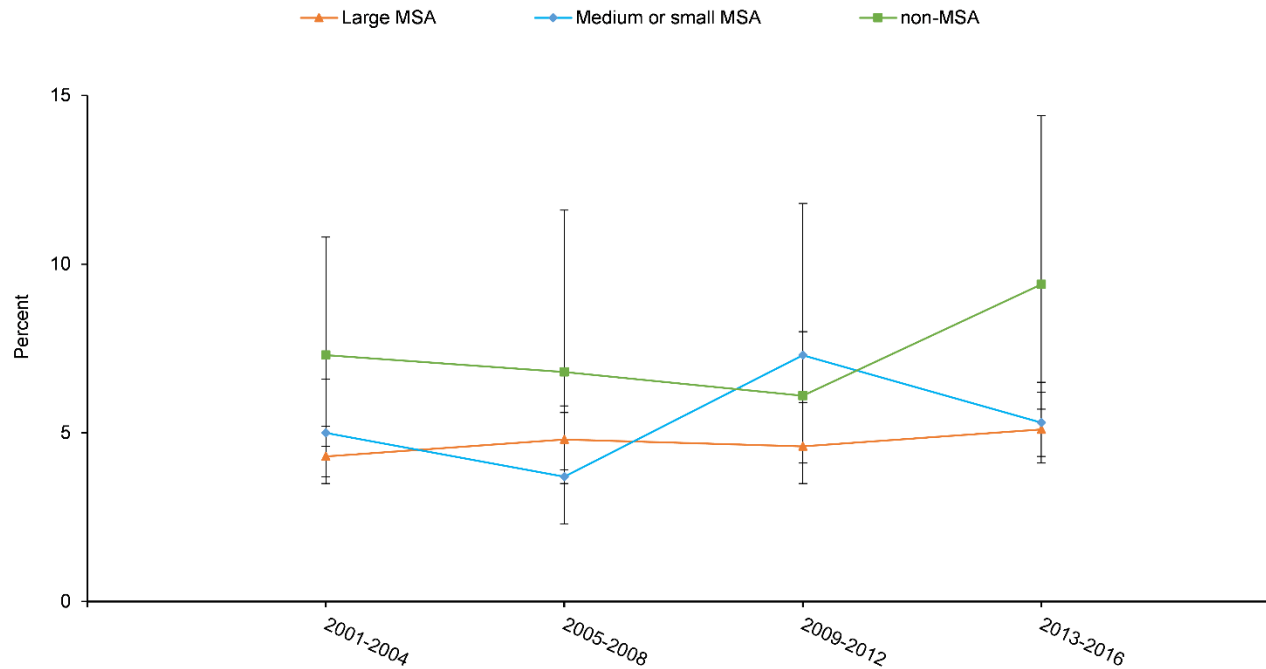
Abbreviation: MSA, metropolitan statistical area

^aObesity defined as at or above the sex specific 95th percentile of BMI-for-age CDC growth charts

^bX-axis represents midpoint of survey period

Source: NCHS, National Health and Nutrition Examination Survey; estimates are weighted

eFigure 2. Prevalence of severe obesity^a and 95% confidence intervals by urbanization category, youth 2-19 years, US, 2001-2004 through 2013-2016^b



Abbreviation: MSA, metropolitan statistical area

^aSevere obesity defined as 120% of the sex specific 95th percentile of BMI-for-age CDC growth charts

^bX-axis represents midpoint of survey period

Source: NCHS, National Health and Nutrition Examination Survey; estimates are weighted