CHILDHOOD OBESITY STATISTICS: ALABAMA

Surveillance, Research and Evaluation Subcommittee of the Alabama Obesity Task Force

8/2013



Background

- The Surveillance, Research and Evaluation Sub-committee originally was charged with:
 - Identification of sources of obesity data for Alabama that are representative of the state, public health districts, and counties;
 - assessment of gaps in the overall state obesity surveillance system; and
 - development and implementation of a plan to address the gaps in the current system.

Alabama Obesity Task Force

Strategic Plan for the Prevention and Control of Overweight and Obesity in Alabama

Alabama Department of Public Health



- Sources of representative data were found for all life stages except:
 - Preschool data

- School-aged children
 - Self-report of high school students only

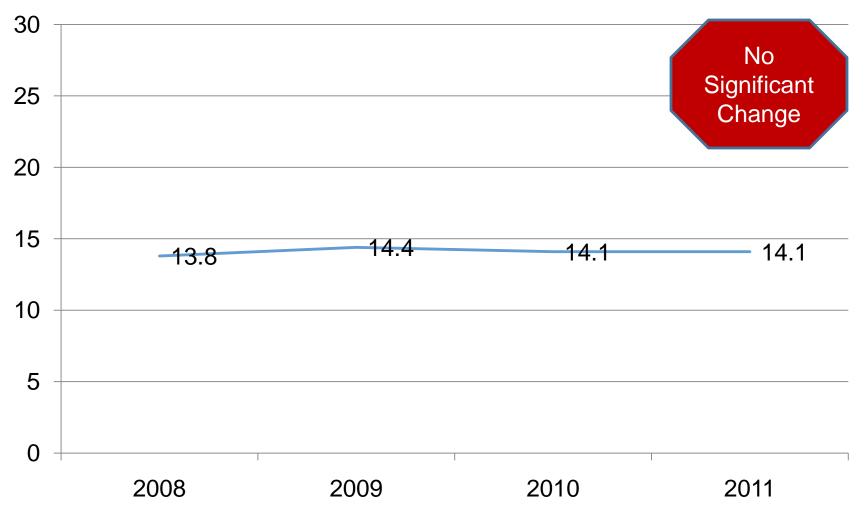
Toddlers and Preschoolers

- Best Data Source: PEDNSS Data
- Collected=Public Health Department Offices (Ongoing)
- Population= 2-4 year old children participating in the Alabama WIC program
- Strengths=actual height, weight and age taken with standardized protocol
- Limitation=population limited to income eligible WIC participants

National Data

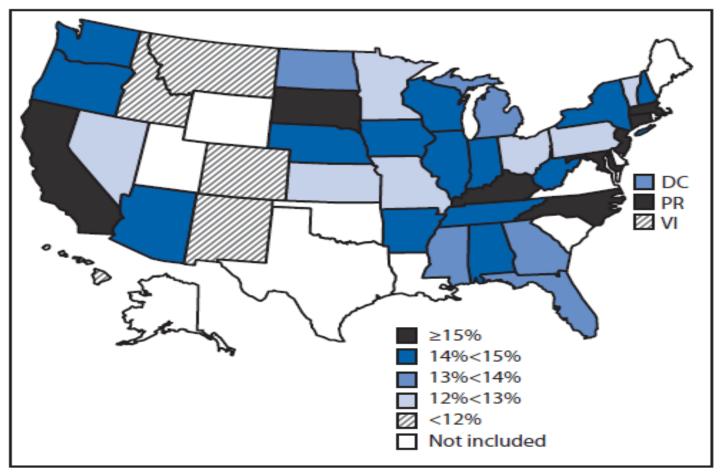
- NHANES 2009-2010
 - Prevalence of obesity among 2-5 year olds (all incomes)
 - 12.1%
 - Highest rates among minority groups
 - Non-Hispanic Blacks---18.9%
 - Hispanics----16.2%

Obesity Rates: Low Income Children 2-4 Years Old; 2008-2011



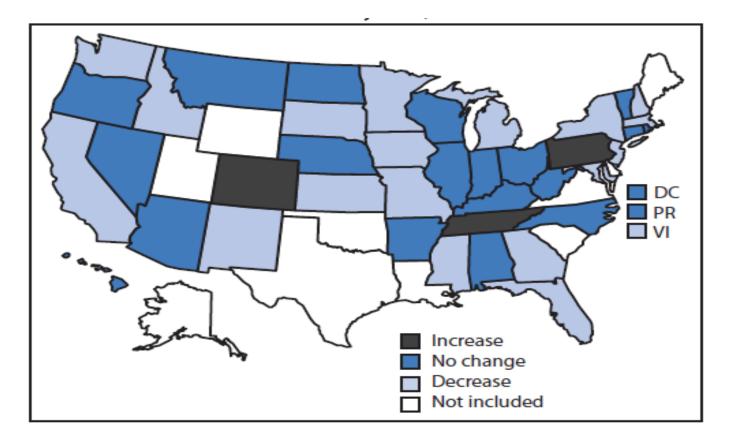
CDC. Vital Signs: Obesity Among Low-Income, Preschool-Aged Children — United States, 2008–2011. MMWR 2013; 62(31);629-634.

Prevalence of Obesity, Low Income Children, 2-4 years old; 2011



CDC. Vital Signs: Obesity Among Low-Income, Preschool-Aged Children — United States, 2008–2011. MMWR 2013; 62(31);629-634.

Changes in Obesity Rates of 2-4 Year Old Low Income Children by State; 2008-2011



CDC. Vital Signs: Obesity Among Low-Income, Preschool-Aged Children — United States, 2008–2011. MMWR 2013; 62(31);629-634.

School-age Children

- Best Data Source: Oral Health Screening Data
- Collected=ADPH Oral Health Screening Program (every 5 years)
- Population= Kindergarten and 3rd grade students
- Strengths=actual height and weight taken with standardized protocol; age estimated
- Limitation=
 - 2006-7: Convenience sample
 - 2011-12: Random Sample of Schools by Dental District and Stratified by income

School-age Children

- 2011-2012 data
 - Sample includes:
 - 4362 kindergarteners
 - 3952 third graders
 - Random sample of schools within each dental district was selected
 - Sample stratified by income
 - All kindergarteners and third graders present on the date measures were taken were included in the initial sample
 - Sample sizes within districts range from 380 to 789
 - Exceptions:
 - Dental District 4 (South East corner of the state—high poverty counties) (38 K, and 46 3rd graders) and
 - Dental District 9 (Mid-state and West of Montgomery) (172 K, 261 3rd graders)
 - Exclusions:
 - Height or weight was entered in error (biologically impossible)
 - Height, weight or birthday was not taken
 - Not appropriate age for school year



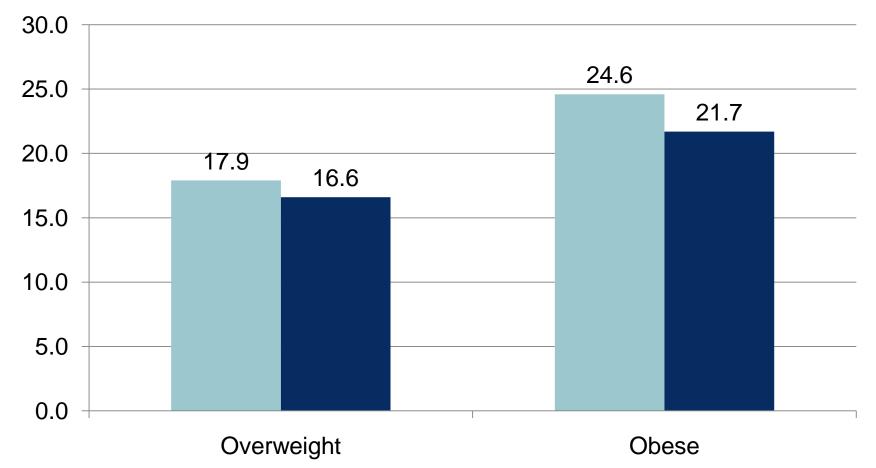


Sample Characteristics; 2012-13 Oral Health Screening

	Kindergarten Number (%)	3 rd grade Number (%)
Sex Male Female	2471 (51.4%) 2334 (48.6%)	2010 (50.5%) 1969 (49.5%)
Race/Ethnicity White Black Hispanic Other	2752 (57.9%) 1523 (32.1%) 294 (6.2%) 180 (3.8%)	2212 (56.5%) 1392 (35.6%) 306 (5.2%) 107 (2.7%)
Sample with Valid Heights and Weights	4362	3952

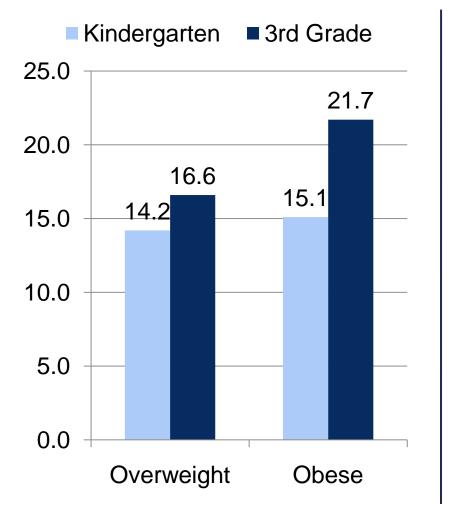
Overweight and Obesity Rates, Alabama 3rd Grade Students; 2006-7 and 2011-12

■ 2006-7 ■ 2011-12



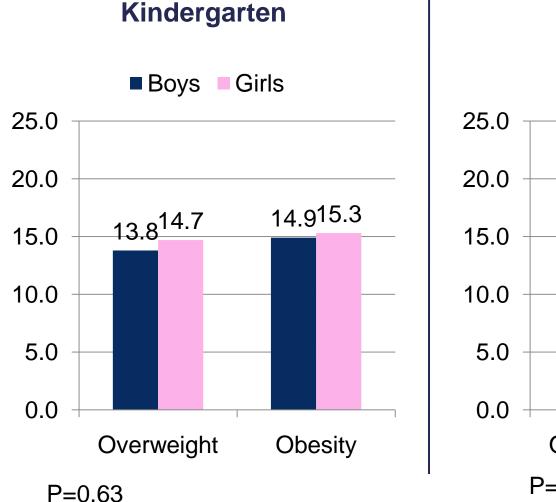
Caution: One should not compare the years because sampling designs differed.

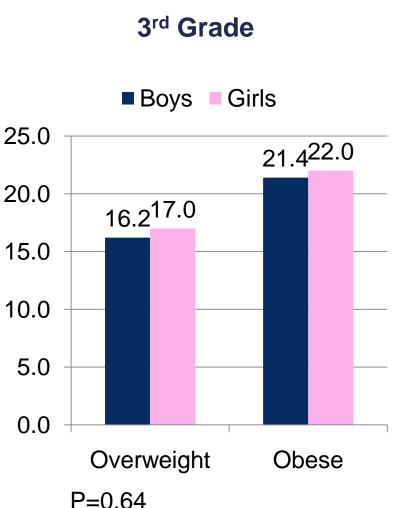
Overweight and Obesity: Alabama Kindergarten and 3rd Grade; 2011-12



- Obesity rates in Kindergarteners slightly higher than low income 2-4 year olds (14.1%)
- Rates of obesity increase with age in US children
- National obesity rate for 6-11 year olds in 2009-2010 was 18.6%

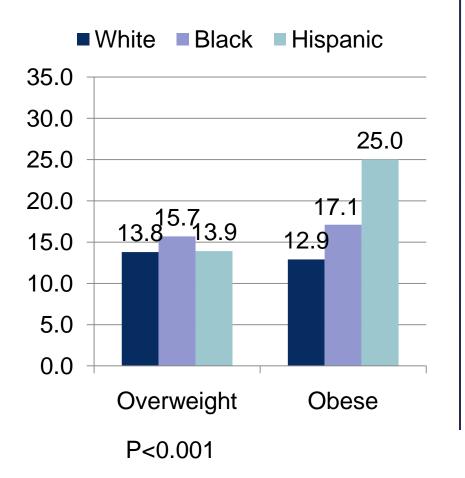
Comparisons: Alabama Oral Health Data; 2011-12



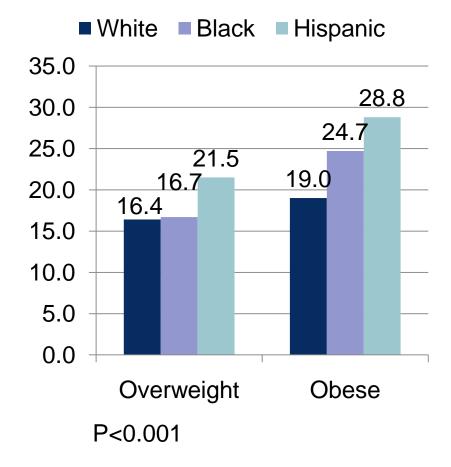


Comparisons: Alabama Oral Health Data; 2011-12

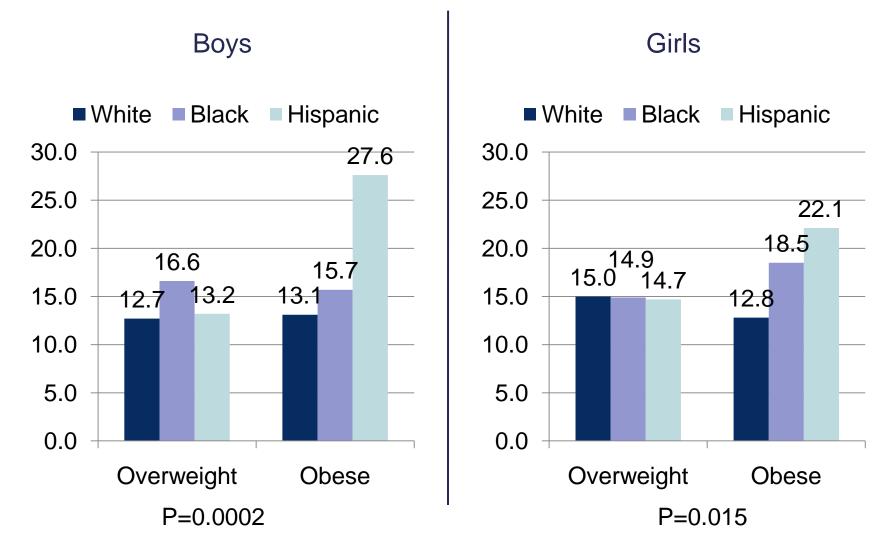
Kindergarten



3rd Grade



Alabama Oral Health Data: Kindergarten Sample by Gender and Race; 2011-12

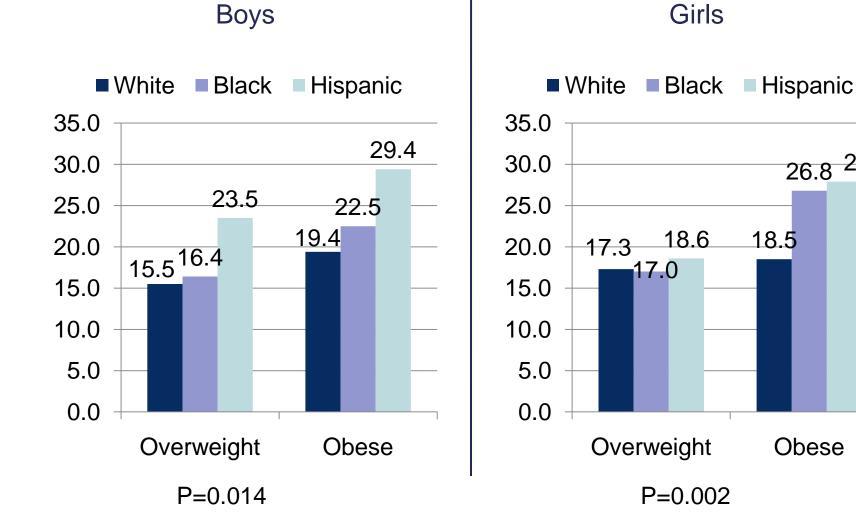


Alabama Oral Health Data: 3rd Grade Sample by Gender and Race; 2011-12

27.9

26.8

Obese



Conclusions

- Analysis of PEDNSS data and ADPH Oral Health Data fill a gap in our understanding of obesity rates in Alabama children
- Obesity rates in low income Alabama preschoolers have stayed the same between the years 2008-2011
- Obesity rates in Alabama school-age children are higher than the national average
- Obesity rates are higher among minority children with the highest rates found in Hispanic children

Next Steps

- Data Release for the AOTF webpage
 - Handout that highlights the data presented today

- GIS Maps
 - Map the data by dental district



Thank You

- Sherry Goode
- Krishona Lee
- Mim Gaines
- Carrie Shepherd
- Stuart Lockwood
- Sub-committee members
 - Richard Sinsky
 - Kim Blake