The prevalence of obesity is rising in the U.S. and in Rhode Island with one in five children considered obese. Childhood overweight and obesity is a serious problem that puts children at risk for poor health. Children and adolescents who are overweight or obese are at immediate and/or long-term risk of many health problems, including type 2 diabetes, cardiovascular disease, asthma, joint problems, sleep apnea, and other acute and chronic health problems.

Despite the persistence and severity of childhood overweight and obesity, clinical data is difficult to obtain for policy planning, population health, or programmatic purposes. While height, weight, and calculated BMI are some of the most frequently collected information at pediatric visits, there are very few national or state-level data sets that capture this clinical data. Most national and state-level data on childhood obesity come from self-reported survey data which can differ from clinical data.

Between 2016 and 2018, Rhode Island KIDS COUNT, the Rhode Island Department of Health’s Center for Health Data and Analysis, the Hassenfeld Child Health Innovation Institute, the State Innovation Model, and three health insurance plans collaborated on a project to collect accurate childhood overweight and obesity data at the state and city/town level that could also be analyzed by race/ethnicity, age, gender, and health insurance status. The result of this unique collaboration is the first clinical/claims-based statewide data set of childhood overweight and obesity in Rhode Island.
GENDER
Rhode Island boys have higher rates of obesity than girls in every age group and among all races and ethnicities except for non-Hispanic Black girls who have slightly higher rates of obesity than non-Hispanic Black boys.4

AGE
Overweight and obesity start as early as age two. Twenty-six percent of Rhode Island children ages two to four are overweight or obese. 38% of children between ages five and 17 are either overweight or obese.5

INSURANCE STATUS
Twenty-six percent of Rhode Island children covered by public insurance are obese compared to 14% of children with private health insurance.6

RACE AND ETHNICITY
In Rhode Island, Hispanic children have the highest rates of overweight and obesity at 17% overweight and 28% obese. Thirty percent of Hispanic boys are obese.7

The percent of overweight American Indian/Alaska Native children are statistically unreliable and cannot be reported. Twenty-three percent of American Indian/Alaska Native children are obese.8

Source for all data: Hassenfeld Child Health Innovation Institute analysis of BMI clinical and billing records of children ages two to 17 in Rhode Island from KIDSNET, Current Care, Blue Cross & Blue Shield of Rhode Island, Neighborhood Health Plan of Rhode Island, and United Healthcare collected by the Department of Health, 2016. Some percentages may not add to 100% due to rounding.
Prevalence of overweight and obesity in Rhode Island children ages 2 to 17, 2016

Core Cities
OVERWEIGHT
17%
OBESE
26%
COMBINED
43%

Remainder of State
OVERWEIGHT
14%
OBESE
16%
COMBINED
31%

Rhode Island
OVERWEIGHT
15%
OBESE
20%
COMBINED
35%

Note: The overweight, obesity, and combined percentages for New Shoreham are statistically unreliable and cannot be reported, therefore, New Shoreham is not shown on the map.

Source: Hassenfeld Child Health Innovation Institute analysis of BMI clinical and billing records of children ages two to 17 in Rhode Island from KIDSNET, Current Care, Blue Cross & Blue Shield of Rhode Island, Neighborhood Health Plan of Rhode Island, and United Healthcare collected by the Department of Health, 2016.
Recommendations

- The BMI data collection project should continue on an annual basis to collect, analyze, and distribute the data from KIDSNET, Current Care, and contributing health plans in place of a more permanent solution to track BMI data by state, city, town, race, ethnicity, age, gender, and insurance status.

- The General Assembly should consider legislative options that would provide an opt-out rather than an opt-in consent model for collecting children’s health data to be used on a de-identified, population-based scale in CurrentCare.

- Health care providers and insurers should continue to regularly collect children’s height, weight, and BMI data and provide guidance and referrals at annual well-child visits.

- The State should provide the authority and capacity for the Department of Health to work with providers, insurers, and electronic health record vendors on a solution to systematically report BMI data to KIDSNET and/or CurrentCare.

- The Rhode Island Department of Health and the Rhode Island Department of Education should continue to ask questions about nutrition and physical activity in youth surveys, including the Youth Risk Behavior Survey, and SurveyWorks!

- State agencies, health care providers, hospitals, insurers, schools, and community agencies should monitor trends in clinical, claims, and self-reported data on overweight and obesity among children to identify opportunities for intervention and programs to support children’s healthy weight.

References


4. Hassenfeld Child Health Innovation Institute analysis of BMI clinical and billing records of children ages 2 to 17 in Rhode Island from KIDSNET, Current Care, Blue Cross & Blue Shield of Rhode Island, Neighborhood Health Plan of Rhode Island, and United Healthcare collected by the Department of Health, 2016.

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