

2015 Child Behaviors and Health in Kosrae: Preliminary Results

The US Department of Agriculture (USDA)-supported Children's Healthy Living Program, or CHL, has been working with your community to understand the behaviors and health of children 2-8 years of age. During 2015, parents, teachers, community members, and project partners gathered data in your community. A total of 193 children from Kosrae participated in this study. Here we have some preliminary results from our joint work. With this information parents and community leaders can see where things are going well and where additional energy, leadership, and resources will need to be placed to raise the next generation of healthy, happy children.

Child sex, age, race distribution

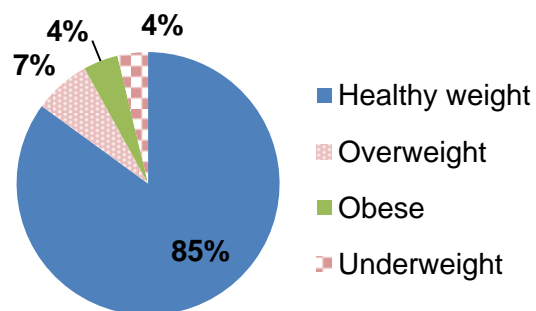
Among the 193 children, a total of 188 had information on sex, of which 84 (45%) were girls and 104 (55%) were boys. Furthermore, all children had information on age, of which 115 (60%) were of age group 2-5 years and 78 (40%) were of age group 6-8 years. All children had information on race, of which 177 (91.7%) were Native Hawaiian/ Pacific Islander (NHPI), 1 (.5%) was Black, and 15 (7.8%) were more than one race. Among the NHPI children, 172 (89.1%) were Kosraean, 2 (1.0%) were Kosrae mixed with Pohnpeian, 1 (.5%) was Chuukese, 1 (.5%) was Marshallese, and 1 (.5%) was Kosraean mixed with Kiribati.

Potential outliers with extreme values (defined as those with a value of 3 standard deviations (sd) above or below the mean) were excluded from this report. Data was looked at by child's sex and age group.

Children's Body Mass Index by Category as defined by the Center for Diseases Control and Prevention (CDC)

A total of 187 children were included for this analysis. Among them, 85% were healthy weight, 7% were overweight, 4% were obese, and 4% were underweight (Figure 1). No difference was observed between boys and girls, or between those ages 2-5 and those ages 6-8 years old.

Figure 1. Prevalence of overweight and obesity of study children from Kosrae (n=187)



Effective strategies in the prevention of childhood obesity include: (1) A healthy lifestyle, which encourages children to move more, sleep more and spend less screen time (2) A healthy diet, which encourages children to drink more water, eat more fruit and vegetables and consume fewer sugar sweetened beverages. Below we show how the children are doing on achieving some of these strategies.

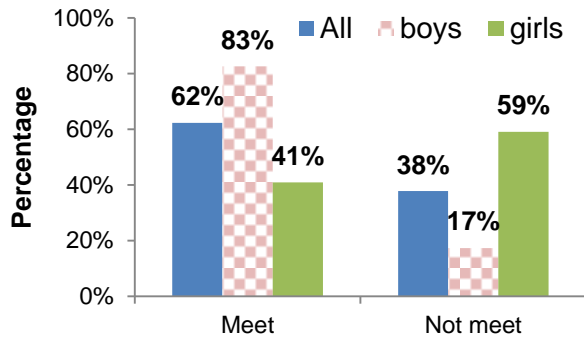
Children moderate and vigorous level of physical activity (MVPA) as measured by accelerometer

In each study community, about half of the children were asked to wear an accelerometer for 6 days, which records the child's activity by each second. Average minutes per day of children's MVPA were obtained from the accelerometer data.

In Kosrae, a total of 90 children had valid accelerometer data. Among those 90 children, daily average minutes of moderate and vigorous physical activity (MVPA) were 74.5 (sd=30.4). The average of boys (88.8, sd=27.9) was higher than girls (59.6, sd=25.6). No difference was observed between those ages 2-5 and those ages 6-8 years old.

Sixty-two percent of those 90 children met the national recommendation of 60 minutes a day of MVPA (Figure 2). A greater percentage of boys (83%) than girls (41%) met the recommendation (Figure 2). No difference was observed between those ages 2-5 and those ages 6-8 years old.

Figure 2. Percentage of children, by sex, meeting national recommendation of 60 minutes a day of moderate and vigorous types of physical activity



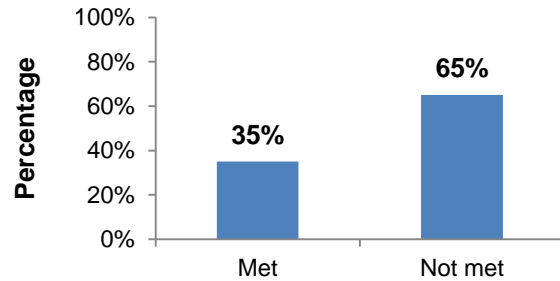
One in three (38%) of all children and three in five (59%) of girls did not meet the national recommendation of 60 minutes a day of MVPA. This is an opportunity for both parents and educators to intervene to help children, especially girls, to get more physical activity.

Children’s screen time

A total of 183 children were included in the analysis of screen time. Among them, average screen time, such as watching TV, video games, or DVD, or playing active or inactive video games was 3.8 hours (sd=3.1). The average was higher among boys (4.3, sd=3.2) compared to girls (3.2, sd=2.8). The average was higher among older children ages 6-8 (4.4, sd=3.5) compared to those ages 2-5 years old (3.4, sd=2.7).

While the national recommendation is for each child to spend 2 or less hours on screens every day, only 35% of our study children met this recommendation (Figure 3). No difference was observed between boys and girls, or between those ages 2-5 and those ages 6-8 years old.

Figure 3. Percentage of children meeting the national recommendation of each child to spend 2 or fewer hours of screen time every day



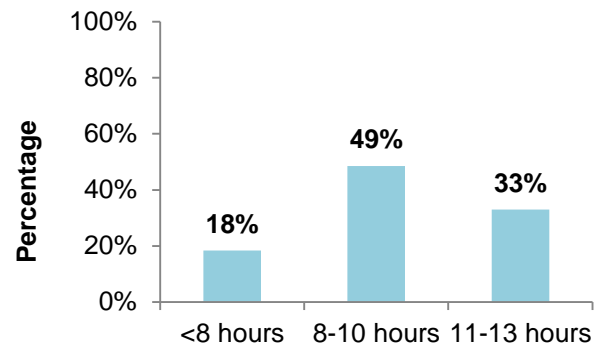
Two out of three (65%) of children appear to be spending too much time on screens! This is an opportunity for both parents and educators to intervene to help children spend less screen time.

Children Sleep Duration

A total of 169 children were included in the analysis of sleep duration. The average number of hours of sleep per day among those 170 children were 10.0 (sd=2.2). No differences were found between the averages of boys and girls, or between children age 2-5 and those 6-8 years old.

Among the 103 two to five year olds, 33% met the national recommendation of sleep of between 11-13 hours daily (11-13 hours in the graph). Another 49% of children slept more than 8 hours but less than 11 hours daily (8-10 hours in the graph) and 18% slept less than 8 hours (<8 hours in the graph) (Figure 4).

Figure 4. Percent of children 2-5 years old among 3 groups of sleep duration



Two in three (67%) of our younger children ages 2-5 years did not meet the national recommendation of

For more about this data or the CHL Program, contact:

Cecilia Sigrah | CSigrah@fsmhealth.fm | 691 370-3006/3199

www.CHL-Pacific.org



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

11-13 hours daily of sleep. This is an opportunity for both parents and educators to intervene to help children get more sleep.

Acknowledgements

We would like to thank all the families of participants who completed our assessments so that we could make this important information available, as well as all our community partners for working with us to improve the health of children across the Pacific.

For more about this data or the CHL Program, contact:

Cecilia Sigrah | CSigrah@fsmhealth.fm | 691 370-3006/3199

www.CHL-Pacific.org



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