



Prevention Research Center for Healthy Neighborhoods
at Case Western Reserve University

2012 Cuyahoga County Youth Risk Behavior Survey: Physical Activity

Introduction

The Prevention Research Center for Healthy Neighborhoods (PRCHN) at Case Western Reserve University has administered the Youth Risk Behavior Survey (YRBS) in school districts throughout Cuyahoga County since 2000. The YRBS is a cross-sectional tool developed by the Centers for Disease Control and Prevention (CDC) to track adolescent risk behavior over time. In spring of 2012, the PRCHN conducted the YRBS among 7th and 8th grade students in Cuyahoga County middle schools. A more detailed description of the methodology is available at our website, <http://prchn.org/yrbs.apxs>.

This brief report presents results from the 2012 Cuyahoga County Middle School Youth Risk Behavior Survey, with a particular focus on Physical Activity, including sedentary behaviors. In this brief report, we present:

- [Overall Prevalence](#)
- [Regional Prevalence](#)
- [Demographic Prevalence](#)
- [Trend Report](#)

Data for similar behaviors can be found at our website, <http://prchn.org/yrbs.aspx>.

Physical Activity

Participation in regular physical activity among young people can help build and maintain healthy bones and muscles, maintain body weight and reduce body fat, reduce feelings of depression and anxiety, and promote psychological well-being.^{i,ii} Over time, regular physical activity decreases the risk of high blood pressure, heart disease, diabetes, cancers, and premature death. The 2005 Dietary Guidelines for Americans recommends that youth engage in at least 60 minutes of physical activity on most, preferably all, days of the week.ⁱ

Television (TV) viewing, computer usage, and video/DVD usage are all considered sedentary behaviors. Child and adolescent TV viewing, in particular, is associated with childhood and adult obesity and youth who engage in less than two hours of TV viewing per day tend to be more active. Computer usage and video game playing are associated with physical inactivity among adolescents and young adults.

When students are watching television excessively, they are less likely to be spending time doing homework or reading, participating in after school activities, exercising frequently or being engaged in other intellectually stimulating activities.ⁱⁱⁱ Television watching is assessed in the same manner as having used a computer and played video games; with having watched 3 or more hours per day of television on an average school day considered a risky, sedentary behavior.

Healthy People 2020

Where possible, the Cuyahoga County Youth Risk Behavior Survey (YRBS) data are compared to the Healthy People 2020 benchmarks.^{iv} This allows us to consider Cuyahoga County's progress towards the 10-year national objectives aimed at improving the health of all Americans.

Healthy People 2020 Objectives	Cuyahoga County 2012
PA-8.2.3: Increase the proportion of adolescents, aged 6-14, who view television 2 or fewer hours on a school day to 86.8%	65.1 % of Cuyahoga County middle school students reported watching television for 2 or fewer hours a day.
PA-8.2.3: Increase the proportion of adolescents, aged 6-14, who use a computer or play computer games outside of school (for non-school work) for 2 or fewer hours on a school day to 100.0%	67.5% of Cuyahoga County middle school students reported using a computer for non-school for 2 or fewer hours per day.

Overall Prevalence

The following table summarizes physical activity behaviors among the 12,341 middle school students who completed the 2012 Cuyahoga County YRBS. Prevalence estimates and 95% confidence intervals were computed for all variables.

Risk Behavior	% (95% Confidence Interval)
Participated in 60 or more minutes of physical activity on 5 or more days (During the 7 days before the survey.)	54.7% (53.4-56.0)
Did not participate in 60 or more minutes of physical activity on any day (During the 7 days before the survey.)	7.1% (6.5- 7.8)
Watched television 3 or more hours per day (On an average school day.)	34.9% (33.8-35.9)
Used computers 3 or more hours per day (Played video or computer games or used a computer for something that was not school work on an average school day.)	32.5% (31.4-33.6)
Played on one or more sports teams (During the past 12 months.)	71.9% (70.7-73.0)

Regional Prevalence

The table below represents physical activity behaviors in the six regions of Cuyahoga County. This division was conducted to provide a geographic representation of the prevalence of different risk behaviors in Cuyahoga County. In 2012, we were able to weight to 4 of 6 regions in Cuyahoga County. The columns under Inner Ring—East and Inner Ring—West do not include data because school participation within those regions was insufficient to permit weighting.

Risk Behavior	CMSD-East % (95% CI)	CMSD- West % (95% CI)	Inner Ring-East % (95% CI)	Inner Ring-West % (95% CI)	Outer Ring-East % (95% CI)	Outer Ring-West % (95% CI)
Participated in 60 or more minutes of physical activity on 5 or more days (During the 7 days before the survey.)	39.5% (37.0-42.0)	45.2% (42.2-48.2)	N/A	N/A	58.9% (55.8-62.0)	62.5% (60.4-64.7)
Did not participate in 60 or more minutes of physical activity on any day (During the 7 days before the survey.)	15.0% (13.1-16.9)	10.5% (8.7-12.2)	N/A	N/A	4.7% (3.3-6.1)	3.9% (3.1-4.8)
Watched television 3 or more hours per day (On an average school day.)	56.0% (53.6-58.5)	42.1% (39.7-44.4)	N/A	N/A	26.9% (24.4-29.5)	19.4% (17.8-21.0)
Used computers 3 or more hours per day (Played video or computer games or used a computer for something that was not school work on an average school day.)	46.0% (43.3-48.6)	41.8% (39.4-44.1)	N/A	N/A	24.4% (22.0-26.7)	22.5% (20.5-24.4)
Played on one or more sports teams (During the past 12 months.)	63.8% (60.8-66.9)	60.7% (58.2-63.1)	N/A	N/A	80.1% (77.7-82.6)	79.6% (78.1-81.2)

Demographic Prevalence

The tables below allow for further comparisons of physical activity behaviors between demographic groups. Data are presented by gender, race/ethnicity, and grade level. A statistically significant difference exists between groups if the 95% confidence intervals do not overlap.

Participated in 60 or more minutes of physical activity on 5 or more days		
Category	%	CI
Gender		
Female	46.9	45.1 - 48.7
Male	61.9	60.3 - 63.5
Race/Ethnicity		
Black	47.5	45.3 - 49.6
White	60.8	59.2 - 62.5
Hispanic	43.0	39.8 - 46.2
Other	56.2	51.6 - 60.8
Grade		
7th	55.9	54.4 - 57.5
8th	53.8	51.9 - 55.7
Total	54.7	53.4 - 56.0

Did not participate in 60 or more minutes of physical activity on any day		
Category	%	CI
Gender		
Female	8.4	7.4 - 9.4
Male	6.0	5.2 - 6.7
Race/Ethnicity		
Black	11.0	9.7 - 12.3
White	3.7	3.1 - 4.3
Hispanic	12.9	10.4 - 15.4
Other	8.2	5.0 - 11.4
Grade		
7th	6.6	5.9 - 7.3
8th	7.3	6.3 - 8.2
Total	7.1	6.5 - 7.8

Watched television 3 or more hours per day		
Category	%	CI
Gender		
Female	34.6	33.0 - 36.2
Male	35.1	33.8 - 36.5
Race/Ethnicity		
Black	54.0	52.3 - 55.7
White	20.4	19.2 - 21.6
Hispanic	40.7	37.7 - 43.6
Other	32.9	28.7 - 37.1
Grade		
7th	34.8	33.3 - 36.2
8th	34.8	33.2 - 36.4
Total	34.9	33.8 - 35.9

Used computers 3 or more hours per day		
Category	%	CI
Gender		
Female	29.3	27.8 - 30.9
Male	35.4	33.9 - 37.0
Race/Ethnicity		
Black	41.8	39.9 - 43.7
White	24.6	23.2 - 26.1
Hispanic	43.8	40.6 - 46.9
Other	38.7	34.3 - 43.1
Grade		
7th	30.6	29.1 - 32.1
8th	33.9	32.5 - 35.4
Total	32.5	31.4 - 33.6

Played on one or more sports teams		
Category	%	CI
Gender		
Female	67.1	65.5 - 68.7
Male	76.3	74.9 - 77.7
Race/Ethnicity		
Black	66.6	64.4 - 68.7
White	77.0	75.7 - 78.4
Hispanic	58.3	55.0 - 61.5
Other	71.5	71.1 - 71.9
Grade		
7th	72.1	70.6 - 73.7
8th	71.9	70.1 - 73.6
Total	71.9	70.7 - 73.0

Cuyahoga County Trend Data

The following table presents the prevalence of physical activity behaviors among Cuyahoga County middle school students in 2008, 2010, and 2012. The prevalence for each year is given (when available), with 95% confidence intervals below.

Cuyahoga County, 2008	Cuyahoga County, 2010	Cuyahoga County, 2012
Participated in 60 or more minutes of physical activity on 5 or more days (During the 7 days before the survey.)		
49.6% (48.2-50.9)	54.0% (52.4-55.6)	54.7% (53.4-56.0)
Did not participate in 60 or more minutes of physical activity on any day (During the 7 days before the survey.)		
7.7% (7.0-8.3)	7.5% (6.6-8.3)	7.1% (6.5- 7.8)
Watched television 3 or more hours per day (On an average school day.)		
42.8% (41.4-44.2)	36.8% (34.4-39.1)	34.9% (33.8-35.9)
Used computers 3 or more hours per day (Played video or computer games or used a computer for something that was not school work on an average school day.)		
30.8% (29.2-32.3)	30.0% (28.2-31.7)	32.5% (31.4-33.6)
Played on one or more sports teams (During the past 12 months.)		
70.3% (68.2-72.4)	70.1% (68.4-71.7)	71.9% (70.7-73.0)

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- ⁱ U.S. Department of Health and Human Services. 1996. *Physical Activity and Health: A Report of the Surgeon General*. Atlanta, GA: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion.
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