CHAPTER 5: OBESITY AND OVERWEIGHT

Obesity and Overweight in 2006

Definition

Body Mass Index (BMI) is a calculation that standardizes the meaning of the terms obesity and overweight, thereby improving the accuracy of comparisons. BMI is body weight in kilograms divided by height in meters squared (BMI=kg/m²). Obesity is defined as a BMI of 30.0 or higher and overweight as a BMI of 25.0-29.9.

Prevalence

Obesity

WV: 31.0% (95% CI: 29.2-32.9) in 2006. **US: 25.1%** (95% CI: 24.7-25.4) in 2006.

West Virginia ranked 2nd highest among 50 US States and DC in 2006.

Overweight

WV: 36.0% (95% CI: 34.1-37.8) in 2006. **US: 36.2%** (95% CI: 35.8-36.6) in 2006.

West Virginia ranked 33rd highest among 50 US States and DC in 2006.

Time Trends

Obesity increased substantially among West Virginia adults between 1993 and 2005. Men and women from a wide range of age, education, and income categories contributed to this unhealthy trend. The prevalence of overweight adults, in contrast, had only slight year-to-year variations around a barely declining long-term trend line.

Gender

Obesity

Men: 33.3% (95% CI: 30.4-36.1) in 2006. **Women:** 28.9% (95% CI: 26.5-31.2) in 2006.

Overweight

Men: 41.7% (95% CI: 38.8-44.7) in 2006. **Women:** 30.3% (95% CI: 28.1-32.6) in 2006.

Obesity rate differences by gender alone were small. However, men had a significantly higher risk than women from overweight in 2006.

Age

The prevalence of being either obese or overweight steadily increased through the 18-44 age groups, although adjacent age groups were not significantly different. In the 45-54 age group, prevalence was slightly higher for obesity, but was slightly lower among the overweight group. For the oldest group (age 65+), the prevalence of being overweight remained similar to levels in the middle age groups. Obesity prevalence in the oldest age group (65+), however, dropped to significantly below that in the 45-54 and 55-64 age groups.

Education and Household Income

Few differences were significant in the prevalence of obesity or overweight by either educational attainment or household income.

WV HEALTHY PEOPLE 2010 OBJECTIVES

Objective 19.1b

Reduce to 20% the proportion of people who are obese as defined by having a body mass index of 30 or greater. (Baseline: 23.9% in 1998; Current: 31.0% in 2006)

Table 5.1 Obesity by demographic characteristics: WVBRFSS, 2006

Characteristic	Men			Women			Total		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
TOTAL	1,474	33.3	30.4-36.1	2,175	28.9	26.5-31.2	3,649	31.0	29.2-32.9
Age									
18-24	66	*21.7	11.1-32.2	76	*18.6	7.2-30.0	142	20.2	12.5-27.9
25-34	149	33.4	25.4-41.5	259	30.6	24.6-36.6	408	32.0	27.0-37.1
35-44	227	35.9	29.0-42.8	357	31.0	25.6-36.3	584	33.4	29.0-37.8
45-54	327	42.2	36.4-48.1	404	33.3	28.3-38.3	731	37.9	34.0-41.7
55-64	367	35.4	30.0-40.8	435	33.8	29.0-38.7	802	34.6	31.0-38.2
65+	336	27.1	22.0-32.3	641	24.7	21.0-28.3	977	25.7	22.7-28.8
Education						·			
Less than H.S.	252	30.5	23.8-37.1	341	32.9	27.3-38.5	593	31.6	27.2-36.0
H.S. or G.E.D.	587	34.4	29.9-39.0	848	30.5	26.7-34.2	1,435	32.5	29.5-35.4
Some Post-H.S.	278	34.9	28.1-41.7	516	29.5	24.1-34.9	794	31.9	27.6-36.1
College Graduate	354	31.7	26.0-37.5	468	22.6	18.4-26.8	822	27.3	23.6-30.9
Income									
Less than \$15,000	163	29.5	21.7-37.4	404	30.9	25.7-36.1	567	30.4	26.1-34.8
\$15,000- 24,999	267	34.3	27.6-41.0	444	36.1	30.3-41.9	711	35.3	30.9-39.7
\$25,000- 34,999	213	37.0	29.3-44.8	265	28.2	21.8-34.6	478	32.9	27.8-38.1
\$35,000- 49,999	235	32.5	25.6-39.4	272	29.9	23.8-36.1	507	31.3	26.6-36.0
\$50,000- 74,999	223	30.8	24.1-37.6	255	26.9	21.0-32.8	478	29.0	24.4-33.5
\$75,000+	246	39.0	32.0-46.0	254	20.1	14.7-25.5	500	30.7	26.0-35.5

Note: Obesity is defined as a body mass index of 30.0 or higher.

Table 5.2 Overweight (but not obese) by demographic characteristics: WVBRFSS, 2006

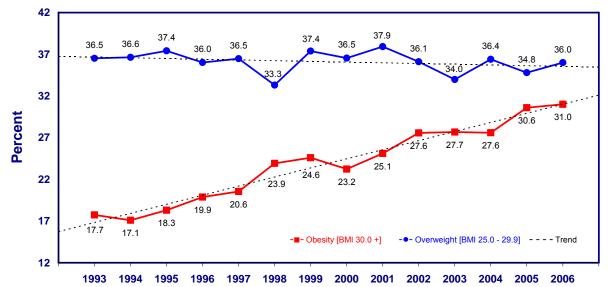
Characteristic	Men			Women			Total		
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\$75,000+	246	42.3	35.5-49.1	254	33.4	27.0-39.9	500	38.4	33.7-43.2

^{*} Use caution when interpreting and reporting this estimate. See discussion of unstable estimates in Methodology.

Note: Overweight is defined as a body mass index of 25.0-29.9.

* Use caution when interpreting and reporting this estimate. See discussion of unstable estimates in Methodology.

Figure 5.1 Obesity and overweight by year: WVBRFSS, 1993-2006



Source: West Virginia Behavioral Risk Factor Surveillance System (WVBRFSS), West Virginia Health Statistics Center, January 2008. Population: Non-institutionalized adults age 18 and older residing in West Virginia.

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Obesity is defined as a body mass index of 30.0 or higher. Overweight is defined as a body mass index of 25.0 - 29.9.

Note: This Y axis does not begin with zero, in order to maintain a 30 percentage point Y axis range that facilitates comparability among a group of graphs presented together.

Figure 5.2 Obesity (body mass index of 30.0 or higher) by county: WVBRFSS, 2002-2006

