

CHAPTER 3: DIABETES AWARENESS

Definition: Have ever been told by a doctor that they have diabetes. *Women told they had diabetes only during pregnancy are treated as an answer of “no”.*

State Prevalence	9.8% (95% CI: 8.7-10.9); 4 th highest among 54 BRFSS participants. National prevalence: 7.5% (95% CI: 7.3-7.7).
Time Trends	The prevalence of diabetes awareness steadily increased between 1995 and 2002. In 2003, it slightly decreased from the 2002 prevalence of 10.2%. West Virginia has ranked among the top five states nationwide for this risk factor every year since 1999.
Gender	Men 8.7% (95% CI: 7.2-10.3); Women 10.8% (95% CI: 9.3-12.3). Although the gender gap widened between 2002 and 2003, there was no significant gender difference in the prevalence of diabetes.
Age	The prevalence of diabetes increased sharply with age, especially after age 54. In fact, adults aged 65 and older were more than twice as likely to have diabetes as those aged 45 to 54 (19.3% versus 9.1%). The rate of diabetes was significantly higher among adults aged 55 and older than among those in the four lower age groupings.
Education	There was a significant inverse relationship between diabetes awareness and educational attainment. Nearly 16% of adults without a high school diploma/GED were diabetic, compared with approximately 6% of college graduates. Women without a high school diploma/GED had a significantly higher rate of diabetes than their male counterparts (20.4% versus 11.1%).
Household Income	Diabetes awareness generally decreased as household income increased. The prevalence was highest among adults in the poorest households (14.3%). Adults with the highest level of income were significantly less likely to have diabetes than those with an income less than \$35,000.
Quick Stats	<ul style="list-style-type: none">• Between 1995 and 2003, the percentage of diabetic adults that check their blood sugar at least once daily significantly increased from 26.3% to 61.7%.• Diabetic adults were significantly more likely to report a fair or poor health status than non-diabetic adults and were significantly less likely to be uninsured (see Figure 3.3).

West Virginia Healthy People 2010 Objectives

Objective 5.6	Increase to 85% the proportion of persons with diabetes who have a glycosylated hemoglobin measurement at least once a year. (Baseline: 80.1% in 2000; Current: 87.4% in 2003)
Objective 5.7	Increase to 73% the proportion of persons with diabetes who have an annual dilated eye exam. (Baseline: 65.5% in 1998; Current: 66.2% in 2003)
Objective 5.8	Increase to 55% the proportion of persons with diabetes who perform self blood-glucose monitoring (SBGM) at least daily. (Baseline: 50.3% in 1998; Current: 61.7% in 2003)
Objective 5.9	Increase to 52% the proportion of persons with diabetes who have received diabetes education in the past year from someone other than their physician, such as a registered dietician or certified diabetes educator. (Baseline: 29.5% in 1997; Current: 40.2% in 2003)

Table 3.1: Prevalence of diabetes awareness: WVBRFSS, 2003

Characteristic	Men			Women			Total		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
TOTAL	1,322	8.7	(7.2-10.3)	2,024	10.8	(9.3-12.3)	3,346	9.8	(8.7-10.9)
Age									
18-24	92	0.0	--	111	2.8	(0.0-8.3)	203	1.4	(0.0-4.0)
25-34	187	1.1	(0.0-2.5)	268	4.5	(1.7-7.3)	455	2.8	(1.2-4.4)
35-44	235	4.7	(1.7-7.6)	322	6.0	(3.2-8.8)	557	5.4	(3.3-7.4)
45-54	284	8.4	(5.1-11.7)	388	9.9	(6.7-13.0)	672	9.1	(6.8-11.4)
55-64	250	14.5	(10.0-19.0)	396	20.6	(16.0-25.1)	646	17.6	(14.4-20.8)
65+	273	22.4	(17.0-27.7)	528	17.2	(13.8-20.6)	801	19.3	(16.3-22.3)
Education									
Less than H.S.	244	11.1	(7.0-15.1)	390	20.4	(16.2-24.7)	634	15.9	(12.9-18.9)
H.S. or G.E.D.	529	8.6	(6.3-11.0)	791	10.1	(8.0-12.3)	1,320	9.4	(7.8-11.0)
Some Post-H.S.	265	7.7	(4.6-10.8)	476	9.0	(5.7-12.4)	741	8.5	(6.1-10.8)
College Graduate	281	8.0	(4.7-11.2)	366	4.1	(2.1-6.2)	647	6.1	(4.2-8.0)
Income									
Less than \$15,000	170	12.9	(8.0-17.7)	355	15.4	(11.5-19.3)	525	14.3	(11.3-17.4)
\$15,000- 24,999	263	11.3	(7.4-15.2)	461	14.1	(10.8-17.5)	724	12.9	(10.4-15.4)
\$25,000- 34,999	194	10.1	(5.5-14.8)	269	10.2	(6.3-14.0)	463	10.1	(7.1-13.1)
\$35,000- 49,999	211	6.5	(3.0-10.0)	266	4.1	(1.7-6.6)	477	5.4	(3.2-7.6)
\$50,000- 74,999	168	6.9	(3.2-10.6)	225	6.0	(3.0-9.1)	393	6.5	(4.1-8.8)
\$75,000+	183	5.2	(2.3-8.1)	146	2.2	(0.2-4.3)	329	4.2	(2.2-6.2)

Figure 3.1: Prevalence of diabetes awareness by year: WVBRFSS, 1990-2003

Figure 3.2: Prevalence of diabetes awareness by county: WVBRFSS, 1999-2003

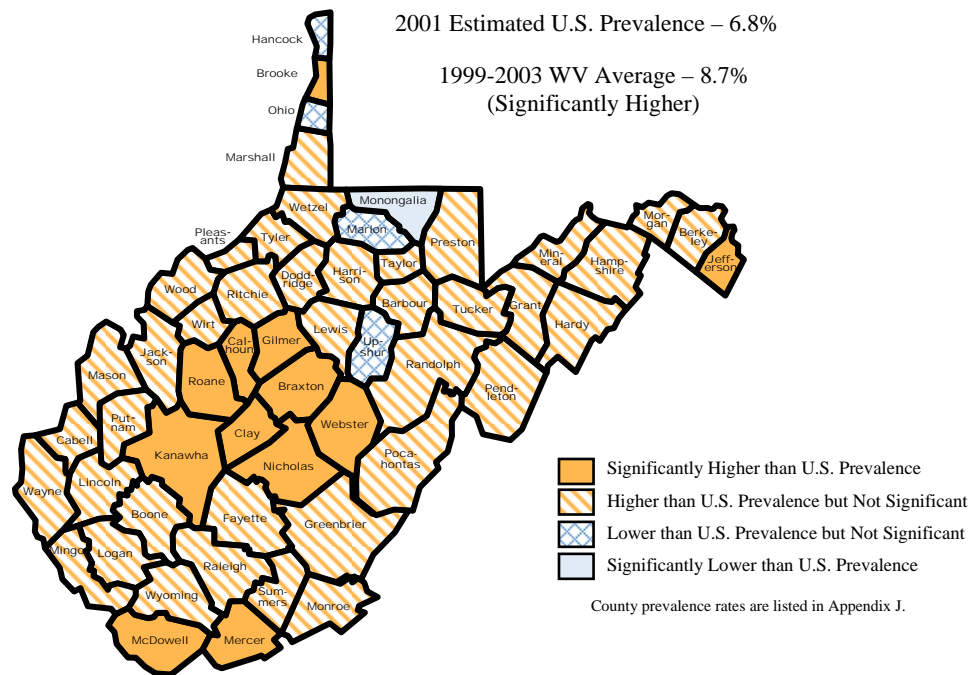


Table 3.2: Key health care issues among diabetic respondents: WVBRFSS, 2003

Characteristic	Did not have an HbA1c test even once in the last year or has never heard of it			Did not have a foot exam by a health professional even once in the past 12 months ^a			Did not have a dilated eye exam in the past one year		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
TOTAL	328	12.6	(8.4-16.7)	369	35.4	(29.9-40.9)	373	33.8	(28.4-39.3)
Sex									
Males	123	14.1	(6.9-21.3)	138	33.8	(25.0-42.6)	139	33.3	(24.6-42.0)
Females	205	11.4	(6.7-16.1)	231	36.6	(29.6-43.7)	234	34.2	(27.3-41.2)
Age									
18-44	38	11.4^b	(1.7-21.2)	42	48.3^b	(30.3-66.3)	38	47.4^b	(28.4-66.4)
45-54	59	8.3	(0.0-17.6)	66	31.6	(19.5-43.8)	67	43.9	(30.8-57.0)
55-64	108	9.6	(3.2-16.0)	113	32.4	(22.9-41.9)	114	36.0	(26.3-45.8)
65+	122	17.6	(9.8-25.4)	147	33.4	(25.0-41.9)	153	22.9	(15.6-30.2)
Education									
Less than H.S.	92	19.1	(9.3-28.8)	107	32.9	(23.0-42.8)	109	36.9	(26.8-46.9)
H.S. or G.E.D.	129	9.5	(4.2-14.8)	149	39.3	(30.5-48.0)	146	33.5	(24.9-42.1)
Some Post-H.S.	65	9.9	(2.5-17.2)	69	26.5	(14.7-38.3)	73	31.8	(19.2-44.4)
College Graduate	41	12.3^b	(0.0-25.1)	43	44.5^b	(27.9-61.1)	44	31.5^b	(16.3-46.6)
Income									
Less than \$15,000	78	15.9	(7.6-24.1)	88	37.0	(25.6-48.4)	91	31.4	(21.1-41.7)
\$15,000- 24,999	90	19.5	(10.0-29.0)	103	37.3	(26.8-47.9)	101	34.4	(23.7-45.0)
\$25,000- 49,999	68	8.1	(0.0-16.3)	73	31.8	(20.2-43.4)	74	31.2	(19.6-42.9)
\$50,000+	48	3.6^b	(0.0-8.7)	49	34.7^b	(20.1-49.3)	49	41.2^b	(26.3-56.1)

a. Excludes amputees.

b. Use caution in interpreting percentages with N<50.

Table 3.3: Other health care issues among diabetic respondents: WVBRFSS, 2003

Diabetic respondents who...	Men			Women			Total		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Now take insulin	142	21.1	(13.7-28.5)	242	28.9	(21.6-36.2)	384	25.6	(20.3-30.9)
Now take diabetes pills	142	67.1	(58.5-75.8)	240	68.3	(60.9-75.6)	382	67.8	(62.1-73.4)
Did NOT visit a doctor, nurse, or other health professional even once in the past 12 months for their diabetes	138	6.7	(1.3-12.1)	236	4.9	(2.1-7.7)	374	5.7	(2.8-8.5)
Were told by a doctor that they have diabetic retinopathy	142	17.5	(10.5-24.5)	238	20.4	(14.8-25.9)	380	19.1	(14.8-23.5)
Have ever had a foot sore that took more than four weeks to heal	142	12.7	(6.5-18.8)	242	15.6	(10.5-20.7)	384	14.3	(10.4-18.2)
Have NEVER taken a class in self-management of diabetes	142	54.9	(45.9-63.9)	242	63.4	(55.9-70.8)	384	59.8	(54.1-65.5)
Never check blood glucose at home or check it less than once daily	137	41.2	(32.1-50.3)	237	36.2	(29.2-43.1)	374	38.3	(32.7-43.8)
Never self-check feet for sores or check them less than once daily	138	29.8	(21.4-38.3)	235	19.6	(13.9-25.3)	373	24.0	(19.1-28.9)

Figure 3.3: General health status and health care coverage by diabetic status: WVBRFSS 2003

