CHAPTER 18: IMMUNIZATION

No Flu Immunization: Adults aged 65 and older who did not have a flu shot in past 12 months.

No Pneumonia Immunization: Adults aged 65 and older who have never had a pneumonia shot (pneumococcal vaccine).

State Prevalence No Flu: 30.9% (95% CI: 27.5-34.4); 21st among 54 BRFSS participants.

National prevalence: 30.8% (95% CI: 30.1-31.5).

No Pneumonia: **36.2%** (95% CI: 32.5-39.8); 24th among 54 BRFSS participants.

National prevalence: 36.2% (95% CI: 35.5-37.0).

Time Trends The percentage of elderly adults who were not immunized decreased

significantly between 1993 and 2003. The prevalence of no flu shot declined from 50.2% in 1993 to 30.9% in 2003, while the percentage of elderly adults who

had never received a pneumonia shot decreased from 71.2% to 36.2%.

Gender No Flu:

Men 29.3% (95% CI: 23.5-35.2); Women 32.1% (95% CI: 27.7-36.4).

No Pneumonia:

Men 33.7% (95% CI: 27.7-39.8); **Women 37.9%** (95% CI: 33.4-42.4).

Women had slightly higher rates of no flu and pneumonia immunization than

men (although the differences were not statistically significant).

Age Adults aged 65 to 74 were significantly more likely to have not received a flu

shot (36.1% versus 25.7%) and a pneumonia shot (44.3% versus 28.0%) than

those aged 75 and older.

Education The risk of no immunization did not significantly differ by educational

attainment. Adults with a high school diploma/GED were most likely to have not

received a flu shot (33.9%) and a pneumonia shot (39.9%).

Household Income The prevalence of no flu immunization decreased as income increased, until

household income reached \$50,000. Adults in the poorest households had a significantly higher rate of no flu immunization than those with an annual income between \$35,000 and \$49,999. The prevalence of pneumonia vaccination did not

significantly differ by household income.

West Virginia Healthy People 2010 Objectives

Objective 14.13a Increase the proportion of non-institutionalized adults 65+ years who are vaccinated for:

14.13a.1 Influenza to 90%. (Baseline: 58% in 1997; Current: 69.1% in 2003)

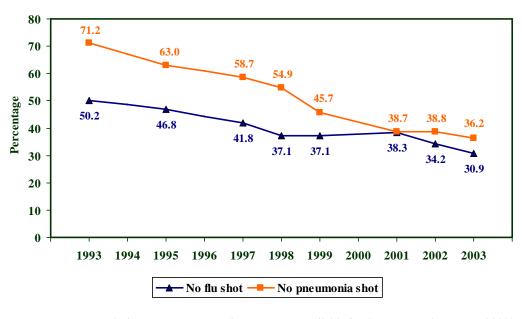
14.13a.2 Pneumococcal disease to 90%. (Baseline: 41% in 1997; Current: 63.8% in 2003)

Table 18.1: No immunizations among adults aged 65 and older: WVBRFSS, 2003

Characteristic	No flu shot in past 12 months			No pneumonia shot in lifetime		
	# Resp.	%	95% CI	# Resp.	%	95% CI
TOTAL	801	30.9	(27.5-34.4)	785	36.2	(32.5-39.8)
Sex						
Males	274	29.3	(23.5-35.2)	270	33.7	(27.7-39.8)
Females	527	32.1	(27.7-36.4)	515	37.9	(33.4-42.4)
Age						
65-74	437	36.1	(31.1-41.1)	427	44.3	(39.2-49.4)
75+	364	25.7	(20.9-30.5)	358	28.0	(22.9-33.0)
Education			'			
Less than H.S.	275	33.7	(27.6-39.9)	269	36.7	(30.4-42.9)
H.S. or G.E.D.	296	33.9	(28.1-39.7)	291	39.9	(33.8-46.0)
Some Post-H.S.	141	25.7	(17.4-33.9)	138	29.6	(21.6-37.7)
College Graduate	87	19.8	(11.3-28.4)	85	31.7	(21.0-42.3)
Income						
Less than \$15,000	179	39.2	(31.1-47.3)	177	38.1	(30.1-46.2)
\$15,000- 24,999	228	30.7	(24.3-37.1)	225	35.7	(29.0-42.4)
\$25,000- 34,999	111	27.7	(19.0-36.4)	111	34.1	(24.8-43.4)
\$35,000- 49,999	67	18.1	(8.9-27.2)	65	33.6	(21.7-45.5)
\$50,000+	44	31.2ª	(17.1-45.2)	43ª	46.0	(30.3-61.7)

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

Figure 18.1: No flu shot (in past 12 months) and no pneumonia shot (in lifetime) among adults aged 65 and older by year: WVBRFSS, 1993-2003



----- Trend Line

NOTE: Data not available for the years 1994, 1996, and 2000.