

## Can we use preventive care utilization to estimate population health literacy?

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**Table 1. Demographic characteristics of adults by time since last checkup.**

(N=425,414)	Checkup <1 year (n=311,328)	Checkup 1-2 years (n=50,913)	Checkup >2 years (n=63,173)
<b>Race</b>	n (weighted %)	n (weighted %)	n (weighted %)
White, non-Hispanic	243,330 (67.8)	40,093 (66.4)	50,242 (68.7)
Black, non-Hispanic	27,754 (11.7)	3,322 (8.5)	2,938 (6.2)
Asian, non-Hispanic	5,248 (3.3)	1,056 (4.3)	1,076 (2.9)
Hispanic	20,554 (14.0)	3,861 (17.2)	5,157 (17.9)
Multi/Other	11,049 (3.4)	2,102 (3.6)	3,087 (4.2)
<b>Sex</b>			
Female	200,972 (55.0)	30,301 (47.9)	32,791 (39.8)
Male	110,356 (45.0)	20,612 (52.1)	30,382 (60.2)
<b>Age</b>			
18-39 years	46,410 (32.6)	12,906 (48.2)	17,905 (52.7)
40-64 years	149,320 (45.3)	27,672 (43.1)	34,418 (40.6)
65+ years	115,598 (22.1)	10,335 (8.7)	10,850 (6.7)
<b>Education</b>			
Less than HS graduate	29,317 (10.0)	3,943 (10.1)	6,555 (13.7)
HS graduate	92,533 (27.8)	14,260 (26.7)	19,953 (30.6)
Less than college graduate	82,300 (26.6)	14,163 (26.8)	17,381 (26.1)
College graduate	106,093 (35.6)	18,388 (36.3)	19,102 (29.6)
<b>Income</b>			
<\$10,000	14,031 (4.4)	2,157 (4.5)	3,657 (5.8)
<\$25,000	62,527 (17.1)	9,558 (17.8)	15,224 (24.0)
<\$50,000	73,768 (21.5)	12,149 (21.7)	15,900 (22.7)
\$50,000+	117,578 (43.5)	21,175 (44.3)	21,273 (35.4)
Missing	43,424 (13.4)	5,874 (11.8)	7,119 (12.1)
<b>Health Care Coverage</b>			
Yes	291,107 (90.9)	43,207 (78.6)	45,884 (65.3)
No	19,572 (9.1)	7,564 (21.4)	17,128 (34.7)
<b>Has a Personal Doctor</b>			
Yes	291,074 (90.1)	41,571 (73.4)	37,826 (52.4)
No	19,663 (9.9)	9,221 (26.6)	25,119 (47.6)
<b>Health Status (outcome)</b>			
Good	247,241 (82.9)	43,630 (87.6)	52,569 (85.0)
Poor	64,087 (17.1)	7,283 (12.5)	10,604 (15.0)

Source: 2009 Behavioral Risk Factor Surveillance System, CDC.

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**Table 2. Crude and adjusted odds ratio of poor health status.**

	Crude Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
<b>Time Since Last Checkup</b>		
Within 1 year	1.00	1.00
1-2 years	0.69 (0.64, 0.73)	0.78 (0.72, 0.84)
More than 2 years	0.87 (0.82, 0.92)	0.92 (0.85, 0.98)
<b>Race</b>		
White, non-Hispanic		1.00
Black, non-Hispanic		1.21 (1.13, 1.29)
Asian, non-Hispanic		1.05 (0.88, 1.27)
Hispanic		1.43 (1.32, 1.54)
Multi/Other		1.53 (1.38, 1.69)
<b>Age</b>		
18-39 years		1.00
40-64 years		2.68 (2.51, 2.86)
65+ years		3.19 (2.97, 3.43)
<b>Sex</b>		
Male		1.02 (0.98, 1.07)
Female		1.00
<b>Education</b>		
Less than HS graduate		3.17 (2.91, 3.45)
HS graduate		1.86 (1.74, 1.98)
Less than college graduate		1.63 (1.53, 1.74)
College graduate		1.00
<b>Income</b>		
<\$10,000		7.38 (6.73, 8.09)
<\$25,000		4.44 (4.16, 4.74)
<\$50,000		2.29 (2.12, 2.43)
\$50,000+		1.00
<b>Health Care Coverage</b>		
Yes		1.00
No		1.11 (1.03, 1.19)
<b>Has a Personal Doctor</b>		
Yes		1.29 (1.20, 1.40)
No		1.00

Source: 2009 Behavioral Risk Factor Surveillance System, CDC.

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Table 3. Crude and adjusted odds ratio of history of multiple chronic diseases.

	Crude Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
<b>Time Since Last Checkup</b>		
Within 1 year	1.00	1.00
1-2 years	1.12 (1.06, 1.17)	1.08 (1.02, 1.14)
More than 2 years	2.01 (1.92, 2.09)	1.63 (1.55, 1.72)
<b>Race</b>		
White, non-Hispanic		1.00
Black, non-Hispanic		1.10 (1.03, 1.17)
Asian, non-Hispanic		1.17 (1.04, 1.31)
Hispanic		0.97 (0.90, 1.03)
Multi/Other		1.15 (1.05, 1.26)
<b>Age</b>		
18-39 years		1.00
40-64 years		0.93 (0.89, 0.97)
65+ years		1.92 (1.83, 2.03)
<b>Sex</b>		
Male		1.31 (1.26, 1.35)
Female		1.00
<b>Education</b>		
Less than HS graduate		2.03 (1.88, 2.20)
HS graduate		1.58 (1.51, 1.66)
Less than college graduate		1.39 (1.33, 1.45)
College graduate		1.00
<b>Income</b>		
<\$10,000		2.52 (2.31, 2.75)
<\$25,000		1.87 (1.77, 1.98)
<\$50,000		1.47 (1.41, 1.54)
\$50,000+		1.00
<b>Health Care Coverage</b>		
Yes		1.00
No		1.29 (1.21, 1.38)
<b>Has a Personal Doctor</b>		
Yes		1.54 (1.45, 1.64)
No		1.00

Source: 2009 Behavioral Risk Factor Surveillance System, CDC.

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*Table 4. Self-reported health status vs. chronic diseases.*

Health Status	0-1 Chronic Conditions	2+ Chronic Conditions	Total
Good or better	56.92%	43.08%	100%
	91.38%	76.07%	84.09%
Fair or Poor	28.38%	71.62%	100%
	8.62%	23.93%	15.91%
Total	52.38%	47.62%	100%
	100%	100%	100%

Source: 2009 Behavioral Risk Factor Surveillance System, CDC