State of Wyoming



Department of Health

Cardiovascular Disease Risk Factors in Wyoming

Results from the 2003 Wyoming Behavioral Risk Factor Surveillance System

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For more information about the Behavioral Risk Factor Surveillance System (BRFSS), visit the CDC website at www.cdc.gov/brfss.

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Executive Summary

All six major potentially modifiable risk factors for cardiovascular disease (CVD) - smoking, high blood pressure, elevated cholesterol, overweight, physical inactivity, and diabetes – were included on the Wyoming Behavioral Risk Factor Surveillance System (BRFSS) in 2003. This report summarizes those results by addressing each risk factor separately, and addressing persons reporting any of the six factors, or three or more of the six. In addition, workplace exposure to environmental tobacco smoke for non-smokers is considered as a separate risk factor. Associations among risk factors and between risk factors and measures of current health status are also included in the report. Finally, smoking cessation and weight loss attempts are included as strategies to reduce CVD risk.

A total of 4,004 randomly selected non-institutionalized adults 18 years and older were surveyed by telephone in the Wyoming BRFSS during 2003. Results were adjusted for different probabilities of selection and further adjusted to represent the adult population in Wyoming by age and gender. Data were analyzed by sex, age group, race/ethnicity, educational attainment, household income, marital status, population density group, employment, and health insurance status. Over 85% of all respondents, or an estimated 323,000 Wyoming adults, reported one or more of the six potentially modifiable risk factors for CVD, and over one fourth reported three or more. Results showed considerable variation among groups, as noted in the table below.

	Prevalence	Range of Prevalence Rates (%) and Group						
Risk Factor	% (CI)	Low	Group	High	Group			
Smoking (current)	24.6 (23.1-26.2)	10.5	Coll. grads	43.6	<hs grads<="" td=""></hs>			
Overweight (BMI <u>></u> 25)	57.1 (55.3-58.9)	42.5	Students	67.8	Age 55-64			
High blood pressure	23.8 (22.4-25.3)	5.4	Students	52.8	Age 65+			
High cholesterol*	27.1 (25.6-28.6)	4.1	Students	46.1	Age 55-64			
Physical inactivity**	44.6 (42.8-46.4)	23.9	Students	59.5	Age 65+			
Diabetes	5.8 (5.1-6.6)	0	Age 18-24	16.3	Out of work			
Any CVD risk factor	85.1 (83.8-86.4)	68.1	Students	94.3	Out of work			
3 or more risk factors	26.8 (25.3-28.3)	5.5	Students	46.1	Retired			
* Among all ragmondant	* A							

Summary of Results	
Wyoming BRFSS 2003	3

* Among all respondents ** Did not meet recommendation for vigorous or moderate exercise

Prevalence rates tended to be lower among younger adults, students, and those with higher levels of education and income. Rates were higher for men, older adults, the retired, out of work, and uninsured adults. After examining risk factors that tended to appear together, overweight adults or those with diabetes, high blood pressure, or high cholesterol were also identified as high-risk groups.

Although smoking, overweight, high blood pressure, high cholesterol, physical inactivity, and diabetes are often addressed because they have been shown to increase future risk for CVD, the results also showed a correlation between these risk factors and current quality of life. For example, the more risk factors respondents reported, the more likely they were to report fair or poor health, and the less likely to report excellent or very good health, as shown below. Other measures of current quality of life that were associated with one or more risk factors included being disabled or out of work. These results suggest that both long-range and immediate rewards may be reaped by successful behavior modification.



Health Status by No. of CVD Risk Factors 2003 WY BRFSS

I. Introduction

Cardiovascular disease (CVD) is the leading cause of death in Wyoming, accounting for 32% of all deaths in 2002.¹ In addition, over half of the cost of hospital discharges in the state is CVD-related.² CVD includes a wide range of diseases affecting the circulatory system, including coronary heart disease, congestive heart failure, high blood pressure, cerebrovascular disease (stroke), and rheumatic heart disease. CVD mortality rates have been declining in recent years in the U.S., with the improvement attributed to both medical advances and improved lifestyles. Despite the decrease in mortality rates, the estimated cost of CVD remains staggering. For 2002, the estimated economic cost of CVD in the U.S. was \$329 billion, or about \$1,150 per person per year.³ These figures include direct costs for nursing home care, hospitalizations, surgery, doctor visits, drugs, medical equipment, and home health care, and indirect costs, such as lost productivity due to illness and premature death from CVD. Wyoming's share of these expenditures was estimated to be about \$573 million, assuming similar disease rates and charges.

Several factors have been identified which increase the risk of developing CVD.⁴ These factors are frequently referred to as *risk factors*, and include both inherent and modifiable categories. Inherent risk factors that cannot be changed include race, sex, age, and family history. For example, men are more likely than women to develop CVD, and risk increases with age for both sexes. Potentially modifiable risk factors for CVD include high blood pressure, elevated blood cholesterol, smoking, diabetes, obesity, and physical inactivity. Most of these modifiable risk factors approximately double the *relative risk* of developing CVD. Relative risk is the ratio of the risk of disease (or death) in two groups, usually one with a risk factor and one without. The first four are considered by some to be the "major risk factors" because they have slightly higher relative risks than obesity or inactivity, while others consider all six major risk factors. This report discusses all six.

Relative risk data are obtained from epidemiologic studies of large populations. For example, such studies have found that smokers are about twice as likely to develop CVD as non-smokers. This does not mean that all smokers will develop CVD, or that non-smokers will not. It simply means that the chances of developing CVD are increased among smokers. Using the relative risk and the prevalence of the risk factor in the population, it is possible to estimate the proportion of death or disease in the population attributable to each risk factor. Table 1 shows the attributable risk for coronary heart disease, a major component of CVD, for the United States. For example, approximately 40 percent of coronary heart disease has been estimated to be attributed to high cholesterol and 22 percent to smoking. The estimate is higher for high cholesterol because there are more adults with elevated cholesterol than there are smokers. Attributable risk estimates total greater than 100% because of interactions between risk factors.

Primary prevention seeks to reduce the incidence of CVD by addressing risk factors. Comparisons of attributable risk can be used by health departments or program managers to prioritize programs. Common primary prevention strategies include exercise programs, smoking cessation, and weight control.

Proportion of Coronary Heart D	roportion of Coronary Heart Disease Attributed to Various Kisk Factors, U.S.						
Risk Factor	Best estimate (%)	Range (%)					
Cholesterol ≥200 mg/dL	43	39-47					
Physical inactivity	35	23-46					
Blood pressure≥140/90	25	20-29					
Cigarette smoking	22	17-25					
Obesity *	17	7-32					
Diabetes	8	1-15					

 Table 1

 Proportion of Coronary Heart Disease Attributed to Various Risk Factors. U.S.⁴

* Based on body mass index $> 27.8 \text{ kg/m}^2$ for men and $> 27.3 \text{ kg/m}^2$ for women.

This report discusses each of the six CVD risk factors, the presence of one or more, or three or more of these risk factors, and associations among the risk factors. Associations between each of these risk factors and selected measures of quality of life are also included. In addition, the percent of non-smoking indoor workers who were exposed to secondhand tobacco smoke at work is addressed. The report also includes a section on the risk reduction strategies of smoking cessation and weight control.

II. Methods

The Behavioral Risk Factor Surveillance System (BRFSS) collects data from randomly selected non-institutionalized adults age 18 and older, through monthly telephone surveys. All 50 states currently conduct the survey, with the collaboration and support of the federal Centers for Disease Control and Prevention (CDC). In 2003, Wyoming conducted 4,004 surveys, using the established BRFSS protocol. Following data collection, the results were adjusted by the CDC to account for different probabilities of selection, and further adjusted to be representative of the total adult population of Wyoming by age and gender. Demographics of the sample are shown in Table 2. Note that the sample of respondents under-represents younger adults and males, compared with the weighted percentages which have been adjusted to match the actual population.

Prevalence estimates and confidence intervals were determined with Stata version 8, which takes into account the complex sample design of the BRFSS. The *95% confidence interval*, or margin of error, defines the range of values within which the true population prevalence rate would fall in 95 out of 100 samples taken from the population. Respondents with missing values were excluded from analysis of that variable, unless otherwise noted. With the exception of overweight and income measures, this usually had little effect on the results. Confidence intervals are presented in the Supplemental Tables S-1 through S-12 on pages 27-32 of the report. When comparisons such as "more likely" or "higher than" are made in the findings presented in the Supplemental Tables with P values <0.05.

Table 2
Demographics of Sample
Wyoming BRFSS 2003
Adults aged 18 and older

	Unwei	ighted	Weighted		Unweighted		Weighted
	Respo	ndents	Population		Respo	ndents	Population
	Ν	%	%		Ν	%	%
Total	4,004	100	100	Education			
				<hs< td=""><td>276</td><td>6.9</td><td>7.5</td></hs<>	276	6.9	7.5
Sex				HS grad	1,310	32.8	33.8
Male	1,657	41.4	50.0	Some coll.	1,303	32.6	33.0
Female	2,347	58.6	50.0	College grad	1,109	27.7	25.8
Race/Ethnicity				Population der	nsity		
White	3,626	91.4	90.2	Ctys >50K**	1,179	30.2	30.4
Hispanic	173	4.4	5.3	Ctys 10K-50K	1,562	40.0	40.7
Other	170	4.3	4.5	Ctys <10,000	1,166	29.8	28.9
Age				Insurance status		us	
18-24	286	7.2	14.7	Insured	3,379	84.7	82.9
25-34	560	14.1	15.7	Uninsured	610	15.3	17.1
35-44	712	17.9	18.8				
45-54	942	23.7	20.8	Marital status			
55-64	674	16.9	13.6	Married	2,382	59.6	64.9
65+	804	20.2	16.4	Not married	1,615	40.4	35.1
Income				Employment			
<\$15,000	382	9.5	8.8	Employed	2,568	64.3	66.0
\$15-<\$25,000	658	16.4	15.8	Out of work	288	7.2	6.7
\$25-<\$50,000	1,301	32.5	33.2	Homemaker	336	8.4	8.2
\$50-<\$75,00	701	17.5	18.1	Student	106	2.7	4.9
\$75,000+	588	14.7	14.9	Retired	699	17.5	14.2
Unknown	374	9.3	9.2				
*WY population.	approxir	nate. fro	m weighted da	ata. ** >50K = L	aramie a	nd Natro	ona counties:

*WY population, approximate, from weighted data. ** >50K = Laramie and Natrona counties; 10K-50K = Albany, Campbell, Fremont, Sheridan, Sweetwater, Teton, and Uinta counties. Totals may not add to 100% (or 4,004) due to rounding (or missing values). All estimates derived from survey data are subject to errors from several sources. Measurement error may occur from survey inconsistencies, such as different interviewers reading a question in a slightly different manner. Data entry errors are also possible, although methods are in place to minimize such errors. Non-response error is introduced when respondents refuse to answer, and recall error occurs when their memory of past events is inaccurate. There is also potential error involved in self-reporting information that the respondent may recognize as socially undesirable, such as smoking. Studies have shown that errors in self-reporting height and weight do exist on surveys such as the BRFSS, with women tending to under-report their weight, and men to overestimate their height.⁵ While these types of errors cannot easily be measured for a particular survey, the sampling error, which results because only a fraction of the target population answers the questions, can be estimated. The confidence interval, described above, estimates sampling error and provides an indication of the precision of the survey results.

Another limitation is that these data are from a phone survey, and thus the homeless, persons in households without phones (or with only cell phones), and certain disabled persons are not represented. In Wyoming, the rate of phone coverage is about 96% and generally is not a problem overall. Phone coverage may be an issue for deriving accurate estimates among lower income persons, certain demographic groups, or when the item of interest is likely to be much higher among those with no phones (such as lack of health insurance). College students living in dormitories, incarcerated persons, and adults in nursing homes are also not included in the sample. Declining response rates for telephone surveys are another concern. BRFSS response rates in general have declined from about 70% ten years ago to about 50% or less in recent years.

III. Results

A. Risk Factors for Cardiovascular Disease

Cigarette Smoking

Measure: Current cigarette smoking is defined as smoking 100 cigarettes in a person's lifetime and currently smoking every day or some days. Regular smokers are current smokers who smoke every day, while irregular smokers smoke only on some days.

Smoking is the single most preventable cause of death in the U.S., responsible for nearly one in every five deaths, or about 435,000 per year.⁶ Smoking increases the risk of heart disease and stroke in addition to increasing the risk of many types of cancer.

- About one in every four Wyoming respondents (24.6%) reported current cigarette smoking, representing about 93,500 persons.
- Among all adults, 19.9% smoke every day, 4.8% smoke on some days, and 26.3% are former smokers. In addition, 49.1% never smoked cigarettes. (Totals may not add to 100% due to rounding).
- Highest current smoking rates were found for those with less than a high school education (44%), the uninsured (43%), and those reporting a race or ethnicity other than white or Hispanic (42.4%).
- Smoking rates were also high among adults who were out of work because they were either unemployed or unable to work (41.3%).
- Young adults (Figure 1), those in households with incomes below \$25,000, and those who were not married all had current smoking rates above 30%.
- Persons living in the two largest counties were more likely to smoke than those in counties of 10,000 -50,000 population or the smallest counties (<10,000 population) (28.6%, 23.3%, and 21.7% respectively).
- Older persons (Figure 1), those who were retired, college graduates, and persons in households with incomes greater than \$75,000 were least likely to smoke, with current smoking rates below 15%.
- Smoking rates were similar for men and women.
- Smokers were more likely than non-smokers to report fair or poor health (17.4% vs. 10.7%), being disabled (22.1% vs. 17.9%) and out of work (11.3% vs. 5.3%) (Figure 2).

Figure 1.



Current Smoking by Age Group

Figure 2.

Smokers and Non-Smokers Compared 2003 WY BRFSS



Overweight

Measure: The definition of overweight was based on Body Mass Index (BMI), which is calculated from the following formula: BMI = body weight (in kilograms)/ height (in meters²) Persons with $BMI \ge 30$ are considered *obese* and those with BMI 25-29.9 are *overweight* (*but not obese*). In this report, unless otherwise noted, *overweight* refers to persons that are overweight or obese, having a BMI of 25 or above based on self-reported height and weight. Results from self-reports may differ from actual measurements because it has been found that women tend to under-report their weight and all persons tend to exaggerate their height.^{5,7}

Obesity is associated with heart disease, while the association between overweight and CVD is less clear. At the least, overweight appears to contribute to CVD risk by raising the probability of developing associated risk factors such as high blood pressure and diabetes.⁴

- Over half of all Wyoming respondents (57.1%) were overweight based on their self-reported height and weight, representing nearly 217,000 persons.
- One in five adults (20.1%) was obese, placing them at higher risk of developing CVD.
- The prevalence of overweight was at least 42%, or over 2 in every 5 adults, in every demographic group studied. Rates ranged from 42.5% for students and 42.6% for 18-24 year olds to 67.8% for 55-64 year olds (Figure 3).
- Other demographic groups with higher rates of overweight included men (66.3%), 45-54 year olds (62.7%), those out of work (62.3%), high school graduates (61.7%), and the retired (60.3%).
- Married adults were significantly more likely than the unmarried (which includes divorced and widowed persons) to be overweight (59.8% vs. 52.3%).
- While Hispanics and persons of race/ethnicities other than white or Hispanic appeared to have higher rates for overweight, these rates were not significantly higher than rates for non-Hispanic white adults.
- Overweight persons were more likely than those with BMI < 25 to report that their current health was fair or poor (13.5% vs. 10.6%) or to be disabled (19.8% vs. 17.1%), but not to be out of work (Figure 4).

Figure 3.



Figure 4.





High Blood Pressure

Measure: Respondents who were ever told by doctor, nurse or other health professional that they had high blood pressure (HBP) were considered to have high blood pressure, unless they were women who were only told during pregnancy.

High blood pressure increases the risk of developing coronary heart disease, stroke, and other forms of CVD. The current definition of high blood pressure is a systolic reading of 140 mm Hg or higher, or a diastolic reading of 90 mm Hg or higher, or taking medication.⁴

- Nearly one in every four respondents (23.8%) reported that they had been told they had HBP, representing over 90,000 Wyoming adults.
- High blood pressure prevalence increased greatly with age, from 5.6% for 18-24 year olds to 52.8% for adults age 65 and older (Figure 5).
- High blood pressure rates were lowest for students (5.4%), who tend to be younger, and high for retired persons (51.5%), who tend to be older.
- High blood pressure rates were similar for married and unmarried persons, and for different race and ethic groups. Rates were slightly higher for men than for women (25.3% vs. 22.4%).
- Over one third of persons who were out of work (unemployed or unable to work) reported HBP (33.6%).
- Adults living in the least densely populated counties (those with population < 10,000) were more likely than those in more densely populated counties to report HBP (28.0% for the counties <10,000 vs. 23.1% for the largest counties and 21.2% for mid-sized counties.)
- High blood pressure and body mass index were associated; 39.9% of obese adults and 25.8% of those overweight but not obese reported HBP compared with 14.0% of those who were neither obese nor overweight.
- Compared with persons without HBP, those with high blood pressure were much more likely to report fair or poor health status (8.7% and 24.0% respectively), disability (15.4% vs. 30.2%), and being out of work (5.9% vs. 9.5%; Figure 6).
- Over 70% of all persons with HBP reported taking medication for their high blood pressure, representing 16.9% of all Wyoming adults (data not shown).
- Among adults age 65 and older, 88.9% of those with HBP were taking medication, representing nearly half of all seniors (46.8% of persons age 65+).

Figure 5.



High Blood Pressure by Age Group 2003 WY BRFSS

Figure 6.

HBP and Non-HBP Compared 2003 WY BRFSS



High Cholesterol

Measure: Respondents were asked if they ever had their cholesterol tested, and if so, they were asked if they had ever been told by a doctor, nurse, or other health professional that their cholesterol was high. The denominator for this measure includes persons who never had their cholesterol checked, and thus is the percent of all adults in Wyoming who have been told their cholesterol was high.

The risk of CVD increases with increasing level of blood cholesterol, over an acceptable level of 200 mg/dL. Levels between 200 and 239 mg/dL are considered borderline-high, and levels of 240 mg/dL and above are considered high. High total cholesterol levels of 240 mg/dL and above can about double the risk of CVD.⁴

- Overall, 27.1% of Wyoming respondents reported that they had been told their cholesterol was high, representing over 100,000 persons.
- Over one in every five adults (22.3%) had never had their cholesterol checked and were included with those who were not told their level was high (data not shown).
- High cholesterol increased with age, from 4.8% for 18-24 year olds to 46.1% for adults 55-64 and 44.9% for adults age 65 and older (Figure 7).
- Persons living in the least densely populated counties were more likely than those in other counties to report high cholesterol (30.9% for smallest counties, 26.1% for largest counties, and 25.0% for those in-between).
- Married persons (30.0%) and those who were out of work (32.9%) or retired (45.0%) reported high rates for high cholesterol.
- High cholesterol was not associated with gender, race/ethnicity, education, or household income.
- Over one in ten adults (11.5%) reported both high blood pressure and high cholesterol, including over one fourth of all adults age 65 and older (25.3%; data not shown).
- Persons with high cholesterol were more likely than those without high cholesterol to report fair or poor health (18.8% vs. 9.8%), being disabled (24.8% vs. 16.8%) and being out of work (8.0% vs. 6.1%; Figure 8).

Figure 7.



Figure 8.

High and Non-High Cholesterol Compared 2003 WY BRFSS



High Cholesterol Non High cholesterol

Physical Inactivity

Measure: Several questions were asked about the frequency and duration of both moderate and vigorous activities that persons engaged in while not at work. Results were combined to determine the percent of respondents that met the recommendations to engage in moderate activities for 30 minutes a day at least 5 times a week or vigorous activities for 20 minutes a day at least 3 times a week. Those that did not meet either of these recommendations were considered to be physically inactive or "at risk".

Physical inactivity affects the risk of CVD both directly and indirectly, although the direct effects are not well understood. Exercise affects other CVD risk factors, including high blood pressure, high cholesterol, overweight, and diabetes. When all other effects are ruled out, physical inactivity increases the relative risk of CVD about 1.9 times, or about doubles the risk.⁴

- Over two in every five Wyoming respondents (44.6%) were not meeting the recommendations for physical activity, representing an estimated 169,500 persons.
- Adults who were least likely to be exercising adequately included persons age 65 and older (59.5%) (Figure 9), the retired (58.4%), the obese (55.3%), the out of work (54.8%), those with less than a high school education (53.2%), those from low income households (>50%), and 55-64 year olds (50.4%).
- Students were the least likely to be at risk for physical inactivity, with 23.9% not meeting the recommendations.
- Young adults age 18-24 or 25-34 years of age (Figure 9) or adults from households with incomes of \$75,000 or more were also more likely to be exercising (with 32.2%, 39.6%, and 35.7% respectively *not* meeting the recommendations).
- Physical inactivity was not associated with gender, marital status, race/ethnicity, or insurance status, and was only weakly associated with population density.
- About one fourth of those who did not meet the exercise recommendation engaged in no activity at all (10.5% of all respondents). Significant reductions in CVD risk could be gained by encouraging this group to initiate at least some physical activity.
- Persons who did not meet the exercise recommendations were twice as likely to report fair or poor health as those that exercised regularly (16.6% vs. 8.1%) and were also more likely to report being disabled (23.2% vs. 15.2%) and out of work (7.8% vs. 5.2%) (Figure 10).

Figure 9.



Physical Inactivity* by Age Group 2003 WY BRFSS

* Does not meet recommendation for vigorous or moderate exercise

Figure 10.





Does not meet rec Deets recommendation

Diabetes

Measure: Respondents were asked if they had ever been told by a doctor that they had diabetes. Women who had only been told they had diabetes during pregnancy were not included as having had diabetes. No distinction was made between other types of diabetes.

Diabetes is a significant health problem itself, but also increases the risk for coronary heart disease 2-4 times. About 68% of people with diabetes die from CVD.⁴

- The prevalence of diabetes among Wyoming adults was 5.8%, representing an estimated 22,000 persons.
- Diabetes was extremely age-dependent, increasing from 0% among 18-24 year olds to 12.1% for 55-64 year olds and 13.3% for adults age 65 and older (Figure 11).
- Demographic groups with high diabetes rates included those with less than a high school education (10.0%), and those in households with less than \$25,000 income (9.4%).
- High diabetes rates were also found among the out of work (16.3%), the retired (13.1%), and the obese (12.6%).
- Similar diabetes rates were found for men and women, for different race and ethnic groups, by marital and insurance status, and for counties with varying population density.
- Persons with diabetes were four times as likely as those without diabetes to report fair or poor health (43.5% vs. 10.4%), over twice as likely to report being disabled (41.7% vs. 17.5%) and three times as likely to report being out of work (19.0% vs. 6.0%; Figure 12).

Figure 11.



Diabetes by Age Group 2003 WY BRFSS

Figure 12.





Exposure to Workplace Environmental Tobacco Smoke (ETS)

Measure: Employed or self-employed persons who worked indoors most of the time were asked a state-added question about how often they were exposed to secondhand cigarette smoke at work. Persons who were frequently or sometimes exposed were considered to be at risk. Those who were exposed seldom or never were considered not at risk, although they could be exposed to ETS at home or other places. Unless otherwise noted, this measure is only reported for nonsmokers who worked mostly indoors because smokers already have considerable elevated risk of CVD due to their smoking and exposure to their own secondhand smoke. In addition to the usual demographics, this measure was also analyzed by region. Counties were grouped into the following five regions: **Southeast** (Albany, Goshen, Laramie, Platte), **Southwest** (Carbon, Lincoln, Sweetwater, Sublette, Uinta), **Northwest** (Big Horn, Hot Springs, Park, Teton, Washakie), **Northeast** (Campbell, Crook, Johnson, Sheridan, Weston), and **Central** (Converse, Fremont, Natrona, Niobrara).

About 35,000 non-smokers are estimated to die each year from heart disease brought on by exposure to tobacco smoke. ⁸

- Among all 1,788 respondents who worked indoors most of the time, 18.8% (representing approximately 31,000 workers) reported being exposed to secondhand tobacco smoke at work. Smokers were much more likely than non-smokers to be exposed (Figure 13).
- Over half (55%) of these exposed employees were non-smokers, representing about 17,000 non-smoking workers exposed to ETS.
- Considering only the 1,357 *non-smokers* who worked indoors, 13.7% of these non-smokers who worked indoors reported they were exposed to ETS at work.
- Non-smoking high school graduates who worked indoors and residents of the Southwest Region (Figure 14) had highest rates of exposure to ETS (20.8% and 21.6% respectively).
- College graduates (5.2%), residents of the Northwest Region (6.5%; Figure 14) and adults age 65 and older (8.7%) were among the non-smokers less likely to be exposed to environmental tobacco smoke at work.
- The rate of non-smoker exposure to ETS among all non-smokers who were employed was 9.7%, or nearly one in every ten employed non-smokers.
- Uninsured non-smokers were also more likely than insured non-smokers to report exposure to ETS at work (20.5% vs. 12.8% for the insured).
- A total of 29.7% of all respondents either smoked or were non-smokers exposed to ETS at work.
- No differences were noted between non-smokers who were exposed and those not exposed to ETS at work for health or disability status.

Figure 13.



ETS* Exposure Among Indoor Workers 2003 WY BRFSS



Figure 14.





* Environmental Tobacco Smoke

Multiple Risk Factors

Measure: The number of potentially modifiable CVD risk factors reported by each respondent was tallied and could be anywhere from zero to six. Persons with missing values were included in the denominator and thus were assumed to not have the risk factor. Non-smoker exposure to workplace ETS was not included in this measure. Analyses were done comparing persons reporting no risk factors with those reporting any, and those with fewer than three CVD risk factors with those who reported three or more.

- Only about 15% of respondents reported none of the CVD risk factors, with 85.1% reporting at least one, representing an estimated 323,000 Wyoming adults.
- Men were more likely than women to report any of the potentially modifiable CVD risks (88.6% vs. 81.7%).
- Thirty percent of all respondents reported one risk factor, 28.3% reported two, 17.8% reported three, 7.0% reported four, and about 2% reported five or all six. Results differed for men and women as shown in Figure 15. Men reported an average of 1.90 risk factors compared with 1.66 for women.
- Over one fourth (26.8%) of all Wyoming adults reported three or more CVD risk factors.
- Older adults, those with less education, those having lower household incomes, and the disabled were more likely than other persons to report three or more risk factors, which is consistent with results for the separate risk factors.
- The number of CVD risk factors was strongly associated with self-reported general health status as shown in Figure 16. The more risk factors reported, the more likely the respondent was to report fair or poor health.
- Persons with more CVD risk factors were also more likely to report being disabled and out of work. For example, 10.1% of persons with no risk factors were disabled, compared with 20.5% with one or more, and 29.0% with three or more. Only 2.6% of adults with no risk factors were out of work, compared with 7.5% with one or more, and 10.6% with three or more.

Figure 15.



No. of CVD Risk Factors by Sex 2003 WY BRFSS

Figure 16.





<u>Risk Factor Associations</u>

Many of the CVD risk factors were associated; that is, they tended to occur together in the same person. Table 3 illustrates these associations, with those that were significantly more likely to occur together indicated in pink. Risk factors were negatively associated, or occurred together less often than expected, are indicated in light gray. Note that each risk factor was either positively or negatively associated with at least four of the other five risk factors.

Associations between Risk Factors									
		Prevalence of this risk factor							
Of those in this risk	Overwt.	HBP	Chol. As	Diabetes	Meet PA	Current			
group:			% of all		recomm. *	Smoking			
All adults	57.1	23.8	27.1	5.8	44.6	24.6			
Overweight									
Yes		30.8	33.4	8.2	47.4	22.0			
No		14.0	18.7	2.6	40.4	28.0			
High Blood Pressure									
(HBP) Yes	74.6		48.3	15.5	52.6	19.8			
No	51.7		20.4	2.8	42.1	26.1			
High Cholesterol									
Yes	70.6	42.4		12.1	51.1	18.7			
No	52.3	16.8		3.4	41.7	26.5			
Diabetes									
Yes	80.9	63.6	56.5		60.6	18.2			
No	55.7	21.3	25.3		43.6	25.0			
PA recomm.*									
Doesn't meet	61.3	27.9	31.3	7.9		25.4			
Does meet	54.4	20.2	23.7	4.1		23.7			
Current Smoking									
Yes	51.1	19.2	20.8	4.3	46.3				
No	59.1	25.3	29.1	6.3	44.1				

Table 3	
Associations between Risk Fa	ac

* PA: physical activity; recommendation is for moderate or vigorous activity.

Guide to reading table: Select a risk factor from the left hand column and compare those with the risk factor (yes), to those without the risk factor (no). Example: 30.8% of overweight persons had high blood pressure, compared with 14.0% of those who were not overweight. Risk factors that were associated (p<0.05) are indicated by shading. Negative associations, where persons were *less* likely to report the risk factor, are indicated by lighter shading (e.g. Smoking and various other risk factors).

While the data in these tables and charts were not adjusted for differences in the age or sex of the respondents, additional analyses were done to determine if these associations still held when controlling for sex, age, and the other risk factors. Most results remained unchanged, although a few were apparently affected (confounded) by other factors. The negative associations between smoking and diabetes, and smoking and high blood pressure were no longer found when the analysis was controlled for these other factors. In addition, the exercise risk factor was no longer associated with high blood pressure or high cholesterol when controlled for sex, age, and the other risk factors.

Associations between the risk factors and measures of current quality of life are shown in Table 4. These data were reported in the findings for each risk factor but are summarized here for convenience.

	Pre	Prevalence of this factor					
Of those in this risk							
group:	F/P Health	Disabled	Out of Work				
All adults	12.3	18.9	6.7				
High BP							
Yes	24.0	30.2	9.5				
No	8.7	15.4	5.9				
BMI <u>></u> 25							
Yes	13.5	19.8	7.1				
No	10.6	17.1	5.7				
High Cholesterol							
Yes	18.8	24.8	8.0				
No	9.8	16.8	6.1				
Diabetes							
Yes	43.5	41.7	19.0				
No	10.4	17.5	6.0				
PA recommendation*							
Doesn't meet	16.6	23.2	7.8				
Does meet	8.1	15.2	5.2				
Current Smoking							
Yes	17.4	22.1	11.3				
No	10.7	17.9	5.3				
1+ CVD risks							
Yes	13.8	20.5	7.5				
No	3.8	10.1	2.6				
3+ CVD risks							
Yes	23.5	29.0	10.6				
No	8.2	15.2	5.3				

Table 4Associations of CVD Risk Factors withSelected Measures of Health and Health Status

* PA: physical activity; recommendation is for either moderate or vigorous exercise Out of work = those unemployed or unable to work, compared with ALL others, including the retired, self-employed, homemakers, etc.

Guide to reading table: Select a risk factor from the left hand column and compare those with the risk factor (yes), to those without the risk factor (no). Risk factors that were associated (p < 0.05) are indicated in pink.

B. Risk Reduction

Smoking Cessation

Measure: Smokers were asked if they had stopped smoking for a day or longer in the past year because they were trying to quit. Only persons who smoked every day were included in this measure.

Findings:

- Nearly half of all daily smokers (47.1%) stopped smoking for at least one day in the previous year because they were trying to quit, representing about 35,000 smokers.
- Younger smokers were the most likely to try to stop smoking, with 60.2% of 18-24 year old and 50.6% of 25-34 year old daily smokers reporting they stopped one day or more (Figure 17).
- Older smokers were the least likely to report stopping smoking for a day or more (25.9% of smokers age 65 and older; Figure 17).
- There were no statistically significant differences noted among the other demographic groups examined.
- Over half of all adults in Wyoming who ever smoked have quit smoking and are considered former smokers, representing 26.3% of all adults (data not shown).

Figure 17.



Smoking Cessation* by Age Group 2003 WY BRFSS

* Daily smokers who quit for 1 or more days in past year

Weight Control

Measure: All respondents were asked if they were trying to lose weight. This measure, however, looks only at those respondents who were overweight and trying to lose weight.

Findings:

- Over half (50.8%) of all overweight adults reported they were trying to lose weight.
- Overweight women were more likely than overweight men to report trying to lose weight (64.3% vs. 41.5%).
- Persons between 35 and 64 years old were more likely than younger or older persons to be trying to lose weight (Figure 18).
- Married persons were more likely than the non-married to be trying to lose weight (52.9% vs. 46.5%).
- Overweight students were least likely to be trying to lose weight, with only 21.5% so reporting.
- Among the overweight who were trying to lose weight, over half (53.2%) reported a desired weight that would still place them in the overweight category (data not shown).

Figure 18.



Weight Control* by Age Group 2003 WY BRFSS

* Overweight adults trying to lose weight

IV. Summary

The results presented in this report indicate that in 2003, 85.1% of all Wyoming adults, or an estimated 323,000 persons, had one or more of the six potentially modifiable risk factors related to cardiovascular disease. Or, conversely, only about 15% of all adults appear to be practicing lifestyles that were not increasing their risk of CVD. Over one fourth of all adults reported three or more risk factors for CVD. There was a wide range of results for different demographic groups, as summarized in Table 5 below.

Table 5							
Summary of Results							
Wyoming BRFSS 2003							
	Prevalence	Range	of Prevalence	Rates (%	%) and Group		
Risk Factor	% (CI)	Low	Group	High	Group		
Smoking (current)	24.6 (23.1-26.2)	10.5	Coll. grads	43.6	<hs grads<="" td=""></hs>		
Overweight (BMI > 25)	57.1 (55.3-58.9)	42.5	Students	67.8	Age 55-64		
High blood pressure	23.8 (22.4-25.3)	5.4	Students	52.8	Age 65+		
High cholesterol*	27.1 (25.6-28.6)	4.1	Students	46.1	Age 55-64		
Physical inactivity **	44.6 (42.8-46.4)	23.9	Students	59.5	Age 65+		
Diabetes	5.8 (5.1-6.6)	0	Age 18-24	16.3	Out of work		
Any CVD risk factor	85.1 (83.8-86.4)	68.1	Students	94.3	Out of work		
3 or more risk factors	26.8 (25.3-28.3)	5.5	Students	46.1	Retired		

* Among all respondents ** Did not meet recommendation for vigorous or moderate exercise

Prevalence rates tended to be lower among younger adults, students, and those with higher levels of education and income. Rates were higher among men, older adults, the retired, out of work, and uninsured adults. After examining risk factors that tended to appear together, overweight persons and those with diabetes, high blood pressure, or high cholesterol were also identified as high-risk groups. The range of results shown in Table 5 suggests that improvement is possible. Results also indicate that about half of smokers and half of the overweight were trying to improve.

Although smoking, overweight, high blood pressure, high cholesterol, physical inactivity, and diabetes are often addressed because they have been shown to increase future risk for CVD, the results also showed a correlation between these risk factors and current quality of life. For example, the more risk factors respondents reported, the more likely they were to report fair or poor health, and the less likely to report excellent or very good health. Persons reporting CVD risk factors were also more likely to report being disabled or out of work. These results suggest that both long-range and immediate rewards may be reaped by successful behavior modification.

Table S-1: Current Smoking

Table S-2: Overweight (BMI ≥25)

Population Group	Weighted Percent	Confidence Interval	Population Group	Weighted Percent	Confidence Interval
Total	24.6	23.1-26.2	Total	57.1	55.3-58.9
Gender			Gender		
Male	25.1	22.8-27.6	Male	66.3	63.6-68.9
Female	24.1	22.2-26.2	Female	47.6	45.3-50.0
	P=0.552			P<0.001	
Age Group			Age Group		
18-24	30.4	25.0-36.5	18-24	42.6	36.4-49.0
25-34	31.9	27.7-36.4	25-34	54.4	49.8-58.9
35-44	27.4	23.9-31.2	35-44	57.2	53.2-61.2
45-54	25.0	22.1-28.2	45-54	62.7	59.3-66.0
55-64	19.7	16.6-23.2	55-64	67.8	63.8-71.6
65+	12.8	10.5-15.6	65+	57.5	53.7-61.2
	P<0.001			P<0.001	
Race			Race		
White, non-Hispanic	23.4	21.8-25.0	White, non-Hispanic	56.5	54.6-58.3
Hispanic	30.1	22.6-38.9	Hispanic	63.5	54.6-71.5
Other race	42.4	33.9-51.3	Other race	64.1	55.4-72.0
	P<0.001			P=0.086	
Education			Education		
< High School grad	43.6	36.7-50.8	< High School grad	51.1	44.1-58.0
High School grad	31.1	28.3-34.1	High School grad	61.7	58.6-64.7
Some college	24.8	22 2-27 6	Some college	55.7	52 5-58 9
College grad	10.5	8 7-12 7	College grad	55 1	51 7-58 3
e en ege gruu	P<0.001	0., 12.,	e enrege grad	P=0.004	0117 0010
Household Income	1 0.001		Household Income	1 0.001	
<\$15,000	32.0	26 6-37 9	<\$15,000	57.2	50 8-63 3
\$15K-\$24 999	31.3	27.2-35.8	\$15K-\$24 999	58.5	53 8-62 9
\$25K_\$49 999	26.2	27.2 35.0	\$25K_\$49,999	57.9	54.8-60.9
\$20K-\$74 999	20.2	17 3-24 0	\$20K-\$74 999	57.7	53 6-61 8
\$75,000+	1/3	11 / 17 0	\$75,000+	57.7	53 2 62 1
Unknown	25.1	20.0-31.0	Unknown	10 0	13 6 56 2
Clikilowii	P<0.001	20.0-51.0	Olikilowii	P=0.208	45.0-50.2
Marital Status	1 <0.001		Marital Status	1-0.298	
Married	20.0	10 2 22 8	Married	50.8	577610
Not married	20.9	19.2-22.0 28.6 34.4	Not married	52.3	<i>J1</i> , <i>1</i> , <i>5</i> , <i>4</i>
Not married	D<0.001	28.0-34.4	Not married	D < 0.001	49.1-55.4
Dopulation Donaity	F<0.001		Donulation Dongity	F<0.001	
Counting >50,000	28.6	25 6 21 8	Counting >50,000	55.2	510596
Counties > 30,000	20.0	23.0-31.8	Counties = 10,000	55.5	55 0 60 7
Counties 10,000-30,000	23.3	20.9-23.8	Counties 10,000-50,000	50.2	55.0-00.7
Counties <10,000	21./ D-0.002	19.2-24.5	Counties <10,000	38.3 D=0.270	55.0-01.5
F	P=0.002			P=0.379	
Employment	26.2	24.2.20.2	Employment	67 0	55 7 (0 1
Employed	26.2	24.2-28.2	Employed	57.9	55.7-60.1
Out of work	41.3	34./-48.1	Out of work	62.3	55.4-68.8
Homemaker	20.8	15.9-26.8	Homemaker	50.4	44.4-56.5
Student	17.1	10.9-25.8	Student	42.5	32.0-53.8
Retired	14.6	12.0-17.6	Retired	60.3	56.3-64.1
_	P<0.001		_	P=0.001	
Insurance status	• • •	10 5 55 5	Insurance status		
Insured	21.0	19.5-22.6	Insured	57.5	55.5-59.4
Uninsured	43.0 D	38.4-47.7	Uninsured	56.5	51.7-61.1
	P<0.001			P=0.708	

Excludes missing values. P<0.05 indicates a statistically significant association

Table S-3: High Blood Pressure

Population Group	Weighted Percent	Confidence Interval	Population Group	Weighted Percent	Confidence Interval
Total	23.8	22.4-25.3	Total	27.1	25.6-28.6
Gender			Gender		
Male	25.3	23.1-27.6	Male	27.7	25.4-30.1
Female	22.4	20.6-24.2	Female	26.5	24.6-28.5
	P=0.047			P=0.456	
Age Group			Age Group		
18-24	5.6	3.1-9.8	18-24	4.8	2.7-8.5
25-34	6.6	4.4-9.7	25-34	10.6	7.9-14.1
35-44	16.9	14.0-20.2	35-44	23.7	20.3-27.3
45-54	23.5	20.7-26.6	45-54	30.9	27.7-34.3
55-64	38.2	34.3-42.3	55-64	46.1	42.0-50.3
65+	52.8	49.0-56.5	65+	44.9	41.2-48.8
	P<0.001			P<0.001	
Race			Race		
White, non-Hispanic	24.0	22.5-25.6	White, non-Hispanic	27.5	25.9-29.1
Hispanic	19.1	13.3-26.7	Hispanic	18.5	13.0-25.7
Other race	22.2	16.4-29.2	Other race	28.7	21.3-37.4
	P=0.338			P=0.058	
Education			Education		
< High School grad	29.2	23.7-35.3	< High School grad	28.6	23.0-34.9
High School grad	26.8	24.3-29.5	High School grad	26.4	23.9-29.1
Some college	19.9	17.6-22.4	Some college	24.9	22.4-27.6
College grad	22.9	20.4-25.7	College grad	30.1	27.3-33.2
5 5	P=0.001			P=0.068	
Household Income			Household Income		
<\$15.000	26.9	22.2-32.2	<\$15.000	24.6	19.9-29.8
\$15K-\$24 999	27.5	23 9-31 4	\$15K-\$24 999	28.3	24 6-32 3
\$25K-\$49 999	23.3	20.9-25.8	\$25K-\$49 999	26.5	23.6-28.8
\$50K-\$74 999	20.7	17 7-24 1	\$50K-\$74 999	20.1	23.7-30.8
\$75 000+	19.3	16 1-22 9	\$75,000+	27.6	23.8-31.7
Unknown	29.8	24 5-35 7	Unknown	30.3	25.0 51.7
Clikilowii	P=0.001	24.3-33.7	Chkildwii	P=0.640	23.1-30.1
Marital Status	1 0.001		Marital Status	1 0.040	
Married	24.5	22 8 26 1	Married	30.0	28 1-32 0
Not married	24.5	20.2-24.9	Not married	21.6	$10 4_{-}24 0$
Not married	D=0.174	20.2-24.9	Not married	D<0.001	19.4-24.0
Population Donaity	1-0.1/4		Dopulation Dongity	1 <0.001	
Counties >50,000	22.1	20 7 25 8	$C_{\text{ounties}} > 50,000$	26.1	23 / 28 0
Counties $> 30,000$	25.1	20.7-23.8	Counties = 10,000	20.1	23.4-20.9
Counties $10,000-50,000$	21.2	19.0-23.0	Counties $(10,000-50,000)$	23.0	22.7 - 27.3
Counties <10,000	20.0 D=0.001	23.2-30.8	Counties <10,000	30.9 D=0.006	28.1-33.9
E	P=0.001		Employment	P=0.000	
Employment	10.5	1(0.20.2	Employment	24.6	22.9.26.5
Employed	18.5	16.9-20.2	Employed	24.6	22.8-26.5
	33.6	27.9-39.9	Out of work	32.9	27.0-39.5
Homemaker	21.6	17.2-26.8	Homemaker	24.5	19.8-29.9
Student	5.4	1.7-16.3	Student	4.1	1.6-9.9
Retired	51.5	47.5-55.4	Retired	45.0	41.0-49.1
-	P<0.001		.	P<0.001	
Insurance status			Insurance status	• • •	
Insured	25.3	23.7-26.9	Insured	29.0	27.3-30.7
Uninsured	17.1	14.0-20.8	Uninsured	18.3	15.0-22.1
	P<0.001			P<0.001	

Excludes missing values. P<0.05 indicates a statistically significant association

Table S-5: Physical Inactivity

Table S-6: Diabetes

Population Group	Weighted Percent	Confidence Interval	Population Group	Weighted Percent	Confidence Interval
Total	44.6	42.8-46.4	Total	5.8	5.1-6.6
Gender			Gender		
Male	43.4	40.6-46.1	Male	6.2	5.1-7.4
Female	45.9	43.6-48.2	Female	5.5	4.6-6.5
	P=0.170			P=0.369	
Age Group			Age Group		
18-24	32.2	26.5-38.4	18-24	0	
25-34	39.6	35.1-44.2	25-34	1.6	0.8-3.2
35-44	42.5	38.6-46.6	35-44	3.4	2.1-5.3
45-54	44.0	40.4-47.6	45-54	5.4	3.9-7.4
55-64	50.4	46.1-54.6	55-64	12.1	9.7-15.1
65+	59.5	55.6-63.3	65+	13.3	11.0-16.1
	P<0.001			P<0.001	
Race			Race		
White non-Hispanic	44 8	42 9-46 7	White non-Hispanic	5.5	4 8-6 4
Hispanic	45.7	37 2-54 5	Hispanic	7.5	4 2-12 9
Other race	39.5	31 3-48 3	Other race	97	61-151
	P=0.517	51.5 10.5		P=0.069	0.1 10.1
Education	1 0.017		Education	1 0.009	
< High School grad	53.2	45 9-60 4	< High School grad	10.0	6 8-14 5
High School grad	48.0	44.8-51.2	High School grad	5.8	4 7-7 2
Some college	40.0	39.6-46.0	Some college	5.0 6.1	48-77
College grad	42.8	37.0-43.5	College grad	0.1 1 3	3358
College glad	40.2 D=0.001	57.0-45.5	College glad	4.5 D=0.007	5.5-5.8
Household Income	F=0.001		Household Income	F=0.007	
	50.2	12 9 56 0		0.4	66122
<313,000	50.5	45.8-50.9	<\$15,000 \$15K \$24,000	9.4	0.0-13.3
\$15K-\$24,999	51.5	40.9-50.1	\$15K-\$24,999	9.4	7.2-12.0
\$25K-\$49,999	43.5	40.4-46.6	\$25K-\$49,999	6.4 2.2	5.1-7.9
\$50K-\$74,999	42.4	38.3-46.5	\$50K-\$/4,999	2.3	1.4-3.6
\$75,000+	35.7	31.5-40.0	\$75,000+	2.7	1.6-4.4
Unknown	51.7	45.1-58.2	Unknown	6.4	4.3-9.6
	P<0.001			P<0.001	
Marital Status			Marital Status		
Married	44.4	42.2-46.6	Married	6.1	5.2-7.2
Not married	45.0	41.8-48.2	Not married	5.3	4.3-6.5
	P=0.780			P=0.259	
Population Density			Population Density		
Counties >50,000	46.9	43.6-50.3	Counties >50,000	5.6	4.3-7.1
Counties 10,000-50,000	41.7	38.8-44.6	Counties 10,000-50,000	5.2	4.2-6.4
Counties <10,000	45.3	42.0-48.7	Counties <10,000	7.2	5.7-9.0
	P=0.049			P=0.097	
Employment			Employment		
Employed	42.4	40.2-44.7	Employed	3.4	2.7-4.2
Out of work	54.8	47.7-61.6	Out of work	16.3	12.1-21.6
Homemaker	44.0	38.1-50.2	Homemaker	6.6	4.3-9.9
Student	23.9	16.2-33.9	Student	1.0	0.2-3.9
Retired	58.4	54.3-62.4	Retired	13.1	10.7-16.0
	P<0.001			P<0.001	
Insurance status			Insurance status		
Insured	45.3	43.3-47.2	Insured	6.2	5.4-7.1
Uninsured	41.8	37.1-46.6	Uninsured	4.3	3.0-6.3
	P=0.187			P=0.083	-

Excludes missing values. P<0.05 indicates a statistically significant association

Table S-7: Non-Smokers Exposed to Secondhand S	moke
(N= 1,357 non-smokers who work mostly indoors)	

N= 1,557 Holl-shlokers who	work mostry m	
Population Group	Weighted	Confidence
	Percent	Interval
Total	13.7	11.7-16.0
Gender		
Male	18.1	14.5-22.3
Female	10.3	8.2-12.8
	P<0.001	
Age Group		
18-24	18.8	11.4-29.5
25-34	14.0	9.9-19.4
35-44	12.4	9 0-16 8
45-54	13.6	10 3-17 7
55-64	11.9	8 1-17 1
65+	87	3 2-21 5
051	P=0.462	5.2-21.5
Race	1-0.402	
White non Hispania	12.6	116160
Winte, non-mispanic	13.0	0.0.20.0
Alspanic Other rece	17.1	8.8-30.8
Other race	 D 0 570	
	P=0.572	
Education		
< High School grad		
High School grad	20.8	16.0-26.6
Some college	17.4	13.6-21.9
College grad	5.2	3.6-7.4
	P<0.001	
Household Income		
<\$25,000	18.9	13.0-26.6
\$25K-\$49,999	16.1	12.6-20.3
\$50K-\$74,999	12.7	8.8-18.0
\$75,000+	8.1	5.4-12.1
	P=0.011	
Marital Status		
Married	12.9	10.7-15.4
Not married	15.8	11.8-20.9
	P=0.239	
Population Density		
Counties >50.000	10.8	8.0-14.4
Counties 10 000-50 000	16.2	12 9-20 1
Counties $<10,000$	12.5	8 7-17 5
	P=0.086	0.7 17.0
Insurance status	1 0.000	
Insured	12.8	10.8-15.2
Uninsured	20.5	14 1-28 9
Omnsured	P = 0.024	14.1-20.9
Dagion	r=0.024	
Southoost	10.2	72142
Southeast	10.2	/.5-14.5
Southwest	21.0	10.1-28.4
NorthWest	0.5	5.8-10.8
Northeast	11.7	/.3-18.3
Central	16.8	12.7-21.9
	P<0.001	

Values omitted if denominator <50. Excludes missing values. P<0.05 indicates a statistically

significant association

Total 85.1 83.8-86.4 Gender 85.1 83.8-86.4 Male 88.6 86.6-90.3 Female 81.7 79.8-83.4 P<0.001 P 18-24 73.7 67.7-78.8 25-34 81.1 77.4-84.3 35-44 82.6 79.4-85.5 45-54 87.7 85.489.7 91.5-95.3 P<0.001 Race White, non-Hispanic 84.8 83.4-86.1 Hispanic 86.6 78.3-92.1 Other race 89.0 82.0-93.4 Vhite, non-Hispanic 84.8 83.4-86.1 Hispanic 86.6 78.3-92.1 Other race 89.0 82.0-93.4 P=0.466 Education P=0.466 Education 90.4 85.5-94.5 High School grad 89.3 87.1-91.1 Some college 83.3 80.6-85.7 College grad 80.5 77.7-83.0 P<0.001 Household Income <\$15,000 85.1 79.1-89.6 \$15K-\$24,999 90.9 88.0-93.2 \$25K-\$49,999 87.0 84.8-89.0 \$50K-\$74,999 83.2 79.9-86.2	Population Group	Weighted	Confidence Interval
Gender 0.1.	Total	85 1	83 8-86 4
Male 88.6 86.6-90.3 Female 81.7 $79.8-83.4$ P<0.001	Gender	0011	0010 0011
Nume00.000.000.0Female $B1.7$ 79.8-83.4P<0.001	Male	88.6	86 6-90 3
P<0.001 P<0.001 Age Group 18-24 73.7 67.7-78.8 25-34 81.1 77.4-84.3 35-44 82.6 79.4-85.5 45-54 87.7 85.4-89.7 55-64 92.2 89.9-94.0 65+ 93.7 91.5-95.3 P<0.001	Female	81.7	79 8-83 4
Age Group18-2473.767.7-78.818-2473.767.7-78.825-3481.177.4-84.335-4482.679.4-85.545-5487.785.4-89.755-6492.289.9-94.065+93.791.5-95.3 $P<0.001$ Race $P<0.001$ Race86.678.3-92.1Other race89.082.0-93.4 $P=0.466$ Education $P=0.466$ Education89.387.1-91.1Some college83.380.6-85.7College grad80.577.7-83.0 $P<0.001$ Household Income $<\$15,000$ 85.179.1-89.6 $\$15K-\$24,999$ 90.988.0-93.2 $\$25K-\$49,999$ 87.084.8-89.0 $\$50K-\$74,999$ 83.279.9-86.2 $\$75,000+$ 77.973.9-81.5Unknown83.978.7-88.1 $P<0.001$ Married85.6Married85.684.1-87.1Not married84.381.6-86.6 $P=0.650$ P=0.650EmploymentEmployedEmployed84.282.9-87.6 $P=0.650$ 91.3-95.2 $P<0.001$ 85.482.9-87.6 $P=0.050$ 81.576.6-85.5Student68.156.8-77.6Retired93.591.3-95.2 $P<0.001$ Insurance status81.5Insurance status88.585.3-91.0 $P=0.028$ 84.683.1-86.0Uninsured84.6 <t< td=""><td>1 childre</td><td>P<0.001</td><td>//.0 05.1</td></t<>	1 childre	P<0.001	//.0 05.1
18-24 73.7 67.7-78.8 25-34 81.1 77.4-84.3 35-44 82.6 79.4-85.5 45-54 87.7 85.4-89.7 55-64 92.2 89.9-94.0 65+ 93.7 91.5-95.3 P<0.001	Age Group	1 0.001	
25-34 81.1 $77.4.84.3$ 35-44 82.6 $79.4.85.5$ 45-54 87.7 $85.4.89.7$ 55-64 92.2 $89.9.994.0$ 65+ 93.7 $91.5-95.3$ P<0.001	18-24	73 7	67 7-78 8
25.1 91.1	25-34	81.1	77 4-84 3
35.5 for 35.64 87.7 85.4×89.7 $55-64$ 92.2 $89.9-94.0$ $65+$ 93.7 $91.5-95.3$ P<0.001	35-44	82.6	79 4-85 5
35.64 92.2 $89.994.0$ $65+$ 93.7 $91.5-95.3$ $P<0.001$ Race White, non-Hispanic 84.8 $83.4-86.1$ Hispanic 86.6 $78.3-92.1$ Other race 89.0 $82.0-93.4$ P=0.466 Education $P=0.466$ Education 89.3 $87.1-91.1$ Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ P<0.001	45-54	87.7	85 4-89 7
65+ 93.7 $91.5-95.3$ $65+$ 93.7 $91.5-95.3$ $P<0.001$ Race $P<0.001$ Race 86.6 $78.3-92.1$ Other race 89.0 $82.0-93.4$ $P=0.466$ Education $P=0.466$ Education 89.3 $87.1-91.1$ Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ $P<0.001$ Household Income $<$ $<$15,000$ 85.1 $79.1-89.6$ $$15K-$24,999$ 90.9 $88.0-93.2$ $$25K-$49,999$ 87.0 $84.8-89.0$ $$50K-$74,999$ 83.2 $79.9-86.2$ $$75,000+$ 77.9 $73.9-81.5$ Unknown 83.9 $78.7-88.1$ $P<0.001$ Marital Status $81.6-86.6$ $P=0.355$ Population Density $Counties > 50,000$ 85.7 $83.0-88.1$ Counties $10,000-50,000$ 85.4 $82.9-87.6$ $P=0.650$ Employment $Employed$ 84.2 $82.5-85.7$ Ou	55-64	92.2	89 9-94 0
P<0.001 P<0.001 Race P<0.001 White, non-Hispanic 84.8 83.4-86.1 Hispanic 86.6 78.3-92.1 Other race 89.0 82.0-93.4 P=0.466 Education $P=0.466$ Education $P=0.466$ State College grad 80.5 77.7-83.0 P<0.001 Household Income $P<0.001$ Household Income $<$ <\$15,000 85.1 79.1-89.6 $< $15,000$ 85.1 79.1-89.6 $$15K-$24,999$ 90.9 88.0-93.2 $$25K-$49,999$ 87.0 84.8-89.0 $$50K-$74,999$ 83.2 79.9-86.2 $$75,000+$ 77.9 73.9-81.5 Unknown 83.9 78.7-88.1 $P<0.001$ Married 85.6 84.1-87.1 $Not married$ 84.3 81.6-86.6 P=0.355 Population Density $Counties >50,000$ 85.7 83.0-88.1 $Counties <10,000 - 50,000$ 84.3 82.1-86.3 Counties 10,000-50,000 85.4 82.9-87.6 $P=0.650$ Employed 84.2 82.5-85.7	65+	93.7	91 5-95 3
Race84.883.4-86.1Hispanic86.678.3-92.1Other race89.082.0-93.4 $P=0.466$ P=0.466Education90.485.5-94.5High School grad89.387.1-91.1Some college83.380.6-85.7College grad80.577.7-83.0 $P<0.001$ P<0.001	0.5	P<0.001	1.5 95.5
Number84.883.4-86.1Hispanic86.678.3-92.1Other race89.082.0-93.4 $P=0.466$ P=0.466Education89.387.1-91.1Some college83.380.6-85.7College grad80.577.7-83.0 $P<0.001$ P<0.001	Race	1 0.001	
Hispanic81.6 0.15 0.15 Hispanic86.6 $78.3.92.1$ Other race 89.0 $82.0-93.4$ P=0.466P=0.466Education 90.4 $85.5-94.5$ High School grad 89.3 $87.1-91.1$ Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ $P<0.001$ $P<0.001$ Household Income $<$ $<$15,000$ 85.1 $79.1-89.6$ $$15K-$24,999$ 90.9 $88.0-93.2$ $$25K-$49,999$ 87.0 $84.8-89.0$ $$50K-$74,999$ 83.2 $79.9-86.2$ $$75,000+$ 77.9 $73.9-81.5$ Unknown 83.9 $78.7-88.1$ $P<0.001$ $P<0.001$ Married 85.6 $84.1-87.1$ Not married 84.3 $81.6-86.6$ $P=0.355$ P Population Density C Counties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties 10,000 85.4 $82.9-87.6$ $P=0.650$ $P=0.650$ Employment $Employed$ 84.2 Employed 84.2 $82.5-85.7$ Out of work 94.3 $89.9-96.9$ Homemaker 81.5 $76.6-85.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P=0.028$	White non-Hispanic	84.8	83 4-86 1
Inspirie 30.0 $82.0-93.4$ Other race 89.0 $82.0-93.4$ P=0.466P=0.466Education 90.4 $85.5-94.5$ High School grad 89.3 $87.1-91.1$ Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ P<0.001	Hispanic	86.6	78 3-92 1
P=0.466 Education < High School grad	Other race	89.0	82 0-93 4
Education90.485.5-94.5High School grad89.387.1-91.1Some college83.380.6-85.7College grad 80.5 77.7-83.0P<0.001		P=0.466	02.0 95.1
Addition90.4 $85.5-94.5$ High School grad 89.3 $87.1-91.1$ Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ P<0.001	Education	1 0.100	
High School grad90.150.150.591.5High School grad89.3 $87.1-91.1$ Some college83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ P<0.001	< High School grad	90.4	85 5-94 5
Ingli School grad $0.5.3$ $0.1.1$ 91.1Some college 83.3 $80.6-85.7$ College grad 80.5 $77.7-83.0$ P<0.001	High School grad	893	87 1-91 1
bonne conege 35.3 $30.033.7$ College grad 80.5 $77.7-83.0$ P<0.001	Some college	83.3	80.6-85.7
P<0.001P<0.001	College grad	80.5	77 7-83 0
Household Income $<\$15,000$ $\$5.1$ $79.1-\$9.6$ $\$15K-\$24,999$ 90.9 $\$8.0-93.2$ $\$25K-\$49,999$ $\$7.0$ $\$4.8-\9.0 $\$50K-\$74,999$ $\$3.2$ $79.9-\$6.2$ $\$75,000+$ 77.9 $73.9-\$1.5$ Unknown $\$3.9$ $78.7-\$8.1$ $P<0.001$ $P<0.001$ Marital Status $P<0.001$ Married $\$5.6$ $\$4.1-\7.1 Not married $\$4.3$ $\$1.6-\6.6 $P=0.355$ P Population Density C Counties >50,000 $\$5.7$ $\$3.0-\8.1 Counties 10,000-50,000 $\$4.3$ $\$2.1-\6.3 Counties 10,000-50,000 $\$5.4$ $\$2.9-\7.6 $P=0.650$ $P=0.650$ $P=0.650$ Employed $\$4.2$ $\$2.5-\5.7 Out of work 94.3 $\$9.9-96.9$ Homemaker $\$1.5$ $76.6-\$5.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P<=0.028$	Conege grad	P<0.01	77.7-05.0
1000 method 85.1 $79.1-89.6$ $\$15,000$ $\$5.1$ $79.1-89.6$ $\$15K-\$24,999$ 90.9 $\$8.0-93.2$ $\$25K-\$49,999$ $\$7.0$ $\$4.8-\9.0 $\$50K-\$74,999$ $\$3.2$ $79.9-86.2$ $\$75,000+$ 77.9 $73.9-\$1.5$ Unknown $\$3.9$ $78.7-\$8.1$ $P<0.001$ $P<0.001$ Married $\$5.6$ $\$4.1-\7.1 Not married $\$4.3$ $\$1.6-\6.6 $P=0.355$ P Population Density C Counties > $50,000$ $\$5.7$ $\$3.0-\8.1 Counties > $50,000$ $\$5.7$ $\$3.0-\8.1 Counties > $50,000$ $\$5.7$ $\$3.0-\8.1 Counties 10,000- $50,000$ $\$4.3$ $\$2.1-\6.3 Counties < $10,000$ $\$5.4$ $\$2.9-\7.6 $P=0.650$ $P=0.650$ $P=0.650$ Employed $\$4.2$ $\$2.5-\5.7 Out of work 94.3 $\$9.9-96.9$ Homemaker $\$1.5$ $76.6-\$5.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P=0.028$	Household Income	1 <0.001	
	<\$15,000	85.1	79 1-89 6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<\$15K_\$2/ 000	00.0	88 0-03 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$15K-\$2 4 ,999 \$25K_\$40,000	90.9 87.0	84.8-89.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$23K-\$49,999 \$50K-\$7/ 999	87.0	70 0-86 2
17.5 17.5 15.5 Unknown 83.9 78.7 - 88.1 P<0.001	\$75 000+	77 0	73.9-81.5
Notice of KnownP<0.001	Unknown	83.0	78.7-88.1
Marital StatusMarital StatusMarried 85.6 Married 84.3 Not married 84.3 $81.6-86.6$ P=0.355Population DensityCounties >50,000 85.7 Counties 10,000-50,000 84.3 $82.1-86.3$ Counties <10,000	Ulkilowii	03.9 P<0.001	/0./-00.1
Married 85.6 $84.1-87.1$ Not married 84.3 $81.6-86.6$ P=0.355P=0.355Population Density $P=0.355$ Counties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties 10,000 85.4 $82.9-87.6$ P=0.650P=0.650Employment $P=0.650$ Employed 84.2 $82.5-85.7$ Out of work 94.3 $89.9-96.9$ Homemaker 81.5 $76.6-85.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ P<0.001	Marital Status	1 <0.001	
Not married80.0 $0.1107.1$ Not married 84.3 $81.6-86.6$ P=0.355Population DensityCounties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties <10,000	Married	85.6	84 1-87 1
Pinor bitsPinor bitsPopulation DensityCounties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties 10,000 85.4 $82.9-87.6$ P=0.650EmploymentEmployed 84.2 $82.5-85.7$ Out of work 94.3 $89.9-96.9$ Homemaker 81.5 $76.6-85.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ P<0.001Insurance statusInsured 84.6 $83.1-86.0$ Uninsured 88.5 $85.3-91.0$ P=0.028	Not married	84 3	81 6-86 6
Population Density Counties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties <10,000 85.4 $P=0.650$ Employment Employed 84.2 94.3 $89.9-96.9$ 	1 (ot married	P=0.355	01.0 00.0
Counties >50,000 85.7 $83.0-88.1$ Counties 10,000-50,000 84.3 $82.1-86.3$ Counties <10,000	Population Density	1 0.000	
Counties 10,000-50,00084.382.1-86.3Counties <10,000	Counties >50000	857	83 0-88 1
Counties <10,00085.482.9-87.6P=0.650P=0.650EmploymentEmployed84.2Powerk94.3By 9.96.9Homemaker81.5Student68.155.5Student68.193.591.3-95.2P<0.001	Counties 10 000-50 000	84 3	82.1-86.3
P=0.650EmploymentEmployed 84.2 Barborn 84.2 P=0.650Employed 84.2 Barborn $89.9-96.9$ Homemaker 81.5 Student 68.1 Student 68.1 Student 68.1 Student 68.1 P<0.001	Counties $<10,000$	85.4	82.9-87.6
Employment Employed 84.2 82.5-85.7 Out of work 94.3 89.9-96.9 Homemaker 81.5 76.6-85.5 Student 68.1 56.8-77.6 Retired 93.5 91.3-95.2 P<0.001		P=0.650	02.9 07.0
Employed 84.2 $82.5-85.7$ Out of work 94.3 $89.9-96.9$ Homemaker 81.5 $76.6-85.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P<0.001$ Insurance status 84.6 $83.1-86.0$ Uninsured 88.5 $85.3-91.0$ $P=0.028$ $P=0.028$	Employment	1 0.000	
Out of work94.389.9-96.9Homemaker 81.5 76.6-85.5Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P<0.001$ Insurace status 84.6 $83.1-86.0$ Uninsured 88.5 $85.3-91.0$ $P=0.028$ $P=0.028$	Employed	84.2	82 5-85 7
Homemaker 81.5 $76.6-85.5$ Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P<0.001$ Insurance status 84.6 $83.1-86.0$ Uninsured 88.5 $85.3-91.0$ $P=0.028$ $P=0.028$	Out of work	94.3	89 9-96 9
Student 68.1 $56.8-77.6$ Retired 93.5 $91.3-95.2$ $P<0.001$ $P<0.001$ Insurance status 84.6 $83.1-86.0$ Uninsured 88.5 $85.3-91.0$ $P=0.028$ $P=0.028$	Homemaker	81.5	76 6-85 5
Retired 93.5 91.3-95.2 $P < 0.001$ P<0.001	Student	68.1	56 8-77 6
P<0.001 Insurance status Insured 84.6 83.1-86.0 Uninsured 88.5 85.3-91.0 P=0.028	Retired	93 5	91 3-95 2
Insurance status Insured 84.6 83.1-86.0 Uninsured 88.5 85.3-91.0 P=0.028		P<0.001	1.5 95.4
Insured 84.6 83.1-86.0 Uninsured 88.5 85.3-91.0 P=0.028	Insurance status	1 -0.001	
Uninsured 88.5 85.3-91.0 P=0.028	Insured	84.6	83 1-86 0
P=0.028	Uninsured	88.5	85.3-91.0
		P=0.028	22.2 / 1.0

Table S-0. Th м CVD Rick Fact

Table S-9: Three or More	CVD Risk Facto	rs	Table S-10: Comparisons	lue <0.05 augus	-4 *
Population Group	Weighted	Confidence	Each comparison has a P va	lue < 0.05 exce	ot * Confidence
Topulation Group	Percent	Interval	Measure/comparison	Percent	Interval
Total	26.8	25 3-28 3	Fair/poor health (total)	12.3	11 3_13 5
Gender	20.8	23.3-28.3	Smoke ves	12.3	14.8 20.4
Mala	20.9	275222	Smoke yes	17.4	14.0-20.4
Famela	29.8	27.3-32.3	Sinoke no	10.7	9.0-11.9
Female	23.8 D <0.001	21.9-25.7	Overweight	13.5	12.0-15.0
	P<0.001		Not overweight	10.6	9.0-12.4
Age Group			HBP yes	24.0	21.1-27.0
18-24	8.2	5.3-12.6	HBP no	8.7	7.7-9.9
25-34	13.0	10.1-16.6	High cholesterol yes	18.8	16.4-21.4
35-44	23.0	19.7-26.7	High cholesterol no	9.8	8.7-11.1
45-54	30.1	27.0-33.5	Phys inactive	16.6	14.8-18.6
55-64	43.1	39.1-47.2	Meets recommendation	8.1	6.9-9.5
65+	43.6	39.9-47.4	Diabetes	43.5	37.0-50.1
	P<0.001		No diabetes	10.4	9.3-11.5
Race			Any CVD risks	13.8	12.6-15.2
White, non-Hispanic	26.4	24.8-28.0	No CVD risks	3.8	2.4-6.0
Hispanic	29.6	22.5-37.9	3+ CVD risks	23.5	20.9-26.3
Other race	33.1	25.5-41.7	<3 CVD risks	8.2	7.2-9.4
	P=0.201				
Education			Disability (total)	18.9	17 6-20 3
< High School grad	34 3	28 3-40 8	Smoke ves	22.1	19 3-25 2
High School grad	30.6	27.9-33.5	Smoke no	17.9	16 5-19 4
Some college	24.1	21.7-26.8	Overweight	19.8	18 1_21 7
College grad	24.1	20.5-25.9	Not overweight	17.0	15.1-21.7
College grad	25.1	20.3-23.9		20.2	13.1-19.2
Household Income	F<0.001			50.2 15 4	27.2-33.4
	22.0	77 9 29 7		13.4	14.0-10.8
<\$15,000 \$15K \$24,000	33.0	27.8-38.7	High cholesterol yes	24.8	22.1-27.0
\$15K-\$24,999	31.9	28.0-36.0	High cholesterol no	16.8	15.3-18.4
\$25K-\$49,999	25.8	23.3-28.5	Phys inactive	23.2	21.1-25.4
\$50K-\$74,999	24.7	21.4-28.4	Meets recommendation	15.2	13.6-17.0
\$75,000+	21.1	17.7-24.9	Diabetes	41.7	35.3-48.5
Unknown	28.9	23.7-34.7	No diabetes	17.5	16.2-18.8
	P<0.001		Any CVD risks	20.5	19.0-22.0
Marital Status			No CVD risks	10.1	7.6-13.2
Married	27.5	25.6-29.4	3+ CVD risks	29.0	26.1-32.0
Not married	25.5	23.1-28.1	<3 CVD risks	15.2	13.9-16.7
	P=0.233				
Population Density			Out of work (total)	6.7	5.9-7.7
Counties >50,000	26.4	23.7-29.3	Smoke yes	11.3	9.2-13.9
Counties 10,000-50,000	25.3	23.0-27.8	Smoke no	5.3	4.5-6.2
Counties <10.000	29.2	26.4-32.1	Overweight	7.1*	6.0-8.3
	P=0.129		Not overweight	5.7*	4.5-7.1
Employment			HBP ves	9.5	7.8-11.6
Employed	23 3	21 5-25 2	HBP no	59	5 0-7 0
Out of work	42.3	35 9-48 9	High cholesterol ves	8.0	64-99
Homemaker	21.8	17 4-27 1	High cholesterol no	6.0	5 1-7 1
Student	5 5	$2 4_{-1} 2 1$	Phys inactive	7.8	65.03
Retired	76 1	<i>2</i> . 4 -12.1 <i>1</i> 2.1-50.1	Meets recommendation	5.2	4263
Ketheu	40.1 D<0.001	42.1-30.1	Dishetes	10.0	4.2-0.3
Inguran as status	r~0.001		No disheter	19.0	14.2-24.9
Insurance status	27.0	262.206	A may CVD mining	0.0	5.2-0.9
Insured	27.9	20.3-29.0	Any CVD risks	1.5	0.5-8.5
Uninsured	21.9	18.4-26.0	No CVD risks	2.6	1.4-4.7
	P=0.008		3+ CVD risks	10.6	8.8-12.8
			<3 CVD risks	5.3	4.4-6.4

Table S-11: Smoking	g Cessation	- Quit 1+	days past	year
(N=754 daily smokers)	1			

Population Group	Weighted	Confidence	Populati
Total	47.1	42.9-51.2	Total
Gender	17.1	12.9 01.2	Gender
Male	45.8	39.7-52.1	Male
Female	48.3	43.0-53.7	Female
	P=0.549		
Age Group			Age Gro
18-24	60.2	47.1-72.0	18-24
25-34	50.6	41.2-60.0	25-34
35-44	46.5	38.0-55.3	35-44
45-54	42.1	34.6-50.0	45-54
55-64	47.5	37.6-57.5	55-64
65+	25.9	16.6-38.0	65+
	P=0.005		_
Race			Race
White, non-Hispanic	48.4	44.0-52.8	White,
Hispanic			Hispan
Other race			Other ra
	P=0.236		D1 /*
Education	47 4	25 (50 5	
< High School grad	4/.4	35.6-59.5	< High
High School grad	4/.1	41.0-53.2	High So
Some college	46.0	38.9-53.2	Some c
College grad	49.9 D-0.065	38.2-01.0	Conege
Household Income	P=0.903		Uousoh
	40.0	20.6.51.4	
\$15K-\$21 999	40.0	<i>1</i> 2 3-60 6	\$15K_\$
\$15K-\$24,777 \$25K_\$10,000	15 7	42.3-00.0	\$15K-\$ \$25K_\$
\$251K-\$74 999	49.7	39.1-60.4	\$20K-\$
\$75,000+	54.9	40 5-68-5	\$75.000
Unknown	39.6	26 4-54 5	Unknov
Chikhowh	P=0.431	20.4 54.5	Clikitov
Marital Status	1 0.151		Marital S
Married	45.8	40 3-51 4	Married
Not married	48.5	42.4-54.6	Not ma
1.000	P=0.528		1,00,110
Population Density			Populati
Counties >50,000	45.3	38.4-52.4	Countie
Counties 10,000-50,000	51.1	44.2-58.0	Countie
Counties <10,000	45.5	37.8-53.5	Countie
	P=0.429		
Employment			Employ
Employed	49.4	44.5-54.4	Employ
Out of work	47.4	36.1-59.1	Out of
Homemaker			Homen
Student			Student
Retired	27.2	18.7-37.9	Retired
	P=0.071		
Insurance status			Insuranc
Insured	45.9	41.1-50.7	Insured
Uninsured	49.6	41.7-57.5	Uninsu
	P=0.431		

Values omitted if denominator <50.

Excludes missing values. P<0.05 indicates a statistically significant association

Table S-12: Weight Control: Overweight trying to lose weight (N=2,216 overweight respondents)

weight (N=2,216 overw	eight responde	ents)
Population Group	Weighted	Confidence
	Percent	Interval
Total	50.8	48.5-53.2
Gender		
Male	41.5	38.4-44.8
Female	64.3	61.1-67.4
	P<0.001	
Age Group		
18-24	40.5	31 4-50 2
25-34	49.8	43 4-56 2
35-44	52.7	47 2-58 1
45-54	53.2	48 6-57 7
55-64	57.8	52 7-62 8
65+	16.6	116-516
05	P=0.00	41.0-51.0
Race	1-0.009	
White non Hispania	51.5	40.0.54.0
Winte, non-rispanic	31.3 40.6	49.0-34.0
Other rece	40.0	30.9-31.1
Other race	4/.1 D-0.100	30.4-38.2
	P=0.109	
Education	50.1	41.0.50.1
< High School grad	50.1	41.0-59.1
High School grad	48.6	44.6-52.7
Some college	53.2	48.9-57.4
College grad	51.4	46.9-55.9
	P=0.470	
Household Income		
<\$15,000	49.1	40.7-57.5
\$15K-\$24,999	48.4	42.6-54.3
\$25K-\$49,999	51.5	47.4-55.5
\$50K-\$74,999	51.7	46.2-57.1
\$75,000+	53.1	47.2-58.8
Unknown	48.4	39.9-57.1
	P=0.874	
Marital Status		
Married	52.9	50.0-55.7
Not married	46.5	42.4-50.7
	P=0.014	
Population Density		
Counties >50,000	52.4	48.0-56.7
Counties 10,000-50,000	50.8	46.9-54.6
Counties <10,000	49.4	45.1-53.6
,	P=0.636	
Employment		
Employed	51.2	48 2-54 1
Out of work	59.4	50 6-67 6
Homemaker	62.9	53 9-71 1
Student	21.5	11 5-36 7
Retired	46.7	41 5-52 0
	P<0.7	71.5-52.0
Insurance status	1 0.001	
Insured	51.3	48 8-53 0
Uningured	78 0	40.0-33.9
Uminsuleu	40.7 D-0 101	42.7-33.1
	r-0.481	

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