

Table 2: Codes and text for all included NHANES outcomes. The sample sizes and Bonferroni corrected statistical significance are reported when a) adjusted for race, sex, and smoking status and b) adjusted for these variables plus two potential mediators of the association between oral health and the various outcome measures, household income and education level.

Category	Coding	NHANES Question	Significance (unadjusted for potential mediators)	Sample Size (unadjusted for potential mediators)	Significance (adjusted for potential mediators)	Sample Size (adjusted for potential mediators)
General health	huq010	{First/Next} I have some general questions about {your/SP's} health. Would you say {your/SP's} health in general is . . .	Yes	5967	Yes	5270
General health	huq051	{During the past 12 months, how/How} many times {have you/has SP} seen a doctor or other health care professional about {your/his/her} health at a doctor's office, a clinic or some other place? Do not include times {you were/s/he was} hospitalized overnight, visits to hospital emergency rooms, home visits or telephone calls.	No	5962	No	5271
General health	huq071	{During the past 12 months, were you/{was} SP} a patient in a hospital overnight? Do not include an overnight stay in the emergency room.	No	5972	No	5275
General health	hud080	How many different times did {you/SP} stay in any hospital overnight or longer {during the past 12 months}? (Do not count total number of nights, just total number of hospital admissions for stays which lasted 1 or more nights.)	No	669	No	602
Cardiovascular	bpq020	{Have you/Has SP} ever been told by a doctor or other health professional that {you/s/he} had hypertension, also called high blood pressure?	Yes	5970	No	5273
Cardiovascular	bpq040a	Because of {your/SP's} (high blood pressure/hypertension), {have you/has s/he} ever been told to . . . take prescribed medicine?	No	2072	No	1910
Cardiovascular	mcq365c	To lower {your/SP's} risk for certain diseases, during the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: reduce the amount of sodium or salt in {your/his/her} diet?	Yes	5970	Yes	5274
Cardiovascular	bpq080	{Have you/Has SP} ever been told by a doctor or other health professional that {your/his/her} blood cholesterol level was high?	No	5934	No	5238
Cardiovascular	bpq090d	[To lower (your/his/her) blood cholesterol, (have/has) (you/SP) ever been told by a doctor or other health professional]... to take prescribed medicine?	Yes	4505	Yes	4084

Cardiovascular	did320	One part of total serum cholesterol in {your/SP's} blood is a bad cholesterol, called LDL, which builds up and clogs {your/his/her} arteries. What was {your/his/her} most recent LDL cholesterol number?	No	115	No	112
Cardiovascular	cdq001	{Have you/Has SP} ever had any pain or discomfort in {your/her/his} chest?	Yes	3746	Yes	3455
Cardiovascular	cdq002	{Do you/Does she/Does he} get it when {you/she/he} walk uphill or hurry?	Yes	1029	No	955
Cardiovascular	cdq003	{Do you/Does she/Does he} get it when {you/she/he} walk at an ordinary pace on level ground?	No	333	No	301
Cardiovascular	cdq008	Have {you/she/he} ever had a severe pain across the front of {your/her/his} chest lasting for half an hour or more?	No	1034	No	959
Cardiovascular	cdq010	{Have you/Has SP} had shortness of breath either when hurrying on the level or walking up a slight hill?	Yes	3742	Yes	3451
Cardiovascular	mcq160d	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had angina (an-gi-na), also called angina pectoris?	No	5686	No	5267
Cardiovascular	mcq160b	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had congestive heart failure?	No	5692	No	5271
Cardiovascular	mcq160c	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had coronary (kor-o-nare-ee) heart disease?	No	5678	No	5260
Cardiovascular	mcq160e	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had a heart attack (also called myocardial infarction (my-o-car-dee-al in-fark-shun))?	Yes	5695	No	5272
Cardiovascular	mcq160f	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had a stroke?	No	5699	No	5276
Cardiovascular	mcq365a	To lower {your/SP's} risk for certain diseases, during the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: control {your/his/her} weight or lose weight?	No	5976	No	5279
Cardiovascular	mcq365b	To lower {your/SP's} risk for certain diseases, during the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: increase {your/his/her} physical activity or exercise?	No	5971	No	5275
Cardiovascular	mcq365d	To lower {your/SP's} risk for certain diseases, during the past 12 months {have you/has s/he} ever been told by a doctor or health professional to: reduce the amount of fat or calories in {your/his/her} diet?	No	5971	No	5274

Cardiovascular	whd020	How much {do you/does SP} weigh without clothes or shoes?	Yes	5871	Yes	5209
Cardiovascular	whd140	Up to the present time, what is the most {you have/SP has} ever weighed?	Yes	5873	Yes	5206
Cardiovascular	mcq080	Has a doctor or other health professional ever told {you/SP} that {you were/s/he/SP was} overweight?	No	5971	Yes	5275
Cardiovascular	whq190	{Have you/Has SP} ever had weight loss surgery, also called bariatric surgery?	No	5976	No	5279
Pulmonary	mcq010	Has a doctor or other health professional ever told {you/SP} that {you have/s/he/SP has} asthma (az-ma)?	No	5971	No	5275
Pulmonary	mcq040	During the past 12 months, {have you/has SP} had an episode of asthma (az-ma) or an asthma attack?	No	517	No	456
Pulmonary	mcq050	[During the past 12 months], {have you/has SP} had to visit an emergency room or urgent care center because of asthma (az-ma)?	No	518	No	456
Pulmonary	mcq160g	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had emphysema (emph-phi-see-ma)?	No	5697	No	5275
Pulmonary	mcq160k	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had chronic bronchitis?	Yes	5689	No	5265
Pulmonary	mcq160o	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had COPD?	No	5696	No	5273
Pulmonary	slq030	In the past 12 months, how often did {you/SP} snore while {you were/s/he was} sleeping?	No	5538	No	4901
Pulmonary	slq040	In the past 12 months, how often did {you/SP} snort, gasp, or stop breathing while {you were/s/he was} asleep?	Yes	5604	Yes	4950
Cancer	mcq220	{Have you/Has SP} ever been told by a doctor or other health professional that {you/s/he} had cancer or a malignancy (ma-lig-nan-see) of any kind?	No	5699	No	5275
Cancer	hem	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a hematologic malignancy.	No	5976	No	5279
Cancer	gi	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a gastrointestinal malignancy.	No	5976	No	5279
Cancer	gu	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a genitourinary malignancy.	No	5976	No	5279

Cancer	gyn	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a gynecologic malignancy.	No	5976	No	5279
Cancer	brst	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a breast malignancy.	No	5976	No	5279
Cancer	lung	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a pulmonary malignancy.	No	5976	No	5279
Cancer	skin	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a dermatologic malignancy.	No	5976	No	5279
Cancer	hn	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a head and neck malignancy.	No	5976	No	5279
Cancer	thyr	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a thyroid malignancy.	No	5976	No	5279
Cancer	sarc	This variable was generated if the respondent endorsed a sub-question of mcq240 which described a sarcoma.	No	5976	No	5279
Endocrine	diq010	The next questions are about specific medical conditions. {Other than during pregnancy, {have you/has SP}/{Have you/Has SP}} ever been told by a doctor or health professional that {you have/{he/she/SP} has} diabetes or sugar diabetes?	Yes	5972	No	5276
Endocrine	diq160	{Have you/Has SP} ever been told by a doctor or other health professional that {you have/SP has} any of the following: prediabetes, impaired fasting glucose, impaired glucose tolerance, borderline diabetes or that {your/her/his} blood sugar is higher than normal but not high enough to be called diabetes or sugar diabetes?	No	4992	No	4381
Endocrine	diq172	{Do you/Does SP} feel {you/he/she} could be at risk for diabetes or prediabetes?	Yes	5049	Yes	4438
Endocrine	diq050	{Is SP/Are you} now taking insulin	No	5973	No	5277
Endocrine	diq070	{Is SP/Are you} now taking diabetic pills to lower {{his/her}/your} blood sugar? These are sometimes called oral agents or oral hypoglycemic agents.	No	1461	No	1345

Endocrine	diq280	What was {your/SP's} last "A one C" level?	No	400	No	372
Endocrine	diq080	Has a doctor ever told {you/SP} that diabetes has affected {your/his/her} eyes or that {you/s/he} had retinopathy (ret-in-op-ath-ee)?	No	833	No	760
Endocrine	mcq160m	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had another thyroid (thigh-roid) problem?	No	5693	No	5271
Hearing	auq060	Can {you/SP} usually hear and understand what a person says without seeing his or her face if that person whispers to {you/him/her} from across a quiet room?	Yes	2753	No	2574
Hearing	auq070	Can {you/SP} usually hear and understand what a person says without seeing his or her face if that person talks in a normal voice to {you/him/her} from across a quiet room?	No	771	No	723
Hearing	auq080	Can {you/SP} usually hear and understand what a person says without seeing his or her face if that person shouts to {you/him/her} from across a quiet room?	No	192	No	179
Hearing	auq090	Can {you/SP} usually hear and understand what a person says without seeing his or her face if that person speaks loudly into {your/his/her} better ear?	No	43	No	38
Hearing	auq100	How often {do you/does SP} find it difficult to follow a conversation if there is background noise, for example, when other people are talking, TV or radio is on, or children are playing? Would you say...	Yes	4754	Yes	4418
Hearing	auq110	How often does {your/SP's} hearing cause {you/him/her}to feel frustrated when talking to members of {your/his/her} family or to friends? Would you say...	Yes	4758	Yes	4420
Hearing	auq136	{Have you/Has SP} ever had 3 or more ear infections? Please include ear infections {you/he/she} may have had when {you were/he was/she was} a child.	No	5471	No	5067
Hearing	auq138	{Have you/Has SP} ever had a tube placed in {your/his/her} ear to drain the fluid from {your/his/her} ear?	No	5658	No	5236
Hearing	auq146	{Have you/Has SP} ever worn a hearing aid or cochlear implant?	No	5702	No	5279
Hearing	dlq010	{Are you/Is SP} deaf or {do you/does he/does she} have serious difficulty hearing?	No	5974	No	5277
Substance use	duq200	Have you ever, even once, used marijuana or hashish?	No	3420	No	3010
Substance use	duq240	Have you ever used cocaine, crack cocaine, heroin, or methamphetamine?	No	4243	No	3774

Substance use	duq250	Have you ever, even once, used cocaine, in any form?	No	671	No	628
Substance use	duq290	Have you ever, even once, used heroin?	No	672	No	629
Substance use	duq330	Have you ever, even once, used methamphetamine?	No	671	No	628
Substance use	duq370	Have you ever, even once, used a needle to inject a drug not prescribed by a doctor?	No	4247	No	3777
Substance use	duq430	Have you ever been in a drug treatment or drug rehabilitation program?	No	1753	No	1566
Substance use	alq120q	In the past 12 months, how often did {you/SP} drink any type of alcoholic beverage? PROBE: How many days per week, per month, or per year did {you/SP} drink?	No	4211	No	3851
Substance use	alq130	In the past 12 months, on those days that {you/SP} drank alcoholic beverages, on the average, how many drinks did {you/he/she} have? By a drink, I mean a 12 oz. beer, a 5 oz. glass of wine, or one and a half ounces of liquor.)	Yes	3368	Yes	3084
Vision	dlq020	{Are you/Is SP} blind or {do you/does he/does she} have serious difficulty seeing even when wearing glasses?	Yes	5974	No	5277
Physical activity	dlq050	{Do you/Does SP} have serious difficulty walking or climbing stairs?	Yes	5974	Yes	5278
Physical activity	dlq080	Because of a physical, mental, or emotional condition, {do you/does he/does she} have difficulty doing errands alone such as visiting a doctor's office or shopping?	Yes	5972	No	5277
Physical activity	pfq020	{Do you/Does SP} have an impairment or health problem that limits {your/his/her} ability to {walk, run or play} {walk or run}?	No	272	NA	NA
Physical activity	pfq049	The next set of questions is about limitations caused by any long-term physical, mental or emotional problem or illness. Please do not include temporary conditions, such as a cold [or pregnancy]. Does a physical, mental or emotional problem now keep {you/SP} from working at a job or business?	Yes	5701	Yes	5277
Physical activity	pfq051	{Are you/Is SP} limited in the kind or amount of work {you/s/he} can do because of a physical, mental or emotional problem?	Yes	5696	Yes	5274
Physical activity	pfq054	Because of a health problem, {do you/does SP} have difficulty walking without using any special equipment?	Yes	5702	No	5278
Physical activity	pfq057	{Are you/Is SP} limited in any way because of difficulty remembering or because {you/s/he} experience{s} periods of confusion?	Yes	5698	No	5275

Physical activity	pfq059	{Are you/Is SP} limited in any way in any activity because of a physical, mental or emotional problem?	No	4120	No	3823
Physical activity	pfq090	{Do you/Does SP} now have any health problem that requires {you/him/her} to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone?	Yes	5703	No	5279
Mental Health	dlq100	How often do you feel worried, nervous or anxious? Would you say daily, weekly, monthly, a few times a year, or never?	Yes	5918	Yes	5227
Mental Health	dlq040	Because of a physical, mental, or emotional condition, {do you/does he/does she} have serious difficulty concentrating, remembering, or making decisions?	Yes	5970	Yes	5274
Mental Health	dlq110	Do you take medication for these feelings?	No	5926	No	5234
Mental Health	dlq130	Thinking about the last time you felt worried, nervous or anxious, how would you describe the level of these feelings? Would you say a little, a lot, or somewhere in between?	Yes	4544	Yes	4017
Mental Health	dlq140	How often do you feel depressed? Would you say daily, weekly, monthly, a few times a year, or never?	Yes	5914	Yes	5225
Mental Health	dlq150	Do you take medication for depression?	No	5920	No	5228
Mental Health	dlq170	Thinking about the last time you felt depressed, how depressed did you feel? Would you say a little, a lot, or somewhere in between?	Yes	3053	No	2722
Mental Health	huq090	During the past 12 months, that is since {DISPLAY CURRENT MONTH} of {DISPLAY LAST YEAR}, {have you/has SP} seen or talked to a mental health professional such as a psychologist, psychiatrist, psychiatric nurse or clinical social worker about {your/his/her} health?	No	5973	No	5276
Mental Health	dpq010	Over the last 2 weeks, how often have you been bothered by the following problems: little interest or pleasure in doing things? Would you say...	Yes	5140	Yes	4595
Mental Health	dpq020	[Over the last 2 weeks, how often have you been bothered by the following problems:] feeling down, depressed, or hopeless?	Yes	5150	Yes	4603
Mental Health	dpq030	[Over the last 2 weeks, how often have you been bothered by the following problems:] trouble falling or staying asleep, or sleeping too much?	Yes	5150	Yes	4604
Mental Health	dpq040	[Over the last 2 weeks, how often have you been bothered by the following problems:] feeling tired or having little energy?	Yes	5151	Yes	4604
Mental Health	dpq050	[Over the last 2 weeks, how often have you been bothered by the following problems:] poor appetite or overeating?	Yes	5148	Yes	4601

Mental Health	dpq060	[Over the last 2 weeks, how often have you been bothered by the following problems:] feeling bad about yourself - or that you are a failure or have let yourself or your family down?	Yes	5148	Yes	4602
Mental Health	dpq070	[Over the last 2 weeks, how often have you been bothered by the following problems:] trouble concentrating on things, such as reading the newspaper or watching TV?	Yes	5148	Yes	4601
Mental Health	dpq080	[Over the last 2 weeks, how often have you been bothered by the following problems:] moving or speaking so slowly that other people could have noticed? Or the opposite - being so fidgety or restless that you have been moving around a lot more than usual?	Yes	5147	Yes	4601
Mental Health	dpq090	[Over the last 2 weeks, how often have you been bothered by the following problems:] Thoughts that you would be better off dead or of hurting yourself in some way?	Yes	5146	Yes	4600
Mental Health	dpq100	How difficult have these problems made it for you to do your work, take care of things at home, or get along with people?	Yes	3570	Yes	3199
Infectious disease	heq010	Has a doctor or other health professional ever told {you/SP} that {you have/s/he/SP has} Hepatitis B? (Hepatitis is a form of liver disease. Hepatitis B is an infection of the liver from the Hepatitis B virus (HBV).)	No	5941	No	5251
Infectious disease	heq030	Has a doctor or other health professional ever told {you/SP} that {you have/s/he/SP has} Hepatitis C? (Hepatitis is a form of liver disease. Hepatitis C is an infection of the liver from the Hepatitis C virus (HCV).)	Yes	5946	No	5255
Infectious disease	sxq260	Has a doctor or other health care professional ever told you that you had genital herpes?	No	3194	No	2885
Infectious disease	sxq265	Has a doctor or other health care professional ever told you that you had genital warts?	No	3194	No	2885
Infectious disease	sxq270	In the past 12 months, has a doctor or other health care professional told you that you had gonorrhea, sometimes called GC or clap?	No	3196	No	2886
Infectious disease	sxq272	In the past 12 months, has a doctor or other health care professional told you that you had chlamydia?	No	3192	No	2882
Genitourinary	kiq022	{Have you/Has SP} ever been told by a doctor or other health professional that {you/s/he} had weak or failing kidneys? Do not include kidney stones, bladder infections, or incontinence.	No	5695	No	5271
Genitourinary	kiq025	In the past 12 months, {have you/has SP} received dialysis (either hemodialysis or peritoneal dialysis)?	No	238	No	213

Genitourinary	kiq026	{Have you/Has SP} ever had kidney stones?	No	5690	No	5266
Genitourinary	kiq029	In the past 12 months {have you/has SP} passed a kidney stone?	No	603	No	561
Genitourinary	kiq005	Many people have leakage of urine. The next few questions ask about urine leakage. How often {do you/does SP} have urinary leakage? Would {you/s/he} say . . .	Yes	4932	No	4631
Genitourinary	kiq480	During the past 30 days, how many times per night did {you/SP} most typically get up to urinate, from the time {you/s/he} went to bed at night until the time {you/he/she} got up in the morning. Would {you/s/he} say	Yes	4932	Yes	4632
Allergic	agq030	During the past 12 months, {have you/has SP} had an episode of hay fever?	No	514	No	454
Anemia	mcq053	During the past 3 months, {have you/has SP} been on treatment for anemia (a-nee-me-a), sometimes called "tired blood" or "low blood"? [Include diet, iron pills, iron shots, transfusions as treatment.]	No	5970	No	5274
Anemia	mcq092	{Have you/Has SP} ever received a blood transfusion?	No	5897	No	5205
Arthritis	mcq160a	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had arthritis (ar-thry-tis)?	No	5693	No	5269
Gout	mcq160n	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had gout?	No	5696	No	5273
Hepatic	mcq160l	Has a doctor or other health professional ever told {you/SP} that {you/s/he} . . .had any kind of liver condition?	No	5692	No	5271
Hepatic	mcq203	Has anyone ever told {you/SP} that {you/she/he/SP} had yellow skin, yellow eyes or jaundice? Please do not include infant jaundice, which is common during the first weeks after birth.	No	5967	No	5273
Sleep	sld012	How much sleep {do you/does SP} usually get at night on weekdays or workdays?	No	5944	No	5256
Sleep	slq050	{Have you/Has SP} ever told a doctor or other health professional that {you have/s/he has} trouble sleeping?	No	5973	No	5276
Sleep	slq120	In the past month, how often did {you/SP} feel excessively or overly sleepy during the day?	Yes	5971	Yes	5276