



World Trade Center Health Registry
Wave 4 (Both Core and Asthma Surveys: 2015-2016)
Public Use Data Set Codebook

Key to column headings of codebook

1. Group: The type of question (e.g., Demographic, Eligibility, Exposure, Health, Social Support and Asthma)
2. Source/Page: The source of the question
 - a. Source: (e.g., Wave 1 survey, Wave 2 survey or Wave 3 survey or Wave 4 survey)
 - b. Page: Either the page of the Wave 1, Wave 2, Wave 3 or Wave 4 Data File User's Manual (DFUM) OR noted as "Derived"
 - c. Examples:
 - i. "Wave 1/Derived" means that this question was asked on the Wave 1 survey but we are reporting derived responses instead of the actual response (e.g., reporting the age category instead of the specific age in years)
 - ii. "Wave 2/ pg 33" means that this question was asked on the Wave 2 survey and it may be found on page 33 of the Wave 2 DFUM
 - iii. "Wave 4/ pg 5" means that this question was asked on the Wave 4 survey and it may be found on page 5 of the Wave 4 DFUM
3. Subgroup: The enrollee group targeted by the question (e.g., All, Residents, Rescue/Recovery workers, Female enrollees etc.)
4. Variable Name: SAS variable name
5. Long Question: Description of question
6. Answers: Definitions for survey responses to each particular question (e.g., 1=Male, 2=Female)
7. Note: Any question-specific additional information

Additional Notes

1. (.) represents data that is missing for any reason
2. In the Survey questions, "YOU" refers to enrollee
3. "Wave 4A" refers to Wave 4 Asthma Survey
4. All variables except for "Asthma Survey Variables" and those from the Wave1-3 surveys come from the Wave 4 Core Survey

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Demographic Variables	Wave 4 (from question 6, pg. 2)	All Enrollees	gender	What is the enrollee's gender?	M= Male, F= Female	Gender at Wave 4 interview supplemented by demographic information from enrollees.
Demographic Variables	Wave 1/B-62 (also see wave 2/derived variable census_race, pg. 43)	All Enrollees	census_new	What is the enrollee's combined race/ethnicity?	1 = 'White (non- Hispanic)' 2 = 'Black or African American (non Hispanic)' 3 = 'Hispanic or Latino (any Race)' 4 = 'Asian (includes :Native Hawaiian/Pacific Islander)', 'Multiracial' or 'Other'	Race/ethnicity is categorized according to methods used in the 2000 U.S. Census. Asian & multiracial/other are combined.
Demographic Variables	Wave 1/ Derived (also see pg. 3)	All Enrollees	age_911grp	What was the enrollee's age group on 9/11/01?	2= 0-24 years 3= 25-44 years 4= 45+ years	Supplemented by all waves and demographic information.
Demographic Variables	Wave 1/Derived	All Enrollees	NYCity	Was the enrollee a New York City resident on 9/11/01?	1= Yes, 2= No	
Demographic Variables	Wave 1/Derived (also see Wave 2/Derived variable, education, pg. 43)	All Enrollees	education	What was the highest grade or year of school completed by the enrollee at 9/11/01?	1= Never attended school 2= Grades 1 through 8 3= Grades 9 through 11 4= Grade 12 or GED 5=Some College 6=College Graduate 7=Postgraduate degree	
Demographic Variables	Wave 1/ Derived (from question D8, pg. B-53)	All Enrollees	employed_911	Was the enrollee employed on 9/11/01?	1=Yes, 2=No	Includes all enrollees older than 12 years on 9/11/01.
Demographic Variables	Wave 4 (from question 12, pg. 3)	All Enrollees	income_w4	What was your total household income in 2014 before taxes?	1 = 'Less than \$25,000' 2 = '\$25,000 to <\$50,000' 3 = '\$50,001 to \$75,000' 4 = '\$75,001 to <\$100,000' 5 = '\$100,000 to <\$150,000' 6 = 'More than \$150,000'	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Demographic Variables	Wave 4 (from question 8, pg. 2)	All Enrollees	mar_status_w4	What is your current marital status?	1=Never Married 2=Married 3=Not married, living with a partner 4=Widowed 5=Divorced or separated	Includes all enrollees aged 18 or older as of Wave 4 Survey interview.
Demographic Variables	Wave 4/ Derived (from question 10, pg. 2-3)	All Enrollees	curr_employment_w4	Is the enrollee currently employed?	1=Yes, 2=No	Currently employed is defined as currently employed full time, part time and self-employed.
Demographic Variables	Wave 4/ Derived (from question 16-17, pg. 4)	All Enrollees	BMI_cat	What is your height and current weight	1="Over 13 to <18.5 Under weight" 2="18.5 to <25 Healthy weight" 3="25 to <30 Over weight" 4="30+ Obese"	BMI is derived from height and current weight asked in the survey
Eligibility Category	Wave 1/ Derived (also see Wave 2/ Derived occ_trans, students and staff variables, pg. 42)	Present in Lower Manhattan only or Students and School Staff Only	s_s_occ_trans	Did the enrollee report being present south of Chambers Street on 9/11/01 between the time of first plane impact and noon or a student/staff member in a school south of Canal Street on 9/11/01??	1= Yes, 0= No	This includes any enrollee (residents, rescue/recovery workers and volunteers, students, school staff, office workers, commuters, visitors or others) who was present south of Chambers Street on 9/11/01 or Students who were enrolled and school staff who were employed in day care or schools pre K through 12th grade south of Chambers Street on 9/11/01.
Eligibility Category	Wave 1/ Derived (also see Wave 2/Derived resident variable, pg. 42)	Resident of Lower Manhattan	resident_e	Did the enrollee report living south of Canal Street on 9/11/01?	1= Yes, 0= No	Residents may not have been present in lower Manhattan on 9/11/01.

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Eligibility Category	Wave 1/ Derived (also see Wave 2/Derived worker variable, pg. 42)	Rescue/Recovery Workers and Volunteers Only	worker_e	Did the enrollee report working at least one shift or volunteering at a World Trade Center site between 9/11/01 and 6/30/02?	1= Yes, 0= No	These enrollees worked at one or more of the 3 WTC sites: Ground Zero, the Staten Island recovery operation facilities, or the barges. Workers and volunteers may not have been present in lower Manhattan on 9/11/01.
Exposure Variables	Wave 1/ Derived	All Enrollees	any_injury	Did the enrollee sustain at least one injury (excluding eye irritation) as a result of the World Trade Center attack?	1=Yes, 2=No	Injuries included cuts, sprains, burns, broken bones and concussions.
Exposure Variables	Wave 1/ Derived	All Enrollees	witness_count	How many horrific events did the enrollee report witnessing in person on 9/11/01?	0= 0 horrific events, 1= 1 horrific events, 2= 2 horrific events, 3= 3 horrific events, 4= 4 horrific events, 5= 5 horrific events	Horrific events were: plane(s) hitting the WTC; collapse of building(s); people running away from a cloud of smoke; people injured or killed; and people falling or jumping from the towers.
Exposure Variables	Wave 1/ Derived (also see B-63)	Enrollees Present in Lower Manhattan on 9/11/01	femaraating	If the enrollee evacuated a building south of Chambers Street on 9/11/01, how extensive was the damage to the building?	1= N & S Towers, 2= Other full collapse, 3= Partial collapse, 4=Major damage, 5=Moderate damage, 99=Not in damage or destroyed building	This includes only those who evacuated from a building. N & S Towers represent North and South Towers which are the World Trade Center 1 & 2
Exposure Variables	Wave 1/Derived (from question W7, pg. B-18)	Rescue/Recovery Workers and Volunteers	work_pile	Did the enrollee ever work on the 'Pile' at the World Trade Center site ("Ground Zero")?	1=Yes, 2=No	The 'Pile' refers to the debris left behind by the collapse of the WTC.

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Exposure Variables	Wave 2/ pg.B108 33	Residents of Lower Manhattan	m1_leave_f1	During the period of September 11 to September 18, 2001, did you leave your home for at least 24 hours because of the WTC attack?	1=Yes, 2=No 8=Don't know	Only asked of residents living in lower Manhattan on 9/11/01.
Exposure Variables	Wave 2/Derived	All Enrollees	dust_cat	What was the enrollee's dust cloud exposure?	1 = None, 2 = Some, 3 = Intense	"Intense" dust cloud exposure was reporting being in the dust or debris cloud on September 11 in Wave 1 and answering "Yes" to any of the 5 additional Wave 2 questions (could not see a couple of feet in front of me; had trouble walking or finding my way because the dust was thick; had to find shelter such as under a car or in a doorway; was covered from head to toe with dust or debris; could not hear anything). "Some" was reporting being in the dust or debris cloud on September 11 and reporting a dust cloud location.
Exposure Variables	Wave 2/Derived (from question A2, pg. 34)	Residents of Lower Manhattan	damage_condition	Did the enrollee report damage inside the home after the World Trade Center disaster?	1=Yes, 2=No	Damage is defined as one or more of the following: Broken window(s); Damage to home or furnishings; Debris from the disaster was present. Only asked of residents living in lower Manhattan on 9/11/01.

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Exposure Variables	Wave 2/Derived (from question A2, pg. 34)	Residents of Lower Manhattan	dust_condition	How much dust was found in enrollees' homes after the WTC disaster?	1= Heavy coating of dust, 2=Fine coating of dust, 3=No dust	Only asked of residents living in lower Manhattan on 9/11/01.
WAVE 4 CORE SURVEY						
Health Variables	Wave 4 (from question 30h, pg. 6)	All Enrollees	asthma_w4	Have you ever been told by a doctor or other health professional that you have asthma?	1= Yes, 2= No,	Asthma reported at Wave 4 Survey
Health Variables	Wave 4 (from question 13, pg. 3)	All Enrollees	gensatisfied_w4	In general, how satisfied are you with your life?	1= Very satisfied, 2= Satisfied, 3=Dissatisfied, 4= Very dissatisfied	
Health Variables	Wave 4 (from question 14, pg. 3)	All Enrollees	genhlth_w4	In general, would you say that your health is:	1= Excellent, 2= Very Good, 3= Good, 4=Fair, 5=Poor	
Health Variables	Wave 4 (from question 15a, pg. 3)	All Enrollees	physhlth_YorN_w4	Thinking about your physical health, which includes physical illness and injury, for how many days during the last 30 days was your physical health not good?	0-30 days	
Health Variables	Wave 4 (from question 15b, pg. 4)	All Enrollees	menthlth_YorN_w4	Thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the last 30 days was your mental health not good?	0-30 days	
Health Variables	Wave 4 (from question 15c, pg. 4)	All Enrollees	poorhlth_YorN_w4	For how many days did poor physical or mental health keep you from doing your usual activities during the last 30 days?	0-30 days	
Health Variables	Wave 4 (from question 18, pg. 4)	All Enrollees	phys_active_w4	In general, how physically active are you?	1 = Very active 2 = Somewhat active 3 = Not very active 4 = Not active at all	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 19, pg. 4)	All Enrollees	remember_7d_w4	During the last 7 days, how often have you had trouble remembering where you put things, like your keys or wallet?	1 = Never 2 = Rarely 3 = Sometimes 4 = Often 5 = Very often	
Health Variables	Wave 4 (from question 20, pg. 4)	All Enrollees	memory_12m_w4	During the last 12 months, have you experienced confusion or memory loss, other than occasionally forgetting the name of someone you recently met?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 21, pg. 4)	All Enrollees	memory_nochores_12m_w4	During the last 12 months, as a result of confusion or memory loss, how often have you given up day-to-day household activities or chores you used to do, such as cooking, cleaning, taking medications, driving or paying bills?	1 = Never 2 = Rarely 3 = Sometimes 4 = Usually 5 = Always	
Health Variables	Wave 4 (from question 22, pg. 4)	All Enrollees	memory_worse_12m_w4	During the last 12 months, has your confusion or memory loss happened more often or gotten worse?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 23a1, pg. 4)	All Enrollees	brthless_noflu_30d_YorN_w4	In the last 30 days, on how many days did you experience shortness of breath when you did not have a cold, the flu, or seasonal allergies?	1 = 1-30 days 2 = 0 days	
Health Variables	Wave 4 (from question 23a2, pg. 4)	All Enrollees	wheeze_noflu_30d_YorN_w4	In the last 30 days, on how many days did you experience wheezing when you did not have a cold, the flu, or seasonal allergies?	1 = 1-30 days 2 = 0 days	
Health Variables	Wave 4 (from question 23a3, pg. 4)	All Enrollees	cough_noflu_30d_YorN_w4	In the last 30 days, on how many days did you experience persistent cough when you did not have a cold, the flu, or seasonal allergies?	1 = 1-30 days 2 = 0 days	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 23b, pg. 5)	All Enrollees	lrs_ge1_noflu_30d_YorN_w4	In the last 30 days, how many days have you experienced at least one of the following symptoms: shortness of breath, wheezing, or persistent cough?	1 = 1-30 days 2 = 0 days	
Health Variables	Wave 4 (from question 23c, pg. 5)	All Enrollees	cough_awake_30d_w4	In the last 30 days, have you been awakened during the night by a cough, wheezing, or shortness of breath when you did not have a cold, the flu, or seasonal allergies?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 24, pg. 5)	All Enrollees	inhaler_30d_w4	In the last 30 days, have you used an inhaler prescribed by a doctor for any breathing problem?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 25, pg. 5)	All Enrollees	cough_phlegm_ever_w4	Do you ever cough up any "stuff," such as mucus or phlegm?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 26, pg. 5)	All Enrollees	htburn_12m_freq_w4	During the last 12 months, how often have you experienced heartburn or acid reflux?	1= Never; 2=Less than once a month; 3= About once a month; 4= About once a week; 5= At least twice a week	
Health Variables	Wave 4 (from question 27, pg. 5)	All Enrollees	htburn_12m_md_w4	In the last 12 months, have you seen a doctor or other health professional for heartburn or acid reflux?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 28, pg. 5)	All Enrollees	htburn_30d_w4	In the last 30 days, have you experienced heartburn or acid reflux?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 29, pg. 5)	All Enrollees	htburn_30d_meds_w4	In the last 30 days, have you taken any medications for heartburn or acid reflux?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30a, pg. 6)	All Enrollees	hypertension_w4	List of master folders on the M drive?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30b, pg. 6)	All Enrollees	cholesterol_w4	Address_Geocoding?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30c, pg. 6)	All Enrollees	angina_w4	Archive?	1= Yes, 2= No	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 30d, pg. 6)	All Enrollees	heart_attack_w4	Data Exchange?	1= Yes, 2= No	A heart attack may be called myocardial infraction.
Health Variables	Wave 4 (from question 30e, pg. 6)	All Enrollees	chd_w4	Data Sets?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30f, pg. 6)	All Enrollees	stroke_w4	Have you ever been told by a doctor or other health professional that you have stroke?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30g, pg. 6)	All Enrollees	diabetes_w4	Have you ever been told by a doctor or other health professional that you have diabetes, or sugar diabetes?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30i, pg. 6)	All Enrollees	chbronch_w4	Have you ever been told by a doctor or other health professional that you have chronic bronchitis?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30j, pg. 6)	All Enrollees	emphys_copd_w4	Have you ever been told by a doctor or other health professional that you have emphysema, or COPD?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30k, pg. 6)	All Enrollees	rads_w4	Have you ever been told by a doctor or other health professional that you have reactive airways dysfunction syndrome, or RADS?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30l, pg. 6)	All Enrollees	sarcoidosis_w4	Have you ever been told by a doctor or other health professional that you have sarcoidosis?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30m, pg. 7)	All Enrollees	pulmonary_fibrosis_w4	Have you ever been told by a doctor or other health professional that you have pulmonary fibrosis?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30n, pg. 7)	All Enrollees	asbestosis_w4	Have you ever been told by a doctor or other health professional that you have asbestosis?	1= Yes, 2= No	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 30o, pg. 7)	All Enrollees	sleep_apnea_w4	Have you ever been told by a doctor or other health professional that you have sleep apnea, or obstructive sleep apnea?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30p, pg. 7)	All Enrollees	gerd_w4	Have you ever been told by a doctor or other health professional that you have gastroesophageal reflux disease, or GERD?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30q, pg. 7)	All Enrollees	thyroid_w4	Have you ever been told by a doctor or other health professional that you have thyroid disease?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30r, pg. 7)	All Enrollees	periph_neurop_w4	Have you ever been told by a doctor or other health professional that you had peripheral neuropathy?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30s, pg. 7)	All Enrollees	rheum_arth_w4	Have you ever been told by a doctor or other health professional that you have rheumatoid arthritis?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30t, pg. 7)	All Enrollees	other_autoimm_w4	Have you ever been told by a doctor or other health professional that you had other auto-immune disorders (e.g., lupus, MS, ALS, scleroderma, or polymyositis)?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 30u, pg. 7)	All Enrollees	other_dis1_w4	Have you ever been told by a doctor or other health professional that you had any other disease (excluding cancer)?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 31, pg. 9)	Male Enrollees	psa_test_12m_w4	(Answer only if you are male:) In the last 12 months, did you have a PSA test? A PSA test is a blood test to detect prostate cancer. It is also called a prostate-specific antigen test.	1= Yes, 2= No	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 32, pg. 9)	Male Enrollees	psa_test_reason_w4	What was the main reason you had your most recent PSA test?	1= Part of a routine exam 2= Because of a problem 3= Other reason	
Health Variables	Wave 4 (from question 33, pg. 9)	Female Enrollees	mammogram_12m_w4	(Answer only if you are female:) In the last 12 months, did you have a mammogram?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 34, pg. 9)	Female Enrollees	mammogram_reason_w4	What was the main reason you had your most recent mammogram?	1= Part of a routine exam 2= Because of a problem 3= Other reason	
Health Variables	Wave 4 (from question 35, pg. 9)	All Enrollees	colonoscopy_12m_w4	In the last 12 months, did you have a colonoscopy or sigmoidoscopy?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 36, pg. 10)	All Enrollees	colonoscopy_reason_w4	What was the main reason you had your most recent colonoscopy or sigmoidoscopy?	1= Part of a routine exam 2= Because of a problem 3= Other reason	
Health Variables	Wave 4 (from question 37, pg. 10)	All Enrollees	catscan_chest_12m_w4	In the last 12 months, did you have a CAT scan or CT scan of your chest or lungs?	1= Yes, 2= No	
Health Variables	Wave 4 (from question 38, pg. 10)	All Enrollees	catscan_chest_reason_w4	What was the main reason you had your most recent CAT scan or CT scan of your chest or lungs?	1= Part of a routine exam 2= Because of a problem 3= Other reason	
Health Variables	Wave 4 (from question 45, pg. 13)	All Enrollees	healthcare_noinsurer_12m_w4	During the last 12 months, were you without health insurance at any point?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 46, pg. 13)	All Enrollees	healthcare_insurance_w4	Do you currently have any health insurance, including private health insurance, HMO, managed care, or a government plan such as Medicare or Medicaid?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 47, pg. 13)	All Enrollees	healthcare_provider_w4	Do you have at least one person or location you think of as your personal doctor or health care provider?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 48, pg. 13)	All Enrollees	checkup_w4	When did you last visit a doctor for a routine check-up that was not for a specific injury, illness, or condition?	1= Within the last 12 months; 2= Over a year ago but less than 2 years ago; 3= Over 2 years ago but less than 5 years ago; 4= 5 or more years ago; 5= Never in my life	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Health Variables	Wave 4 (from question 49, pg. 13)	All Enrollees	care_need_phys_12m_w4	During the last 12 months, was there a time when you needed care from a medical professional for physical health problems, other than a routine physical exam?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 50, pg. 14)	All Enrollees	care_received_phys_12m_w4	Did you receive the physical health care you needed?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 51, pg. 14)	All Enrollees	care_need_mh_12m_w4	During the last 12 months, was there a time when you needed mental health care or counseling?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 52, pg. 14)	All Enrollees	care_received_mh_12m_w4	Did you receive the mental health care or counseling you needed?	1= Yes, 2=No	
Health Variables	Wave 4 (from question 53, pg. 14)	All Enrollees	wtcprog_services_w4	Have you ever received services from any of the World Trade Center Health Program clinics listed below? (See list in survey instrument.)	1= Yes, 2=No, 3=Don't know	
Health Variables	Wave 4 (from question 74a, pg. 25)	All Enrollees	SELFEFF_ACCOMPLISH_W4	It is easy for me to stick to my aims and accomplish my goals.	1=Not at all true 2=Hardly true 3=Moderately true 4=Exactly true	
Health Variables	Wave 4 (from question 74b, pg. 25)	All Enrollees	SELFEFF_EFFICIENT_W4	I am confident that I could deal efficiently with unexpected events.	1=Not at all true 2=Hardly true 3=Moderately true 4=Exactly true	
Health Variables	Wave 4 (from question 74c, pg. 25)	All Enrollees	SELFEFF_RESOURCEFUL_W4	Thanks to my resourcefulness, I know how to handle unforeseen situations.	1=Not at all true 2=Hardly true 3=Moderately true 4=Exactly true	
Health Variables	Wave 4 (from question 74d, pg. 25)	All Enrollees	SELFEFF_COPING_W4	I can remain calm when facing difficulties because I can rely on my coping abilities.	1=Not at all true 2=Hardly true 3=Moderately true 4=Exactly true	
Health Variables	Wave 4 (from question 74e, pg. 26)	All Enrollees	selfeff_handle_w4	No matter what comes my way, I am usually able to handle it.	1=Not at all true 2=Hardly true 3=Moderately true 4=Exactly true	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Social Support	Wave 4 (from question 75a, pg. 26)	All Enrollees	socsupp_doctor_w4	How often is someone available to take you to the doctor if you need to go?	1= None of the time;2= A little of the time; 3= Some of the time; 4= Most of the time; 5= All of the time	
Social Support	Wave 4 (from question 75b, pg. 26)	All Enrollees	socsupp_goodtime_w4	How often is someone available to have a good time with?	1= None of the time; 2= A little of the time; 3= Some of the time; 4= Most of the time; 5= All of the time	
Social Support	Wave 4 (from question 75c, pg. 26)	All Enrollees	socsupp_hug_w4	How often is someone available to hug you?	1= None of the time; 2= A little of the time; 3= Some of the time; 4= Most of the time; 5= All of the time	
Social Support	Wave 4 (from question 75d, pg. 26)	All Enrollees	socsupp_meals_w4	How often is someone available to prepare your meals if you are unable to do it yourself?	1= None of the time; 2= A little of the time; 3= Some of the time; 4= Most of the time; 5= All of the time	
Social Support	Wave 4 (from question 75e, pg. 26)	All Enrollees	socsupp_probs_w4	How often is someone available to understand your problems?	1= None of the time; 2= A little of the time; 3= Some of the time; 4= Most of the time; 5= All of the time	
Social Support	Wave 4 (from question 76, pg. 26)	All Enrollees	socsupp_communicate_w4	In the last 30 days, have you visited, talked, or emailed with friends at least twice?	1= Yes, 2=No	
Social Support	Wave 4 (from question 77, pg. 26)	All Enrollees	socsupp_religious_w4	In the last 30 days, have you attended a religious service at least twice?	1= Yes, 2=No	
Social Support	Wave 4 (from question 78, pg. 26)	All Enrollees	socsupp_club_w4	In the last 30 days, have you been actively involved in a volunteer organization or club?	1= Yes, 2=No	
WAVE 4 ASTHMA SURVEY						
Asthma Variables	Wave 4A (from question 4, pg. 2)	All Asthma Survey Enrollees	as_mddx_ever_w4	Have you ever been told by a doctor or other health professional that you had asthma?	1= Yes, 2=No	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Asthma Variables	Wave 4A (from question 6, pg. 2)	All Asthma Survey Enrollees	as_pft_ever_w4	For pulmonary function tests (or spirometry), you breathe into a mouthpiece connected to a machine that measures how quickly much air you breathe out, and how quickly. Have you ever had pulmonary function testing (or spirometry)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 7, pg. 2)	All Asthma Survey Enrollees	as_act_impair_w4	In the past 4 weeks, how much of the time did your asthma keep you from getting as much done at work, school, or at home?	1= All of the time 2 =Most of the time 3= Some of the time 4= A little of the time 5= None of the time	
Asthma Variables	Wave 4A (from question 8, pg. 2)	All Asthma Survey Enrollees	as_act_breathless_w4	During the past 4 weeks, how often have you had shortness of breath?	1=More than once a day 2=Once a day 3=3 to 6 times a week 4=Once or twice a week 5=Not at all	
Asthma Variables	Wave 4A (from question 9, pg. 2)	All Asthma Survey Enrollees	as_act_awaken_w4	During the past 4 weeks, how often did your asthma symptoms (wheezing, coughing, shortness of breath, chest tightness or pain) wake you up at night or earlier than usual in the morning?	1=4 or more nights a week 2=2 or 3 nights a week 3=Once a week 4=Once or twice 5=Not at all	
Asthma Variables	Wave 4A (from question 10, pg. 2)	All Asthma Survey Enrollees	as_act_meds_w4	During the past 4 weeks, how often have you used your rescue inhaler or nebulizer medication (such as Albuterol, Ventolin, Proventil, or Maxair)?	1=3 or more times per day 2=1 or 2 times per day 3=2 or 3 times per week 4=Once a week or less 5=Not at all	
Asthma Variables	Wave 4A (from question 11, pg. 2)	All Asthma Survey Enrollees	as_act_control_w4	How would you rate your asthma control during the past 4 weeks?	1=Not controlled at all 2=Poorly controlled 3=Somewhat controlled 4=Well controlled 5=Completely controlled	
Asthma Variables	Wave 4A (from question 12, pg. 2)	All Asthma Survey Enrollees	as_rx_inh_ever_w4	Have you ever used a prescription inhaler?	1= Yes, 2=No, 3=Don't know	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Asthma Variables	Wave 4A (from question 13, pg. 3)	All Asthma Survey Enrollees	as_inh_show_w4	Did a doctor or other health professional ever show you how to use the inhaler?	1= Yes, 2=No, 3=Don't know	
Asthma Variables	Wave 4A (from question 14, pg. 3)	All Asthma Survey Enrollees	as_inh_watch_w4	Did a doctor or other health professional ever watch you use the inhaler?	1= Yes, 2=No, 3=Don't know	
Asthma Variables	Wave 4A (from question 15, pg. 3)	All Asthma Survey Enrollees	AS_MEDS_L4WKS_GE1_W4	During the past 4 weeks, according to instructions of a doctor or other health professional, were you supposed to take the at least one medication for long-term asthma control?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 16, pg. 4)	All Asthma Survey Enrollees	as_mmas_forget_w4	Do you sometimes forget to take your long-term asthma control medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 17, pg. 4)	All Asthma Survey Enrollees	as_mmas_notake_12wks_w4	Over the past two weeks, were there any days when you did not take your long-term asthma control medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 18, pg. 4)	All Asthma Survey Enrollees	as_mmas_notake_worse_w4	Have you ever cut back or stopped taking your long-term asthma control medication(s) without telling your doctor because you felt worse when you took it?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 19, pg. 5)	All Asthma Survey Enrollees	as_mmas_forget_1vhome_w4	When you travel or leave home, do you sometimes forget to bring along your long-term asthma control medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 20, pg. 5)	All Asthma Survey Enrollees	as_mmas_yesterday_w4	Did you take all your long-term asthma control medication(s) yesterday?	1= Yes, 2=No	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Asthma Variables	Wave 4A (from question 21, pg. 5)	All Asthma Survey Enrollees	as_mmas_notake_control_w4	When you feel like your asthma is under control, do you sometimes stop taking your long-term asthma control medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 22, pg. 5)	All Asthma Survey Enrollees	as_mmas_hassle_w4	Taking medication every day is a real inconvenience for some people. Do you ever feel hassled about sticking to your long-term asthma medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 23, pg. 5)	All Asthma Survey Enrollees	as_mmas_trbl_remember_w4	How often do you have difficulty remembering to take all your long-term asthma control medication(s)?	1=Never/rarely 2=Once in a while 3=Sometimes 4=Usually 5=All the time	
Asthma Variables	Wave 4A (from question 26, pg. 5)	All Asthma Survey Enrollees	as_meds_getall_l4wks_w4	In the past 4 weeks, were you able to get all of your asthma medication(s)?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_cost_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: It cost too much	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_pharm_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: The pharmacy did not carry it.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_worthelp_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: I didn't think medication could help.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_notcover_insur_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: My health insurance did not cover it.	0=Not Selected,1=Selected	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_notcover_wtcp_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: The WTC Health Program did not cover it.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_noinsur_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: I did not have health insurance.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_affordmd_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: I could not afford a doctor's visit.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_selfmanage_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: I preferred to manage my asthma myself.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_timepharm_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: I did not have time to go to a pharmacy.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 27, pg. 5)	All Asthma Survey Enrollees	as_nomeds_other_w4	In the past 4 weeks, did the following problem prevent you from getting your asthma medication(s)?: Other, please specify.	0=Not Selected,1=Selected	
Asthma Variables	Wave 4A (from question 28, pg. 6)	All Asthma Survey Enrollees	as_attack_12m_w4	During the past 12 months, have you had an asthma attack?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 29, pg. 6)	All Asthma Survey Enrollees	as_ervisits_12m_w4	During the past 12 months, how many times did you visit an emergency room or urgent care center because of asthma?	## times	

Group	Source/Page	Subgroup	Variable Name	Long Question	Answers	Note
Asthma Variables	Wave 4A (from question 30, pg. 6)	All Asthma Survey Enrollees	as_hosp_l12m_w4	During the past 12 months, were you ever hospitalized overnight for asthma?	1= Yes, 2=No	
Asthma Variables	Wave 4A (from question 31, pg. 6)	All Asthma Survey Enrollees	as_mdvisits_l12m_w4	During the past 12 months, besides emergency room or urgent care center visits, how many visits did you make to a doctor, nurse, or other health professional for worsening asthma symptoms?	## visits	
Asthma Variables	Wave 4A (from question 32, pg. 6)	All Asthma Survey Enrollees	as_actionplan_eve r_w4	An asthma action plan is a form with instructions about when to change the amount or type of medicine, when to call the doctor for advice, when to go to the emergency room. Has a doctor/other health professional ever given you an asthma action plan?	1= Yes, 2=No, 3=Don't know	
Asthma Variables	Wave 4A (from question 33, pg. 6)	All Asthma Survey Enrollees	as_actionplan_dec sion_w4	When your asthma gets worse, how much of the time do you use your action plan to help you decide what to do?	1=All of the time 2=Most of the time 3=Some of the time 4=Occasionally 5=Never	
Asthma Variables	Wave 4A (from question 34, pg. 7)	All Asthma Survey Enrollees	as_control_conf_w 4	How confident are you in your ability to control your asthma?	1=Not confident at all 2=A little confident 3=Somewhat confident 4=Confident 5=Very confident	