



World Trade Center Health Registry
Wave 1 Survey (2003-2004)
Public Use Data Set Codebook
Revised 9/12/2013

Key to Column headings of Codebook

1. Group: The type of question (e.g., Demographic, Eligibility category, Exposure, and Health)
2. Page: The source of the question.
 - a. Page: Pages of the Wave 1 Data File User's Manual (DFUM).
 - b. Examples:
 - i. "B-19" means that this question was asked on the Wave 1 survey and it may be found on page B-19 of the Wave 1 DFUM
 - ii. "Derived , B-60 means that this variable was created from 1 or more questions asked on the Wave 1 survey and it may be found on page B_60 of the Wave 1 DFUM
3. Eligibility Category: The enrollee group targeted by the question (e.g., All, Residents, Rescue/Recovery workers, etc.)
4. Variable Name: SAS variable name
5. 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. Note: (-9) represents valid missing data from the wave 1 dataset
2. Note: (-3) represents invalid missing data from wave 1 dataset
3. Note: (-2) represents enrollees that refused to answer
4. Note: (DK) represents "don't know" data from wave 1 dataset
5. Note: (Valid Missing) represents data that enrollees should have not answered
6. Note: (Invalid Missing) represents data that enrollees should have answered

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Demographic Variables	B-2	All Enrollees	gender	What is the enrollee's sex?	1= Male 2= Female	
Demographic Variables	B-62	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 4=Asian 5=Other	Race/ethnicity is categorized according to methods used in the 2000 U.S. Census.
Demographic Variables	B-60	All Enrollees	age_911grp	What was the enrollee's age on 9/11/01?	<18, 18-24 years, 25-44 years, 45-64 years, 65+ years	
Demographic Variables	B-52	All Enrollees	mar_new	What was the enrollee's marital status at the time of interview?	1= Married 2=Not Married, living with a partner 3= Widowed 4= Divorced/Separated 5= Never Married	Includes all enrollees aged 15 or older at the time of interview.

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Demographic Variables	B-52	All Enrollees	income_new	What was the enrollee's total household income in 2002 before taxes?	1= Under \$25,000 2=\$25,000 to <\$50,000 3=\$50,000 to <\$75,000 4= \$75,000 to <\$150,000 5=\$150,000 or more	
Demographic Variables	B-53	All Enrollees	education	What was the highest grade or year of school completed by the enrollee at the time of interview?	1= Never attended school or only attended kindergarten, 2= Grades 1 through 8, 3= Grades 9 through 11, 4= Grade 12 or GED (High School Graduate), 5=Some College, 6=College Graduate, 7=Postgraduate degree	
Demographic Variables	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.

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Demographic Variables	Derived	All Enrollees	boroughcode	Was the enrollee a New York City resident on 9/11/01?	Yes/No	
Exposure Variables	Derived	All Enrollees	smkstatus_b	What was the smoking status of the enrollee at the time of interview?	1= Never smoked 2= Former smoker 3= Current smoker	
Exposure Variables	Derived	All Enrollees	any_injury	Did the enrollee sustain at least one injury as a result of the World Trade Center attack?	Yes/No	Injuries included cuts, sprains, burns, broken bones and concussions but excluded eye injuries.
Health Variables	B-67	All Enrollees	cough_nw	Did the enrollee report new onset or worsening of a persistent cough since 9/11/01?	Yes/ No	

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Health Variables	B-67	All Enrollees	depression_nw	Did the enrollee report new onset or worsening depression, anxiety, or other emotional problems since 9/11/01?	Yes/ No	
Health Variables	B-67	All Enrollees	eye_nw	Did the enrollee report new onset or worsening of eye irritation since 9/11/01?	Yes/ No	
Health Variables	B-67	All Enrollees	headache_nw	Did the enrollee report new onset or worsening frequent, severe headaches since 9/11/01?	Yes/ No	
Health Variables	B-68	All Enrollees	hearing_nw	Did the enrollee report new onset or worsening of hearing problems or loss since 9/11/01?	Yes/ No	

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Health Variables	B-68	All Enrollees	htburn_nw	Did the enrollee report new onset or worsening of heartburn since 9/11/01?	Yes/ No	Conditions include heartburn, indigestion or reflux.
Health Variables	B-68	All Enrollees	breath_nw	Did the enrollee report new onset or worsening of shortness of breath since 9/11/01?	Yes/ No	
Health Variables	B-68	All Enrollees	skin_nw	Did the enrollee report new onset or worsening of skin rash/irritation since 9/11/01?	Yes/ No	
Health Variables	B-69	All Enrollees	sinus_nw	Did the enrollee report new onset or worsening of sinus problems since 9/11/01?	Yes/ No	Conditions include sinus problems, nose irritation or post-nasal irritation.

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Health Variables	B-69	All Enrollees	throat_nw	Did the enrollee report new onset or worsening of throat irritation since 9/11/01?	Yes/ No	
Health Variables	B-69	All Enrollees	wheeze_nw	Did the enrollee report a new onset or worsening of wheezing since 9/11/01?	Yes/ No	
Health Variables	B-72	All Enrollees	heart_disease_new	Did the enrollee report coronary heart disease diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	
Health Variables	B-72	All Enrollees	hypertension_new	Did the enrollee report new onset of hypertension diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Health Variables	B-73	All Enrollees	heart_attack_new	Did the enrollee report a heart attack diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	A heart attack may be called myocardial infarction.
Health Variables	B-73	All Enrollees	other_heart_new	Did the enrollee report other heart problems diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	Any heart problem other than coronary heart disease, hypertension, or heart attack.
Health Variables	B-73	All Enrollees	stroke_new	Did the enrollee report a stroke diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	
Health Variables	B-74	All Enrollees	diabetes_new	Did the enrollee report new onset of diabetes diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Health Variables	B-74	All Enrollees	cancer_new	Did the enrollee report new onset of cancer or malignancy of any kind diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	
Health Variables	B-73	All Enrollees	emphysema_new	Did the enrollee report new onset of emphysema diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	
Health Variables	B-72	All Enrollees	asthma_new	Did the enrollee report new onset of asthma diagnosed by a doctor or a health care professional since 9/11/01?	Yes/ No	
Health Variables	Derived	All Enrollees	pdi	At the time of interview, did the enrollee indicate that he/she had symptoms of current, probable psychological distress?	Yes/ No	Enrollees who answered questions about their emotional state and scored at least 13 out of a possible 24 points on the Kessler 6 scale, a standard mental health

Group	Page	Eligibility	Variable Name	Question	Answers	Note
						assessment tool.
Health Variables	Derived	All Enrollees	prob_ptsd44	At the time of interview, did the enrollee indicate that he/she had symptoms of current, probable PTSD?	Yes/ No	Enrollees who answered questions about their emotional state and scored at least 44 out of a possible 85 points on the PTSD screening scale (PCL-CV), a standard mental health assessment tool.
Exposure Variables	B-14	All Enrollees	dust	Did the enrollee indicate that he/she was outdoors on 9/11/01 within the dust or debris cloud resulting from the collapse of the World Trade Center?	1=Yes, 2=No	Enrollees may have had different interpretations of the dust or debris cloud.

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Exposure Variables	Derived	All Enrollees	count_events	How many horrific events did the enrollee report witnessing in person on 9/11/01?	0= 0 horrific events, 1= 1 horrific event, 2= 2 horrific events, 3= 3 horrific events, 4= 4 horrific events, 5=5 horrific events	Horrific events were defined as: 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	B-30	Resident of Lower Manhattan	evacres_911	Did the enrollee report evacuating his/her home as a result of the World Trade Center collapse?	1=Yes, 2=No	
Exposure Variables	Derived, B-30	Resident of Lower Manhattan	return_home	If the enrollee evacuated his/her home south of Canal Street following the collapse of the World Trade Center, did they return to live?	1=Yes, 2=No	This includes only those who evacuated from a residence.

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Exposure Variables	Derived, B-31	Resident of Lower Manhattan	return_live_cat	How many days was it before the enrollee returned to his/her home south of Canal Street?	1= Less than 7 days, 2=Less than 14 days, 3= Less than 1 month, 4= Less than 3 months, 5= More than 3 months, 6= Never returned	This includes only those who evacuated from a residence.
Exposure Variables	B-12	All Enrollees	evac	Did the enrollee report evacuating from a building or area south of Chambers Street on 9/11/01 as a result of the World Trade Center collapse?	1=Yes, 2=No	This includes those present who evacuated from a building.
Exposure Variables	B-13	All Enrollees	retchamb_todec	Did the enrollee return to work between 9/12/01 and 12/31/01?	1=Yes, 2=No	This includes enrollees 12 years or older on 9/11/01 who usually worked south of Chambers Street.
Exposure Variables	B-12	Occupant Transit	workchamb_911	If the enrollee reported being present south of Chambers Street on 9/11/01 between the time of first plane impact and noon, did the enrollee usually work south of	1=Yes, 2=No	This includes enrollees 12 years or older on 9/11/01.

Group	Page	Eligibility	Variable Name	Question	Answers	Note
				Chambers Street?		
Exposure Variables	B-63	All Enrollees	femarating	If the enrollee evacuated a building south of Chambers Street on 9/11/01, how extensive was the damage to the building?	N & S Towers, Other full collapse, Partial collapse, Major damage, Moderate damage, Not in damaged 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	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 smoldering debris left behind by the collapse of the WTC.
Exposure Variables	B-19	Rescue/Recovery Workers and Volunteers	resp_pile911	If the enrollee reported working on the 'Pile' on 9/11/01, how often did he/she wear a mask?	1= All of the time 2= Most of the time 3= Sometimes, 4= Not at all	The 'Pile' refers to the smoldering debris left behind by the collapse of the WTC.

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Exposure Variables	B-20	Rescue/Recovery Workers and Volunteers	resp_pile912	If the enrollee reported working on the 'Pile' on 9/12/01, how often did he/she wear a mask?	1= All of the time 2= Most of the time 3= Sometimes, 4= Not at all	The 'Pile' refers to the smoldering debris left behind by the collapse of the WTC.
Exposure Variables	B-22	Rescue/Recovery Workers and Volunteers	resp_sep13_17	If the enrollee reported working on the 'Pile' between 09/13/01- 09/17/01, how often did he/she wear a mask?	1= All of the time 2= Most of the time 3= Sometimes, 4= Not at all	The 'Pile' refers to the smoldering debris left behind by the collapse of the WTC.
Exposure Variables	B-24	Rescue/Recovery Workers and Volunteers	resp_sep18_dec31	If the enrollee reported working on the 'Pile' between 09/18/01- 12/31/01, how often did he/she wear a mask?	1= All of the time 2= Most of the time 3= Sometimes, 4= Not at all	The 'Pile' refers to the smoldering debris left behind by the collapse of the WTC.
Exposure Variables	B-26	Rescue/Recovery Workers and Volunteers	resp_jan1	If the enrollee reported working on the 'Pile' after 01/01/02, how often did he/she wear a mask?	1= All of the time 2= Most of the time 3= Sometimes, 4= Not at all	The 'Pile' refers to the smoldering debris left behind by the collapse of the WTC.

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Eligibility Category the	B-58	Resident of Lower Manhattan	resident_e	Did the enrollee report living south of Canal Street on 9/11/01?	Yes/No	Residents may not have been present in Lower Manhattan on 9/11/01.
Eligibility Category	B-58	Rescue/Recovery Workers and Volunteers	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?	Yes/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.
Eligibility Category	B-58	Occupant Transit	occ_trans_e	Did the enrollee report being present south of Chambers Street on 9/11/01 between the time of first plane impact and noon?	Yes/No	This includes residents, rescue/recovery workers and volunteers, students, school staff, office workers, commuters, visitors and others present south of Chambers Street on 9/11/01

Group	Page	Eligibility	Variable Name	Question	Answers	Note
Eligibility Category	Derived, B-58	Students and Staff	s_s	Did the enrollee report being a student or staff member in a school south of Canal Street on 9/11/01?	1=Yes, 2=No	Students who were enrolled and school staff who were employed in day care or schools pre-K through 12th grade. Students and staff may not have been present in Lower Manhattan on 9/11/01.
Eligibility Category	Derived	All Enrollees	all_enrl	People who enrolled in the World Trade Center Health Registry.	1=Yes, 2=No	