

## 2007 LSOA II LINKED MORTALITY PUBLIC-USE FILE

### Detailed Notes for Selected Variables

#### ***PUBLIC\_ID***—LSOA II Public ID Construction

<u>Item</u>	<u>Mortality Location</u>	<u>Public-use Location</u>	<u>Length</u>	<u>Description</u>
Year (2 digit)	1-2	3-4	2	Year of interview
Quarter	3	5	1	Calendar quarter of interview
PSU	4-6	6-8	3	Random recode of PSU #
Week	7-8	9-10	2	Week of interview within quarter
Segment	9-10	11-12	2	Segment number
Household	11-12	13-14	2	Household number within quarter
Person number	13-14	15-16	2	Person number within household

Note: Concatenate all variables to get the unique person identifier. All variables are zero filled.

The **PUBLIC\_ID** on the LSOA II Linked Mortality File is the same as the Person ID found on the LSOA II Public-use Data Files.

#### ***ELIGSTAT*** – Eligibility Status for Mortality Follow-Up

All LSOA II participants are included on the Linked Mortality File. LSOA II participants are defined as ineligible for mortality linkage if the amount of identifying data is insufficient to create a NDI submission record ([See Tabular Data, Table 2](#)). The number of LSOA II participants who were ineligible for mortality follow-up is very small (n=24).

#### ***MORTSTAT*** – Final Mortality Status

The **MORTSTAT** variable is NCHS's final determination of vital status and should be used as an outcome variable and to calculate survival. Each LSOA II participant who is eligible for mortality linkage is assigned a vital status code (0 = assumed alive; 1 = assumed deceased). The ascertainment of vital status for LSOA II participants with matches to NDI records is based upon the NCHS recommended criteria determined by a calibration study.

For some LSOA II sample persons (n=17), final vital status on the LSOA II Linked Mortality File is coded "assumed deceased" (**MORTSTAT**=1) and source of death information is based on NDI match information alone (**MORTSRCE**=1), despite last contact survey data indicating the contrary. Users should note that these sample persons will not be identified as deceased in the LSOA II Version 3.0 interview data files, but will be identified as deceased in the LSOA II Linked Mortality File. Decisions regarding adjudication of this discordant data are left to the data user.

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#### **MORTSRCE**—Final Mortality Source

Two sources are used to determine the final mortality status of LSOA II decedents—the NDI and the LSOA II survey records or a combination of the two:

- 1.) NDI probabilistic match only
- 2.) NDI and LSOA II survey match
- 3.) LSOA II survey match only

#### 1 NDI probabilistic match only:

A probabilistic NDI match record was accepted as a match  
No death was identified during the LSOA II follow-up period

#### 2 NDI and LSOA II survey match:

A probabilistic NDI match record was accepted as a match  
Death was identified during the LSOA II follow-up period

#### 3 LSOA II survey match only:

No probabilistic NDI match record was accepted as a match  
Death was identified during the LSOA II follow-up period

Blank Assumed alive or ineligible

In most instances, the source of death information for sample persons determined to be deceased comes from NDI match information (with or without survey confirmation). For some LSOA II sample persons (n=75), the LSOA II is the only source of death information (MORTSRCE=3). In these cases, it is important for the user to note that the date of death associated with these records is based on information obtained during the locating or interviewing process and is therefore subject to respondent recall error.

#### **DIABETES, HYPERTENS, & HIPFRACT**- Multiple cause of death flags

Certain contributing causes of death are only coded in the multiple causes of death codes according to ICD coding rules. The current Public-use LSOA II Linked Mortality File does not include the 20 entity-axis multiple causes of death codes. The multiple causes of death codes are only available on the [restricted-use version](#) of the LSOA II Linked Mortality File. However, in an effort to increase the utility of the public datasets, NCHS selected the three most commonly reported conditions found in the multiple causes of death codes (diabetes, hypertension, and hip fracture) and included a flag variable for each condition on the public-use version of the LSOA II Linked Mortality File. The flag variables were coded a 1 if specific ICD codes were found in any one of the 20 contributing or multiple causes of death fields as follows:

**DIABETES** = '1' if ICD-9 code '250' or ICD-10 codes 'E10 thru E14' was coded in entity-axis or record-axis multiple cause of death codes

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***HYPERTENS*** = '1' if ICD-9 codes '401' or '403' or ICD-10 codes 'I10' or 'I12' was coded in entity-axis or record-axis multiple cause of death codes

***HIPFRACT*** = '1' ICD-9 code 'E820' or ICD-10 codes 'S720 thru S722' were coded in entity-axis or record-axis multiple cause of death codes

#### **UCOD\_113** - Underlying Cause of Death 113 Groups All Years (ICD-10)

Cause of death coding for all U.S. deaths occurring prior to 1999 follows the 9th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-9) guidelines, while all deaths after 1998 follows the 10th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-10) guidelines. To assist the researcher with analyses that span the entire survey specific mortality period, the UCOD 113 variable was created as a recode of all deaths occurring prior to 1999 coded under ICD-9 guidelines into comparable ICD-10 based underlying cause of death groups.

For more on the comparability of ICD-9 and ICD-10 underlying cause of death UCOD 113 recode see: Anderson RN, Minino AM, Hoyert DL, Rosenberg HM. [Comparability of cause of death between ICD-9 and ICD-10: Preliminary estimates](#). National Vital Statistics Reports; Vol 49 No.2. Hyattsville, MD: National Center for Health Statistics. 2001. This document is also available on the NCHS website.

For more information regarding ICD-9 coding guidelines see the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death: Based on the Recommendations of the Ninth Revision Conference, 1975, and Adopted by the Twenty-ninth World Health Assembly, Volume 1, 1977 (World Health Organization).

For more information regarding ICD-10 coding guidelines see the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. (World Health Organization) 1992. Revision, Volume 1.

**2007 LSOA II LINKED MORTALITY PUBLIC-USE FILE**  
**Detailed Notes for Selected Variables**

Tenth Revision 113 Selected Causes of Death

ST: 1 = Subtotal

Limited: Sex: 1 = Males; 2 = Females

Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and over;  
 4 = Under 1 year; 5 = 1-4 years; 6 = 1 year and over;  
 7 = 10 years and over

\*\*\*\*Cause Subtotals are not identified in this file \*\*\*\*

113	S	Limited		
Recode	T	Sex	Age	Cause Title and ICD-10 Codes Included
001				Salmonella infections (A01-A02)
002				Shigellosis and amebiasis (A03,A06)
003				Certain other intestinal infections (A04,A07-A09)
004	1			Tuberculosis (A16-A19)
005				Respiratory tuberculosis (A16)
006				Other tuberculosis (A17-A19)
007				Whooping cough (A37)
008				Scarlet fever and erysipelas (A38,A46)
009				Meningococcal infection (A39)
010			3	Septicemia (A40-A41)
011				Syphilis (A50-A53)
012				Acute poliomyelitis (A80)
013				Arthropod-borne viral encephalitis (A83-A84,A85.2)
014				Measles (B05)
015				Viral hepatitis (B15-B19)
016				Human immunodeficiency virus (HIV) disease (B20-B24)
017				Malaria (B50-B54)
018				Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20-A36,A42-A44,A48-A49, A54-79,A81-A82,A85.0-A85.1,A85.8, A86-B04,B06-B09,B25-B49,B55-99)
019	1			Malignant neoplasms (C00-C97)
020				Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
021				Malignant neoplasm of esophagus (C15)
022				Malignant neoplasm of stomach (C16)
023				Malignant neoplasms of colon, rectum and anus (C18-C21)
024				Malignant neoplasms of liver and intrahepatic bile ducts (C22)
025				Malignant neoplasm of pancreas (C25)
026				Malignant neoplasm of larynx (C32)
027				Malignant neoplasms of trachea, bronchus and lung (C33-C34)
028				Malignant melanoma of skin (C43)
029				Malignant neoplasm of breast (C50)
030			2	Malignant neoplasm of cervix uteri (C53)
031			2	Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)
032			2	Malignant neoplasm of ovary (C56)
033			1	Malignant neoplasm of prostate (C61)
034				Malignant neoplasms of kidney and renal pelvis (C64-C65)
035				Malignant neoplasm of bladder (C67)
036				Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)
037			1	Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)

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113	S	Limited		
Recode	T	Sex	Age	Cause Title and ICD-10 Codes Included
038				Hodgkin's disease (C81)
039				Non-Hodgkin's lymphoma (C82-C85)
040				Leukemia (C91-C95)
041				Multiple myeloma and immunoproliferative neoplasms (C88,C90)
042				Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)
043				All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41, C44-C49,C51-C52,C57-C60,C62-C63,C66,C68-C69,C73-C80,C97)
044				In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
045				Anemias (D50-D64)
046			3	Diabetes mellitus (E10-E14)
047				Nutritional deficiencies (E40-E64)
048				Malnutrition (E40-E46)
049				Other nutritional deficiencies (E50-E64)
050				Meningitis (G00,G03)
051				Parkinson's disease (G20-G21)
052				Alzheimer's disease (G30)
053	1			Major cardiovascular diseases (I00-I78)
054	1			Diseases of heart (I00-I09,I11,I13,I20-I51)
055				Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)
056				Hypertensive heart disease (I11)
057				Hypertensive heart and renal disease (I13)
058	1			Ischemic heart diseases (I20-I25)
059				Acute myocardial infarction (I21-I22)
060				Other acute ischemic heart diseases (I24)
061	1			Other forms of chronic ischemic heart disease (I20,I25)
062				Atherosclerotic cardiovascular disease, so described (I25.0)
063				All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)
064	1			Other heart diseases (I26-I51)
065				Acute and subacute endocarditis (I33)
066				Diseases of pericardium and acute myocarditis (I30-I31,I40)
067				Heart failure (I50)
068				All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)
069				Essential (primary) hypertension and hypertensive renal disease (I10,I12)
070				Cerebrovascular diseases (I60-I69)
071				Atherosclerosis (I70)
072	1			Other diseases of circulatory system (I71-I78)

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113 S Limited

Recode T Sex Age Cause Title and ICD-10 Codes Included

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073				Aortic aneurysm and dissection (I71)
074				Other diseases of arteries, arterioles and capillaries (I72-I78)
075				Other disorders of circulatory system (I80-I99)
076	1			Influenza and pneumonia (J10-J18)
077				Influenza (J10-J11)
078				Pneumonia (J12-J18)
079	1			Other acute lower respiratory infections (J20-J22)
080				Acute bronchitis and bronchiolitis (J20-J21)
081				Unspecified acute lower respiratory infection (J22)
082	1			Chronic lower respiratory diseases (J40-J47)
083				Bronchitis, chronic and unspecified (J40-J42)
084		3		Emphysema (J43)
085				Asthma (J45-J46)
086				Other chronic lower respiratory diseases (J44,J47)
087				Pneumoconioses and chemical effects (J60-J66,J68)
088				Pneumonitis due to solids and liquids (J69)
089				Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)
090				Peptic ulcer (K25-K28)
091				Diseases of appendix (K35-K38)
092				Hernia (K40-K46)
093	1			Chronic liver disease and cirrhosis (K70,K73-K74)
094				Alcoholic liver disease (K70)
095				Other chronic liver disease and cirrhosis (K73-K74)
096				Cholelithiasis and other disorders of gallbladder (K80-K82)
097	1			Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)
098				Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)
099				Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26)
100				Renal failure (N17-N19)
101				Other disorders of kidney (N25,N27)
102				Infections of kidney (N10-N12,N13.6,N15.1)
103	1			Hyperplasia of prostate (N40)
104		2		Inflammatory diseases of female pelvic organs (N70-N76)
105	1	2	7	Pregnancy, childbirth and the puerperium (O00-O99)
106		2	7	Pregnancy with abortive outcome (O00-O07)

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Recode	T	Sex	Age	Cause Title and ICD-10 Codes Included
107		2	7	Other complications of pregnancy, childbirth and the puerperium (O10-O99)
108				Certain conditions originating in the perinatal period (P00-P96)
109				Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
110				Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
111				All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12,G23-G25,G31-H93, K00-K22,K29-K31,K50-K66,K71-K72,K75-K76,K83-M99, N13.0-N13.5,N13.7-N13.9, N14,N15.0,N15.8-N15.9,N20-N23,N28-N39,N41-N64,N80-N98)
112	1			Accidents (unintentional injuries) (V01-X59,Y85-Y86)
113	1			Transport accidents (V01-V99,Y85)
114				Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0 V88.8,V89.0,V89.2)
115				Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9, V10-V11, V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9)
116				Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85)
117	1			Nontransport accidents (W00-X59,Y86)
118				Falls (W00-W19)
119				Accidental discharge of firearms (W32-W34)
120				Accidental drowning and submersion (W65-W74)
121				Accidental exposure to smoke, fire and flames (X00-X09)
122				Accidental poisoning and exposure to noxious substances (X40-X49)
123				Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)
124	1	1		Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
125		1		Intentional self-harm (suicide) by discharge of firearms (X72-X74)
126		1		Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60-X71,X75-X84, Y87.0)
127	1			Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)
128				Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
129				Assault (homicide) by other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)
130				Legal intervention (Y35,Y89.0)
131	1			Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)
132				Discharge of firearms, undetermined intent (Y22-Y24)
133				Other and unspecified events of undetermined intent and their sequelae (Y10-Y21, Y25-Y34, Y87.2, Y89.9)
134				Operations of war and their sequelae (Y36,Y89.1)
135				Complications of medical and surgical care (Y40-Y84,Y88)