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Supplemental Table 1: International Classification of Disease (ICD) codes⁹ for causes of death used in analyses: ICD-7 through ICD-10.				
Cause of death	ICD-7 (1958-1967)	ICD-8 (1968-1978)	ICD-9 (1979-1998)	ICD-10 (1999-present)
Preventable by medical care*				
Tuberculosis	001-008, 010-019	011-019	010-108,137	A15-A19
Cervical cancer	171	180	180	C53
Hodgkin's disease	201	201	201	C81
Rheumatic heart disease	410-416	393-398	393-398	I05-I09
Hypertensive heart disease	440-447	400-404	401-405	I11
Cerebrovascular disease	330-334	430-438	430-438	I60-I69
Acute respiratory disease	470-475	460-466	460-466	J00-J06
Pneumonia & bronchitis	480, 490-493, 500-502	480-486, 490-491	480-486, 490-491	J11.0, J12-J18, J20-J22
Influenza	480-483	470-474	487	J10-J11
Asthma	241	493	493	J45
Appendicitis	550-553	540-543	540-543	K35-K37
Inguinal hernias	560-561	550-553	550-553	K40
Cholecystitis	585-585	574-575	574-575.1	K81
Smoking-related mortality**				
Malignant neoplasm				
lip, oral cavity, pharynx	140-148	140-149	140-149	C00-C14
esophagus	150	150	150	C15
stomach	151	151	151	C16
pancreas	157	157	157	C25
trachea/lung/bronchus	162	162	162	C33-C34
cervix uteri	171	180	180	C53
kidney and renal pelvis	180	189.0-189.1, 180.2	189.0-189.1, 180.2	C64-C65
urinary bladder	181	188, 189.9	188, 189.3, 189.8, 189.9	C67
acute myeloid leukemia	204.1, 204.3	205.0	205.0	C92.0
Cardiovascular disease				
ischemic heart disease	420, 422.1	410-414	410-414	I20-I25
other heart disease	400-402, 410-416, 440-443, 420-422, 430-434	393-398, 402,404, 420-429	393-398, 402,404,415-417, 420-429	I00-I09, I26-I51
cerebrovascular disease	330-334	430-438	430-438	I60-I69
arteriosclerosis	450	440	440	I70-I71
aortic aneurysm	451	441	441	I71
other circulatory disease	452-456, 460-468	442-448, 450-458	442-448, 451-458	I72-I79, I80-I89
Respiratory disease				
pneumonia, influenza	480-483, 490-493	480-486, 470-474	480-487	J10-J18
bronchitis, emphysema	500-502, 527.1	490-492	490-492	J40-J42, J43
chronic airways obstruction	N/A	N/A	496	J44
Perinatal conditions				
Short gestation/low birth weight	N/A	N/A	765	P07
Respiratory distress syndrome	N/A	N/A	769	P22
Other respiratory (newborn)	N/A	N/A	770	P23-P28

Sudden Infant Death Syndrome	N/A	N/A	N/A	R95
Residential Fire				
Secondhand smoke				
lung cancer	162	162	162	C33-C34
ischemic heart disease	N/A	410-414	410-414	I20-I25
Additional causes of death				
Ill-defined causes of death	780-795	780-796	780-799	R00-R99
colorectal cancer	153-154	153-154	153-154	C18-C21
prostate cancer	177	185	185	C61
breast cancer	170	174	174-175	C50
diabetes	260	250	250	E10-E14
injuries	E800-E936, E960-E962	E800-E845, E860-E929, E940-E949	E800-E869, E880-E929	V01-V99, W00-W99, X00-X59
homicide	E964	E960-E978	E960-E978	X85-X99, Y00-Y09
HIV/AIDS	N/A	N/A	042-044	B20-B24

* Referring to deaths preventable by medical intervention since at least 1960.¹¹⁻¹³

** As defined by the US Centers for Disease Control and Prevention and US Surgeon General¹⁰; all other causes of death categorized as “not smoking related”

NOTE In the case of stroke and ischemic heart disease (not included as such in ICD-7), we respectively employed the ICD-7 codes for vascular lesions affecting the central nervous system (330-334) and arteriosclerotic heart disease (420) and other myocardial degeneration with arteriosclerosis (422.1); for several outcomes the level of diagnostic specificity was determined by the earlier ICD codes, with coding also informed by previously published work on ICD comparability ratios.

Supplemental Table 2: Cut-points for county income quintiles, United States, decennial census 1960 through 2000.					
Year	County median family income quintile cut-points: upper bound for each quintile expressed in that year's dollars				
	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)
1960	\$12,020	\$15,437	\$18,300	\$21,552	\$38,445
1970	\$18,479	\$21,851	\$24,974	\$28,482	\$57,707
1980	\$24,522	\$28,021	\$31,232	\$35,342	\$73,665
1990	\$24,391	\$27,746	\$30,722	\$34,976	\$68,510
2000	\$36,125	\$40,301	\$44,449	\$50,813	\$101,823

Supplemental Table 3: Top 10 leading causes of death, United States, 1960 and 2006.						
1960				2006		
White male	White female	Nonwhite male	Nonwhite female	Total	White	Black
Diseases of heart	Diseases of heart	Diseases of heart	Diseases of heart	Diseases of heart	Diseases of heart	Diseases of heart
Malignant neoplasms	Malignant neoplasms	Malignant neoplasms	Vascular lesions of central nervous system	Malignant neoplasms	Malignant neoplasms	Malignant neoplasms
Vascular lesions of central nervous system	Vascular lesions of central nervous system	Vascular lesions of central nervous system	Malignant neoplasms	Cerebrovascular disease	Cerebrovascular disease	Cerebrovascular disease
Accidents	Accidents	Accidents	Certain diseases of early infancy	Chronic lower respiratory disease	Chronic lower respiratory disease	Unintentional injury
Influenza and pneumonia	Influenza and pneumonia	Certain disease of early infancy	Influenza and pneumonia	Unintentional injury	Unintentional injury	Diabetes mellitus
Certain diseases of early infancy	Certain disease of early infancy	Influenza and pneumonia	Accidents	Diabetes mellitus	Alzheimer's disease	Homicide
General arteriosclerosis	General arteriosclerosis	Homicide	Diabetes mellitus	Alzheimer's disease	Diabetes mellitus	Nephritis, nephritic syndrome and nephrosis
Suicide	Diabetes mellitus	Tuberculosis, all forms	General arteriosclerosis	Influenza & pneumonia	Influenza & pneumonia	Chronic lower respiratory disease
Cirrhosis of liver	Congenital malformations	Congenital malformations	Chronic and unspecified nephritis	Nephritis, nephritic syndrome and nephrosis	Nephritis, nephritic syndrome and nephrosis	Human immunodeficiency virus (HIV) disease
Other diseases of circulatory system	Other diseases of circulatory system	Chronic and unspecified nephritis	Other hypertensive disease	Septicemia	Suicide	Septicemia

Sources: (a) for 1960 data: National Center for Health Statistics. *Vital Statistics of the United States, 1960, Volume II – Mortality, Part A*. Washington, DC: US Department of Health, Education, and Welfare, 1963; (b) for 2006 data: National Center for Health Statistics. *Health, United States, 2009, with Special Feature on Medical Technology*. Hyattsville, MD: US Department of Health and Human Services, 2010 (Table 28).