eAppendix

eTable 1 Descriptive statistics at 1991 baseline (column %s except where stated)

Variable		Men	Women
Average age in years		48.6	46.3
Limiting long term illness			
	No	84.6	87.5
	Yes	15.4	12.6
Qualifications			
	None/unstated	83.8	85.5
	Other higher	8.1	9.8
	Degree and higher	8.1	4.7
Ethnicity			
	White	99.0	99.0
	Black	0.1	0.1
	South Asian	0.6	0.5
	Other Asian	0.2	0.2
	Other	0.2	0.1
Social class			
	No job in last 10 years	12.4	27.9
	I Professional	5.7	1.1
	II Managerial	24.0	19.5
	IIIN Skilled non-manual	8.6	25.8
	IIIM Skilled manual	29.8	5.2
	IV Partly skilled	14.2	11.3
	V Unskilled	4.0	8.8
	Armed forces/ not stated	1.3	0.4
Tenure			
	Owner occupied	65.0	64.5
	Private renting	7.5	7.6
	Social renting	27.5	27.9
Household size			
	2	39.8	38.9
	3	22.3	22.8
	4	25.1	25.8
	5	9.4	9.2
	6+	3.3	3.4
Cars			
	0	22.5	22.7
	1	51.4	51.3
	2+	26.1	26.0
Central heating			
	Yes	84.3	84.4
	No	15.7	15.6
Deprivation (area-based)			
	1 (least deprived)	22.5	22.5
	2	21.3	21.4
	3	20.3	20.4
	4	19.5	19.6
	5 (most deprived)	16.4	16.1

eTable 2 Causes of death by classification (ICD9 codes in brackets)

Informative/uninformative classification of causes of death
(Espinosa and Evans, 2008)

Uninformative Causes

Men

Pancreatic cancer (157)
Neoplasms of bone, connective tissue and skin (170–175);
Neoplasms of unspecified sites (190–199);
Benign neoplasms and carcinoma in situ (210–239).
Genital cancer (179–187)
Lymphoma, leukemia (200–208)
Cardiomyopathy (425)
Pneumonia (480–487)
Non-motor vehicle accidents, murder/suicide (800–807; 826–999)

Women

Other cancers (140–152;154–156; 157–161;163–173;175–178; 190–199)
Breast cancer (174)
Genitourinary cancer (179–189)
General circulatory disease (390–459)[a]
Accidents (800–999)

a These diseases include all general circulatory diseases except the following: acute myocardial infarction (410), other forms of chronic ischemic heart disease (414), other forms of heart disease (420–429), intracerebral hemorrhage (431), other and unspecified intracranial hemorrhage (432), and occlusion of cerebral arteries (434).

All other causes are considered informative

Avoidable classification of causes of death,
Page et al. (2006)

Amenable to medical care

Tuberculosis (010–018,137)
Selected invasive bacterial and protozoal infection (034–036, 038, 084, 320, 681, 682)
Malignant neoplasm of colon and rectum (153, 154)
Malignant melanoma of skin (172)
Other malignant neoplasms of skin (173)
Malignant neoplasms of breast (174–175)
Malignant neoplasm of corpus uteri and uterus unspecified (179, 182)
Malignant neoplasm of cervix uteri (180)
Malignant neoplasm of bladder (188)
Malignant neoplasm of thyroid gland (193)
Hodgkin's disease (201)
Lymphoid leukaemia – acute/ chronic (204.0, 204.1)
Benign neoplasms (210–229)
Disorders of thyroid gland (240–246)
Diabetes mellitus (250)
Epilepsy and status epilepticus (345)
Rheumatic and other valvular heart disease (390–398)
Hypertensive diseases (401–405)
Ischaemic heart diseases (410–414)
Cerebrovascular diseases (430–438)
Nephritis and nephrosis (580–589)

Obstructive uropathy & prostatic hyperplasia (592, 593.7, 594, 598 , 599.6, 600)
Asthma (493)
Peptic ulcer (531–534)
Acute abdomen, appendicitis, intestinal obstruction, (540–543, 550–553, 574–577) cholecystitis / lithiasis, pancreatitis, hernia
Congenital malformations, deformations and chromosomal anomalies (740–759)

Preventable
HIV/AIDS (042–044)
Viral hepatitis (070)
Malignant neoplasm of lip, oral cavity and pharynx (140–149)
Malignant neoplasm of oesophagus (150)
Malignant neoplasm of stomach (151)
Malignant neoplasm of liver (155)
Malignant neoplasm of trachea, bronchus and lung (162)
Alcohol-related diseases, excluding external causes (291, 303, 305.0, 425.5, 571.0–5, 571.8, 571.9)
Illicit drug use disorders (292, 304, 305.2–305.9)
Aortic aneurysm and dissection (441)
DVT with pulmonary embolism (415.1, 451.1–451.2, (451.9, 453.9)
Influenza (487)
Pneumonia (480–486)
COPD (490–492, 496)
Land transport accidents (E800–E829)
Accidental poisonings (E850–E869)
Falls (E880–E886, E888)
Exposure to fire, smoke and flames (E890–E899)
Accidental drowning and submersion (E910)
Fracture, cause unspecified (E887)
Suicide and self inflicted injuries (E950–E959, E980–E989(excl E988.8)
Homicide/ assault (E960–E969, E988.8)

All other causes are considered unavoidable

Risky causes of death
(Martikainen and Valkonen, 1996)

Risky causes
Alcoholic psychosis (291); alcoholism (303);
Alcoholic liver diseases and cirrhosis of the liver (5710-5713);
Alcoholic diseases of the pancreas (5770, 5771);
Cancer of the mouth and pharynx (140-149); cancer of the oesophagus (150);
Cancer of the larynx (161); lung cancer (162);
Chronic obstructive pulmonary disease (490-492);
Accidents and violence (E800-E999).

All other causes are classed as unrisky

Note: ICD 9 codes are listed while equivalent ICD 10 codes are also used in the research.

eTable 3 Number of deaths after widowhood corresponding to hazard ratios presented in Figure 1

	Period after widowhood (years)												
	0–0.5	0.5-1	1-2	2-3	3-4	4-5	5-6	6-7	7=8	8-9	9-10	10-11	12+
Men	179	154	281	242	217	167	180	154	130	88	71	56	96
Women	177	134	279	247	290	241	221	194	181	140	120	113	211