

Table S1. Categories of causes of death and ICD 10 codes

Cause of death	ICD 10 codes
Infectious and parasitic diseases	A00-B99
Diseases of the blood and blood-forming organs	D50-D89
Endocrine, nutritional and metabolic diseases	E00-E89
Diabetes mellitus	E10-E14
Diseases of the digestive system	K00-K92
Cirrhosis, fibrosis and chronic hepatitis	K70, K73-K74
Mental and behavioural disorders	F01-F99
Alcohol abuse (incl. alcoholic psychosis)	F10
Diseases of the nervous system and the sense organs	G00-H95
Parkinson disease	G20
Alzheimer's disease	G30
Diseases of the circulatory system	I00-I99
Ischemic heart diseases	I20-I25
Other heart diseases	I30-I51
Cerebrovascular diseases	I60-I69
Diseases of the respiratory system	J00-J99
Pneumonia	J12-J18
Chronic lower respiratory diseases	J40-J47
Diseases of the skin and subcutaneous tissue	L00-L99
Diseases of the musculoskeletal system/connective tissue	M00-M99
Diseases of the genitourinary system	N00-N99
Diseases of kidney and ureter	N00-N29
External causes	V01-Y89
Transport accidents	V01-V99, Y85
Suicide	X60-X84, Y87.0
Symptoms, signs, ill-defined causes	R00-R99
All cancers	C00-D48
Lip, buccal cavity, pharynx	C00-C14
Esophagus	C15
Stomach	C16
Colon and rectum	C18-C21
Liver	C22
Pancreas	C25
Larynx, trachea, bronchus and lung	C32-C34
Breast	C50
Uterus	C53-C55
Prostate	C61
Bladder	C67
Lymphatic and haematopoietic	C81-C96
Multiple myeloma	C90
Non-Hodgkin lymphoma	C82-C88
Leukemia	C91-C95

Table S2. Standardized mortality ratios by period of follow-up

	period	exp	obs	Men			Women				
				SMR	95% CI	CI	exp	obs	SMR	95% CI	CI
Infectious and parasitic diseases	2000-2007	48.17	43	0.89	0.65	1.20	11.46	15	1.31	0.73	2.16
	2008-2015	46.93	41	0.87	0.63	1.19	12.90	13	1.01	0.54	1.72
Diseases of the blood and blood-forming organs	2000-2007	6.78	2				1.87	1			
	2008-2015	5.55	7	1.26	0.51	2.60	2.25	1			
Endocrine, nutritional and metabolic diseases	2000-2007	87.06	83	0.95	0.76	1.18	32.87	31	0.94	0.64	1.34
	2008-2015	88.24	73	0.83	0.65	1.04	35.65	37	1.04	0.73	1.43
Diseases of the digestive system	2000-2007	72.06	68	0.94	0.73	1.20	16.47	6	0.36	0.13	0.79
	2008-2015	60.06	59	0.98	0.75	1.27	16.26	13	0.80	0.43	1.37
Mental and behavioural disorders	2000-2007	42.54	36	0.85	0.59	1.17	5.70	3	0.53	0.11	1.54
	2008-2015	40.18	38	0.95	0.67	1.30	8.81	10	1.14	0.54	2.09
Diseases of the nervous system and the sense organs	2000-2007	72.45	67	0.92	0.72	1.17	17.69	20	1.13	0.69	1.75
	2008-2015	90.09	95	1.05	0.85	1.29	28.62	27	0.94	0.62	1.37
Diseases of the circulatory system	2000-2007	470.77	433	0.92	0.84	1.01	131.39	104	0.79	0.65	0.96
	2008-2015	376.60	383	1.02	0.92	1.12	124.10	116	0.93	0.77	1.12
Diseases of the respiratory system	2000-2007	86.69	78	0.90	0.71	1.12	18.17	12	0.66	0.34	1.15
	2008-2015	82.23	81	0.99	0.78	1.22	22.74	19	0.84	0.50	1.31
Diseases of the skin and subcutaneous tissue	2000-2007	7.84	10	1.27	0.61	2.34	2.82	0			
	2008-2015	6.00	8	1.33	0.58	2.63	3.01	3	1.00	0.21	2.92
Diseases of the musculoskeletal system/connective tissue	2000-2007	5.70	3	0.53	0.11	1.54	1.84	2			
	2008-2015	6.97	6	0.86	0.32	1.87	2.86	5	1.75	0.57	4.08
Diseases of the genitourinary system	2000-2007	35.36	34	0.96	0.67	1.34	6.54	8	1.22	0.53	2.41
	2008-2015	30.74	29	0.94	0.63	1.35	7.72	6	0.78	0.29	1.69
External causes	2000-2007	89.56	70	0.78	0.61	0.99	11.73	10	0.85	0.41	1.57
	2008-2015	71.74	61	0.85	0.65	1.09	12.85	15	1.17	0.65	1.93
Symptoms, signs, ill-defined causes	2000-2007	121.27	87	0.72	0.57	0.88	34.02	18	0.53	0.31	0.84
	2008-2015	175.65	174	0.99	0.85	1.15	60.23	57	0.95	0.72	1.23

	period	exp	obs	Men			Women					
				SMR	95%	CI	exp	obs	SMR	95%	CI	
All cancers	2000-2007	446.31	408	0.91	0.83	1.01	77.73	76	0.98	0.77	1.22	
	2008-2015	398.04	415	1.04	0.94	1.15	83.27	89	1.07	0.86	1.32	
Lip, buccal cavity, pharynx	2000-2007	17.38	17	0.98	0.57	1.57	0.64	0				
	2008-2015	10.97	17	1.55	0.90	2.48	0.62	0				
Esophagus	2000-2007	15.40	14	0.91	0.50	1.53	0.96	0				
	2008-2015	9.66	9	0.93	0.43	1.77	0.53	2				
Stomach	2000-2007	40.66	43	1.06	0.77	1.42	6.05	13	2.15	1.14	3.67	
	2008-2015	34.77	39	1.12	0.80	1.53	6.72	11	1.64	0.82	2.93	
Colon and rectum	2000-2007	26.27	16	0.61	0.35	0.99	7.87	6	0.76	0.28	1.66	
	2008-2015	35.24	33	0.94	0.65	1.32	9.92	12	1.21	0.62	2.11	
Liver	2000-2007	15.26	5	0.33	0.11	0.76	2.92	3	1.03	0.21	3.01	
	2008-2015	14.06	8	0.57	0.25	1.12	2.86	2				
Pancreas	2000-2007	18.77	17	0.91	0.53	1.45	4.84	7	1.45	0.58	2.98	
	2008-2015	22.76	18	0.79	0.47	1.25	6.91	8	1.16	0.50	2.28	
Larynx, trachea, bronchus and lung	2000-2007	42.68	37	0.87	0.61	1.20	4.56	6	1.32	0.48	2.87	
	2008-2015	36.22	35	0.97	0.67	1.34	5.44	7	1.29	0.52	2.65	
Breast	2000-2007	0.91	1				9.77	5	0.51	0.17	1.19	
	2008-2015	0.80	1				9.81	9	0.92	0.42	1.74	
Uterus							7.26	8	1.10	0.47	2.17	
							8.28	7	0.85	0.34	1.75	
Prostate	2000-2007	140.27	134	0.96	0.80	1.13	0.00	0	.	.	.	
	2008-2015	122.05	136	1.11	0.93	1.32	0.00	0	.	.	.	
Bladder	2000-2007	7.89	8	1.01	0.44	2.00	1.14	4	3.50	0.95	8.95	
	2008-2015	8.14	10	1.23	0.59	2.26	1.52	1				
Lymphatic and haematopoietic	2000-2007	34.65	38	1.10			8.63	7	0.81	0.33	2.38	
	2008-2015	33.86	37	1.09			8.60	5	0.58	0.21	2.00	

Table S3. Standardized mortality ratios among farm owners and farm workers

	Farm owners						Farm workers					
	Gender	exp	obs	SMR	95%	CI	Gender	exp	obs	SMR	95%	CI
Infectious and parasitic diseases	F	9.34	12	1.29	0.66	2.25	F	14.01	16	1.14	0.65	1.85
	M	63.86	52	0.81	0.61	1.07	M	34.37	32	0.93	0.64	1.31
Diseases of the blood and blood-forming organs	F	1.64	1				F	2.26	1			
	M	8.16	4	0.49	0.13	1.26	M	4.45	5	1.12	0.36	2.62
Endocrine, nutritional and metabolic diseases	F	27.85	32	1.15	0.79	1.62	F	37.52	36	0.96	0.67	1.33
	M	124.82	98	0.79	0.64	0.96	M	55.89	58	1.04	0.79	1.34
Diseases of the digestive system	F	12.96	7	0.54	0.22	1.11	F	18.28	12	0.66	0.34	1.15
	M	86.74	79	0.91	0.72	1.14	M	47.73	48	1.01	0.74	1.33
Mental and behavioural disorders	F	6.16	3	0.49	0.10	1.42	F	7.34	10	1.36	0.65	2.50
	M	53.46	44	0.82	0.60	1.11	M	31.35	30	0.96	0.65	1.37
Diseases of the nervous system and the sense organs	F	18.07	22	1.22	0.76	1.84	F	26.33	25	0.95	0.61	1.40
	M	113.73	103	0.91	0.74	1.10	M	52.97	59	1.11	0.85	1.44
Diseases of the circulatory system	F	107.88	94	0.87	0.70	1.07	F	132.10	126	0.95	0.79	1.14
	M	604.81	568	0.94	0.86	1.02	M	263.66	248	0.94	0.83	1.07
Diseases of the respiratory system	F	18.39	18	0.98	0.58	1.55	F	19.27	13	0.67	0.36	1.15
	M	128.29	117	0.91	0.75	1.09	M	48.60	42	0.86	0.62	1.17
Diseases of the skin and subcutaneous tissue	F	2.71	2				F	2.56	1			
	M	10.42	13	1.25	0.66	2.13	M	3.91	5	1.28	0.42	2.99
Diseases of the musculoskeletal system/connective tissue	F	1.75	3	1.71	0.35	5.01	F	2.79	4	1.43	0.39	3.67
	M	8.90	5	0.56	0.18	1.31	M	4.24	4	0.94	0.26	2.42
Diseases of the genitourinary system	F	5.53	5	0.90	0.29	2.11	F	8.11	9	1.11	0.51	2.11
	M	47.35	39	0.82	0.59	1.13	M	20.56	24	1.17	0.75	1.74
External causes	F	9.80	6	0.61	0.22	1.33	F	13.30	19	1.43	0.86	2.23
	M	95.10	72	0.76	0.59	0.95	M	68.55	59	0.86	0.66	1.11
Symptoms, signs, ill-defined causes	F	43.48	27	0.62	0.41	0.90	F	42.85	48	1.12	0.83	1.49
	M	221.12	174	0.79	0.67	0.91	M	95.85	87	0.91	0.73	1.12

	Farm owners						Farm workers					
	Gender	exp	obs	SMR	95%	CI	Gender	exp	obs	SMR	95%	CI
All cancers	F	53.96	59	1.09	0.83	1.41	F	104.26	106	1.02	0.83	1.23
	M	565.99	526	0.93	0.85	1.01	M	288.09	297	1.03	0.92	1.16
Lip, buccal cavity, pharynx	F	0.39	0				F	0.85	0			
	M	16.14	20	1.24	0.76	1.91	M	12.09	14	1.16	0.63	1.94
Esophagus	F	0.50	1				F	0.96	1			
	M	15.25	13	0.85	0.45	1.46	M	9.91	10	1.01	0.48	1.86
Stomach	F	4.68	12	2.57	1.33	4.48	F	7.69	12	1.56	0.81	2.73
	M	50.42	49	0.97	0.72	1.28	M	25.54	33	1.29	0.89	1.82
Colon and rectum	F	6.15	6	0.98	0.36	2.12	F	11.24	12	1.07	0.55	1.86
	M	38.59	35	0.91	0.63	1.26	M	22.84	14	0.61	0.34	1.03
Liver	F	1.91	1				F	3.83	4	1.05	0.28	2.68
	M	17.88	5	0.28	0.09	0.65	M	11.63	8	0.69	0.30	1.36
Pancreas	F	3.89	9	2.31	1.06	4.39	F	7.70	6	0.78	0.29	1.70
	M	26.37	21	0.80	0.49	1.22	M	15.33	14	0.91	0.50	1.53
Larynx, trachea, bronchus and lung	F	3.05	2				F	6.90	11	1.59	0.80	2.85
	M	48.28	40	0.83	0.59	1.13	M	31.08	32	1.03	0.70	1.45
Breast	F	5.98	4	0.67	0.18	1.71	F	13.23	10	0.76	0.36	1.39
	M	1.11	2				M	0.65	0			
Uterus	F	4.98	7	1.41	0.57	2.90		10.43	8	0.77	0.33	1.52
	M						M					
Prostate	F						F					
	M	194.35	188	0.97	0.83	1.12	M	74.61	82	1.10	0.87	1.36
Bladder	F	1.01	2				F	1.60	3	1.87	0.39	5.48
	M	11.20	14	1.25	0.68	2.10	M	5.13	4	0.78	0.21	2.00
Lymphatic and haematopoietic	F	5.75	2				F	11.18	10	0.89	0.43	2.00
	M	44.80	45	1.00	0.73	1.34	M	24.16	30	1.24	0.84	1.77