

ESM Table 1 Outcomes of interest—site-specific cancer mortality

Type of cancer	ICD-9 code(s)	ICD-10 code(s)	No. of deaths
Any cancer	140–208	C00–C97	39,386
Oesophagus	150	C15	1449
Stomach	151	C16	6644
Colorectum	153, 154	C18–C21	4409
Colon	153	C18	2811
Rectum	154	C19–C21	1598
Liver	155	C22	3966
Bile duct	155.1, 156.1	C22.1, C24.0	581
Gallbladder	156	C23, C24	1712
Pancreas	157	C25	2546
Lung	162	C33, C34	8255
Breast	174	C50	1122
Endometrium	182	C54	167
Cervix	180	C53	311
Ovary	183	C56	466
Prostate	185	C61	842
Bladder	188	C67	549
Kidney	189	C64–C66, C68	607
Thyroid	193	C73	160
Lymphoma	200–202	C81–C86, C96	906
Leukaemia	204–208	C91–C95	876

ESM Table 2 Diabetes duration and selected site-specific cancer mortality ^a				
Type of cancer	No diabetes	Diabetes duration < 5 years	Diabetes duration ≥ 5 years	<i>p</i> ^c
Any cancer				
Deaths (n)	9257	451	502	
HR (95% CI) ^b	1.00	1.34 (1.21, 1.47)	1.23 (1.13, 1.35)	0.25
Colorectum				
Deaths (n)	1188	74	89	
HR (95% CI) ^b	1.00	1.63 (1.29, 2.07)	1.57 (1.26, 1.96)	0.77
Liver				
Deaths (n)	968	71	63	
HR (95% CI) ^b	1.00	2.00 (1.34, 2.98)	1.40 (0.83, 2.34)	0.09
Gallbladder				
Deaths (n)	273	16	10	
HR (95% CI) ^b	1.00	2.07 (0.86, 5.03)	1.23 (0.65, 2.34)	0.66
Pancreas				
Deaths (n)	526	29	26	
HR (95% CI) ^b	1.00	1.62 (1.11, 2.36)	1.21 (0.68, 2.14)	0.26
Breast				
Deaths (n)	436	24	34	
HR (95% CI) ^b	1.00	1.67 (1.10, 2.54)	2.29 (1.60, 3.27)	0.49

^aData were available only from the Shanghai Men's Health Study, Shanghai Women's Health Study, Cardiovascular Disease Risk Factor Two-Township Study, Singapore Chinese Health Study, Korea Multicenter Cancer Cohort Study, and Seoul Male Cohort Study.

^bEstimated by comparison of the HR for subjects with a diagnosis of diabetes < 5 years with the HR for subjects with a diagnosis of diabetes ≥ 5 years.

^cHazard ratios were adjusted for sex, baseline age, BMI, cigarette smoking, alcohol consumption, educational attainment, and urban residence.

ESM Table 3 Diabetes treatment and selected site-specific cancer mortality^a

Type of cancer	No diabetes	Diabetes not treated	Diabetes treated	<i>p</i> ^c
Any cancer				
Deaths (n)	11 983	202	515	
HR (95% CI) ^b	1.00	1.10 (0.96, 1.27)	1.38 (1.19, 1.60)	0.03
Colorectum				
Deaths (n)	1368	28	54	
HR (95% CI) ^b	1.00	1.42 (0.97, 2.07)	1.27 (0.96, 1.67)	0.32
Liver				
Deaths (n)	1138	32	95	
HR (95% CI) ^b	1.00	1.82 (1.28, 2.60)	2.56 (1.94, 3.38)	0.12
Gallbladder				
Deaths (n)	663	10	29	
HR (95% CI) ^b	1.00	1.15 (0.54, 2.44)	1.44 (0.98, 2.10)	0.84
Pancreas				
Deaths (n)	964	17	53	
HR (95% CI) ^b	1.00	1.40 (0.86, 2.27)	1.86 (1.40, 2.46)	0.44

^aData were available only from the Japan Public Health Center-Based Prospective Study 1 and 2, Miyagi Cohort Study, and Ohsaki National Health Insurance Beneficiaries Cohort Study.

^bEstimated by comparison of the HR for subjects treated for diabetes with the HR for subjects not treated for diabetes.

^cHazard ratios were adjusted for sex, baseline age, BMI, cigarette smoking, alcohol consumption, educational attainment, and urban residence.