

Web Table 1: Cox regression models for all site and site-specific cancers, with and without BMI adjustment. Incidence diabetes vs. diabetes-free women

Cancer site	No. events	0-1 year follow-up		1-2 years follow-up		2+ years follow-up	
		HR	95% CI	HR	95% CI	HR	95% CI
All-site ^a	64,921	4.50	4.39, 4.61	1.45	1.37, 1.52	1.42	1.38, 1.46
Unadjusted ^b	17,113	4.45	4.25, 4.66	1.37	1.25, 1.51	1.43	1.37, 1.48
BMI adjusted ^b	17,113	4.41	4.21, 4.62	1.36	1.24, 1.49	1.41	1.35, 1.46
Colon-rectum ^a	9,019	6.33	6.00, 6.70	1.36	1.18, 1.56	1.44	1.33, 1.55
Unadjusted ^b	2,167	6.05	5.39, 6.77	1.08	0.81, 1.43	1.43	1.29, 1.59
BMI adjusted ^b	2,167	6.04	5.39, 6.78	1.08	0.81, 1.43	1.43	1.28, 1.60
Pancreas ^a	1,959	15.24	13.60, 17.08	5.37	4.38, 6.58	2.90	2.49, 3.37
Unadjusted ^b	498	16.44	13.16, 20.53	5.81	4.07, 8.28	3.05	2.42, 3.83
BMI adjusted ^b	498	17.12	13.67, 21.44	6.09	4.26, 8.70	3.22	2.54, 4.07
Kidney ^a	1,456	5.45	4.68, 6.34	1.73	1.26, 2.38	1.58	1.32, 2.90
Unadjusted ^b	376	6.48	4.88, 8.59	2.70	1.68, 4.34	1.80	1.39, 2.31
BMI adjusted ^b	376	6.02	4.53, 8.00	2.49	1.55, 4.00	1.64	1.26, 2.12
Thyroid ^a	2,702	2.91	2.50, 3.38	1.04	0.76, 1.42	1.06	0.91, 1.24
Unadjusted ^b	767	2.32	1.72, 3.13	0.84	0.47, 1.48	1.11	0.91, 1.37
BMI adjusted ^b	767	2.20	1.62, 2.97	0.79	0.44, 1.40	1.04	0.85, 1.29
Corpus Uteri ^a	3016	4.68	4.17, 5.24	1.79	1.43, 2.23	1.79	1.58, 2.02

Unadjusted ^b	814	4.24	3.40, 5.29	1.71	1.16, 2.52	1.91	1.62, 2.25
BMI adjusted ^b	814	3.41	2.73, 4.26	1.33	0.90, 1.97	1.43	1.21, 1.69
Breast Premenopausal ^a	4,083	3.36	2.90, 3.90	1.02	0.72, 1.44	1.02	0.86, 1.20
Unadjusted ^b	813	4.71	3.54, 6.27	1.12	0.58, 2.17	0.99	0.77, 1.27
BMI adjusted ^b	813	5.09	3.80, 6.82	1.22	0.63, 2.35	1.06	0.83, 1.37
Breast Postmenopausal ^a	15,858	2.10	1.98, 2.23	1.14	1.02, 1.26	1.12	1.06, 1.18
Unadjusted ^b	4,664	2.16	1.93, 2.41	1.12	0.94, 1.34	1.27	1.18, 1.36
BMI adjusted ^b	4,664	2.08	1.85, 2.32	1.07	0.90, 1.29	1.21	1.12, 1.30

HR: hazard ratio; CI: confidence interval

^a full analysis: for years 2002-2012

^b analysis for years 2009-2012

Web Table 2: Cox regression models for all site and site-specific cancers, with and without BMI adjustment. Incidence diabetes vs. diabetes-free men

Cancer site	No. events	0-1 year follow-up		1-2 years follow-up		2+ years follow-up	
		HR	95% CI	HR	95% CI	HR	95% CI
All-site ^a	63,799	4.27	4.18, 4.37	1.46	1.39, 1.53	1.33	1.29, 1.36
Unadjusted ^b	16,356	4.34	4.15, 4.54	1.41	1.30, 1.54	1.29	1.24, 1.34
BMI adjusted ^b	16,356	4.40	4.20, 4.60	1.43	1.32, 1.56	1.31	1.26, 1.36
Colon-rectum ^a	9,232	5.90	5.59, 6.24	1.58	1.40, 1.79	1.58	1.47, 1.69
Unadjusted ^b	2,242	5.55	4.95, 6.22	1.71	1.38, 2.12	1.59	1.44, 1.75
BMI adjusted ^b	2,242	5.40	4.81, 6.06	1.66	1.34, 2.06	1.53	1.38, 1.69
Pancreas ^a	1,969	13.88	12.36, 15.57	3.45	2.12, 4.36	2.91	2.52, 3.37
Unadjusted ^b	507	14.46	11.62, 18.00	3.12	2.03, 4.79	2.64	2.11, 3.29
BMI adjusted ^b	507	14.94	11.97, 18.63	3.34	2.11, 4.98	2.75	2.20, 3.45
Kidney ^a	2,485	5.20	4.65, 5.82	1.59	1.26, 2.02	1.48	1.30, 1.69
Unadjusted ^b	703	5.23	4.25, 6.45	1.83	1.26, 2.68	1.42	1.19, 1.71
BMI adjusted ^b	703	4.99	4.04, 6.16	1.74	1.19, 2.54	1.34	1.11, 1.16
Thyroid ^a	833	3.55	2.80, 4.50	1.50	0.97, 2.33	1.25	0.97, 1.61
Unadjusted ^b	244	3.00	1.91, 4.71	1.16	0.51, 2.63	1.46	1.06, 2.00
BMI adjusted ^b	244	2.78	1.77, 4.38	1.07	0.47, 2.43	1.34	0.97, 1.85
Prostate ^a	14,099	1.65	1.55, 1.76	0.93	0.84, 1.03	0.89	0.84, 0.95

Unadjusted ^b	3,879	1.51	1.33, 1.72	0.87	0.72, 1.05	0.89	0.82, 0.96
BMI adjusted ^b	3,879	1.53	1.35, 1.73	0.88	0.73, 1.07	0.90	0.83, 0.97

HR: hazard ratio; CI: confidence interval

^a full analysis: for years 2002-2012

^b analysis for years 2009-2012

Web Table 3: Cox regression models for all site and site-specific cancers, with and without BMI adjustment. Prevalent diabetics and incident diabetes vs. diabetes-free women

Cancer sites	No. events	Incident Diabetes						Prevalent Diabetes	
		0-1 year follow-up		1-2 years follow-up		2+ years follow-up			
		HR	95%	HR	95%	HR	95%	HR	95%
Colon-rectum ^a	9,019	6.33	6.00, 6.70	1.36	1.18, 1.56	1.44	1.33, 1.55	1.48	1.39, 1.57
Unadjusted ^b	2,834	6.62	5.95, 7.35	1.18	0.91, 1.54	1.49	1.35, 1.65	1.37	1.21, 1.55
Smoking adjusted ^b	2,834	6.53	5.87, 7.26	1.16	0.89, 1.52	1.47	1.32, 1.62	1.34	1.19, 1.52
Pancreatic ^a	1,959	15.24	13.60, 17.08	5.37	4.38, 6.58	2.90	2.49, 3.37	3.10	2.72, 3.52
Unadjusted ^b	648	17.44	14.13, 21.53	6.01	4.26, 8.47	3.14	2.52, 3.92	3.23	2.52, 4.13
Smoking adjusted ^b	648	17.11	13.86, 21.12	5.89	4.17, 8.30	3.08	2.47, 3.84	3.18	2.49, 4.07
Kidney ^a	1,456	5.45	4.68, 6.34	1.73	1.26, 2.38	1.58	1.32, 2.90	1.85	1.60, 2.16
Unadjusted ^b	496	7.23	5.55, 9.43	2.84	1.80, 4.50	1.91	1.50, 2.44	2.12	1.60, 2.80
Smoking adjusted ^b	496	7.14	5.48, 9.31	2.80	1.77, 4.44	1.88	1.47, 2.40	2.09	1.58, 2.77
Stomach ^a	1,607	6.68	5.84, 7.64	1.16	0.80, 1.67	1.42	1.18, 1.69	1.90	1.65, 2.19
Unadjusted ^b	561	8.27	6.56, 10.43	1.17	0.62, 2.21	1.44	1.12, 1.84	2.39	1.87, 3.04
Smoking adjusted ^b	561	8.15	6.46, 10.28	1.15	0.61, 2.17	1.41	1.10, 1.81	2.35	1.84, 3.00
Liver ^a	440	8.22	6.28, 10.76	2.02	1.09, 3.73	2.94	2.17, 3.97	3.50	2.74, 4.48
Unadjusted ^b	145	7.59	4.44, 12.99	2.31	0.83, 6.42	2.94	1.88, 4.60	4.66	3.00, 7.24

Smoking adjusted ^b	145	7.26	4.24, 12.43	2.20	0.79, 6.11	2.79	1.78, 4.36	4.45	2.86, 6.92
Lung cancer ^a	3,628	5.77	5.27, 6.31	1.67	1.37, 2.03	1.45	1.30, 1.62	1.30	1.17, 1.44
Unadjusted ^b	1,392	6.83	5.89, 7.93	1.73	1.26, 2.37	1.56	1.35, 1.81	1.17	0.97, 1.42
Smoking adjusted ^b	1,392	6.58	5.67, 7.63	1.67	1.22, 2.29	1.52	1.31, 1.75	1.16	0.95, 1.40
Bladder ^a	1,213	3.01	2.50, 3.62	0.91	0.59, 1.39	1.31	1.08, 1.60	1.16	0.98, 1.37
Unadjusted ^b	325	4.10	2.87, 5.86	0.49	0.16, 1.54	1.71	1.30, 2.26	1.25	0.87, 1.80
Smoking adjusted ^b	325	4.03	2.81, 5.76	0.48	0.15, 1.52	1.70	1.28, 2.24	1.25	0.87, 1.79

HR: hazard ratio; CI: confidence interval

^a full analysis: for years 2002-2012

^b analysis for years 2009-2012

Web Table 4: Cox regression models for all site and site-specific cancers, with and without BMI adjustment. Prevalent diabetics and Incident diabetes vs. diabetes-free men

Cancer sites	No. events	Incident Diabetes						Prevalent Diabetes	
		0-1 year follow-up		1-2 years follow-up		2+ years follow-up			
		HR	95%	HR	95%	HR	95%	HR	95%
Colon-rectum ^a	9,232	5.90	5.59, 6.24	1.58	1.40, 1.79	1.58	1.47, 1.69	1.45	1.37, 1.55
Unadjusted ^b	2,966	6.30	5.67, 7.00	1.83	1.49, 2.25	1.68	1.53, 1.85	1.47	1.31, 1.66
Smoking adjusted ^b	2,966	6.12	5.59, 6.90	1.80	1.46, 2.21	1.64	1.49, 1.80	1.44	1.28, 1.62
Pancreatic ^a	1,969	13.88	12.36, 15.57	3.45	2.12, 4.36	2.91	2.52, 3.37	3.25	2.85, 3.69
Unadjusted ^b	695	16.36	13.35, 20.03	3.12	2.04, 4.77	3.04	2.46, 3.74	3.19	2.51, 4.05
Smoking adjusted ^b	695	15.89	12.97, 19.47	3.01	1.97, 4.60	2.91	2.36, 3.59	3.06	2.41, 3.89
Kidney ^a	2,485	5.20	4.65, 5.82	1.59	1.26, 2.02	1.48	1.30, 1.69	1.51	1.34, 1.71
Unadjusted ^b	889	5.81	4.77, 7.08	1.95	1.34, 2.82	1.59	1.33, 1.89	1.48	1.17, 1.85
Smoking adjusted ^b	889	5.69	4.67, 6.94	1.91	1.31, 2.76	1.55	1.30, 1.85	1.44	1.45, 1.82
Stomach ^a	2,343	6.06	5.43, 6.76	1.79	1.42, 2.25	1.45	1.26, 1.67	1.69	1.50, 1.90
Unadjusted ^b	809	6.78	5.58, 8.23	2.26	1.58, 3.23	1.41	1.16, 1.71	1.49	1.18, 1.86
Smoking adjusted ^b	809	6.49	5.34, 7.89	2.15	1.51, 3.08	1.33	1.10, 1.62	1.41	1.12, 1.77
Liver ^a	807	7.34	6.05, 8.91	2.85	1.99, 4.09	2.27	1.80, 2.86)	3.00	2.49, 3.61
Unadjusted ^b	254	10.10	7.04, 14.48	3.34	1.77, 6.27	2.70	1.93, 3.78	3.34	2.31, 4.43

Smoking adjusted ^b	254	9.49	6.62, 13.62	3.10	1.65, 5.83	2.49	1.78, 3.48	3.08	2.13, 4.45
Lung cancer ^a	7,294	5.61	2.28, 5.97	1.64	1.44, 1.87	1.19	1.10, 1.29	1.26	1.17, 1.35
Unadjusted ^b	2,570	6.84	6.15, 7.62	2.05	1.67, 2.51	1.34	1.21, 1.49	1.31	1.15, 1.49
Smoking adjusted ^b	2,570	6.30	5.66, 7.01	1.88	1.53, 2.30	1.23	1.10, 1.36	1.21	1.07, 1.38
Bladder ^a	5,367	3.05	2.80, 3.32	1.40	1.20, 1.63	1.25	1.14, 1.37	1.27	1.18, 1.38
Unadjusted ^b	1,496	4.21	3.59, 4.95	1.24	0.89, 1.72	1.37	1.20, 1.56	1.45	1.24, 1.69
Smoking adjusted ^b	1,496	4.12	3.51, 4.85	1.22	0.88, 1.69	1.35	1.18, 1.54	1.44	1.23, 1.69

HR: hazard ratio; CI: confidence interval

^a full analysis: for years 2002-2012

^b analysis for years 2009-2012