

Supplementary Table 2. Incidence rate ratio of malignancy in patients with type 2 diabetes mellitus: DM group vs. non-DM group

Outcome	DM		Non-DM		IRR (95% CI)	P value
	Event	Person-year	Event	Person-year		
Total						
All cancers	505	31,933	135	14,791	1.733 (1.433–2.095)	<0.001
Lip	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Tongue	0	33,791	1	15,139	0.149 (0.006–3.666)	0.244
Oral cavity	0	33,791	1	15,136	0.149 (0.006–3.665)	0.244
Salivary gland	0	33,791	1	15,139	0.149 (0.006–3.666)	0.244
Tonsil	1	33,789	0	15,139	1.344 (0.055–32.995)	0.856
Oropharynx	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Nasopharynx	0	33,791	1	15,137	0.149 (0.006–3.665)	0.244
Hypopharynx	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Esophagus	3	33,787	0	15,139	3.137 (0.162–60.722)	0.450
Stomach	51	33,594	19	15,106	1.207 (0.713–2.044)	0.484
Small intestine	3	33,785	1	15,138	1.344 (0.140–12.922)	0.798
Colon	59	33,564	18	15,083	1.473 (0.869–2.497)	0.150
Anus	0	33,791	1	15,137	0.149 (0.006–3.665)	0.244
Liver	73	33,542	16	15,085	2.052 (1.195–3.525)	0.009
Gallbladder and biliary tract	23	33,706	2	15,132	5.163 (1.217–21.897)	0.026
Pancreas	66	33,607	1	15,138	29.729 (4.126–214.191)	0.001
Nasal cavity	1	33,785	0	15,139	1.344 (0.055–32.999)	0.856
Larynx	0	33,791	1	15,133	0.149 (0.006–3.664)	0.244
Lung	37	33,687	16	15,104	1.037 (0.577–1.864)	0.904
Mediastinum and pleura	1	33,790	1	15,137	0.448 (0.028–7.162)	0.570
Bone and cartilage	2	33,789	0	15,139	2.240 (0.108–46.662)	0.603
Melanoma of skin	2	33,789	1	15,138	0.896 (0.081–9.882)	0.929
Mesothelioma	0	33,789	0	15,139	0.448 (0.009–22.580)	0.688
Kaposi's sarcoma	0	33,790	0	15,139	0.448 (0.009–22.579)	0.688
Breast	42	33,647	8	15,122	2.360 (1.108–5.026)	0.026
Vulva	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Vagina	1	33,788	0	15,139	1.344 (0.055–32.996)	0.856
Cervix uteri	7	33,766	2	15,135	1.569 (0.326–7.552)	0.574
Corpus uteri	29	33,698	5	15,127	2.604 (1.008–6.726)	0.048
Ovary	24	33,717	4	15,126	2.692 (0.934–7.757)	0.067
Penis	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Prostate	42	33,645	7	15,116	2.696 (1.211–6.000)	0.015
Testis	1	33,789	0	15,139	1.344 (0.055–32.995)	0.856
Kidney	20	33,712	1	15,137	8.980 (1.205–66.912)	0.032
Renal pelvis	1	33,786	1	15,134	0.448 (0.028–7.161)	0.570
Ureter	1	33,787	0	15,139	1.344 (0.055–32.997)	0.856

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Supplementary Table 2. Continued

Outcome	DM		Non-DM		IRR (95% CI)	P value
	Event	Person-year	Event	Person-year		
Bladder	18	33,729	2	15,134	4.038 (0.937–17.403)	0.061
Brain and CNS	5	33,784	2	15,139	1.120 (0.217–5.774)	0.892
Thyroid	60	33,518	23	15,081	1.174 (0.726–1.898)	0.514
Medullary thyroid cancer	4	33,763	1	15,137	1.793 (0.200–16.044)	0.601
Adrenal	0	33,791	1	15,138	0.149 (0.006–3.666)	0.244
Hodgkin lymphoma	0	33,791	0	15,139	0.448 (0.009–22.578)	0.688
Non-Hodgkin lymphoma	5	33,774	1	15,137	2.241 (0.262–19.181)	0.461
Myeloma	7	33,776	2	15,133	1.568 (0.326–7.549)	0.575
Lymphoid leukemia	2	33,791	0	15,139	2.240 (0.108–46.660)	0.603
Myeloid leukemia	5	33,767	0	15,139	4.932 (0.273–89.187)	0.280
Male						
All cancers	217	13,443	56	6,768	1.951 (1.454–2.617)	<0.001
Lip	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Tongue	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Oral cavity	0	14,159	1	6,904	0.163 (0.007–3.990)	0.266
Salivary gland	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Tonsil	1	14,157	0	6,907	1.464 (0.060–35.931)	0.816
Oropharynx	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Nasopharynx	0	14,159	1	6,906	0.163 (0.007–3.991)	0.266
Hypopharynx	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Esophagus	2	14,155	0	6,907	2.440 (0.117–50.820)	0.565
Stomach	28	14,078	11	6,889	1.246 (0.620–2.502)	0.537
Small intestine	1	14,154	0	6,907	1.464 (0.060–35.937)	0.815
Colon	23	14,078	6	6,888	1.875 (0.764–4.606)	0.170
Anus	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Liver	36	14,042	7	6,886	2.522 (1.122–5.667)	0.025
Gallbladder and biliary tract	9	14,128	2	6,900	2.198 (0.475–10.172)	0.314
Pancreas	34	14,083	0	6,907	33.843 (2.075–552.001)	0.013
Nasal cavity	1	14,153	0	6,907	1.464 (0.060–35.940)	0.815
Larynx	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Lung	28	14,097	10	6,891	1.369 (0.665–2.818)	0.394
Mediastinum and pleura	1	14,158	0	6,907	1.464 (0.060–35.926)	0.816
Bone and cartilage	1	14,158	0	6,907	1.464 (0.060–35.927)	0.816
Melanoma of skin	0	14,159	1	6,906	0.163 (0.007–3.991)	0.266
Mesothelioma	1	14,157	0	6,907	1.464 (0.060–35.931)	0.816
Kaposi's sarcoma	1	14,158	0	6,907	1.464 (0.060–35.928)	0.816
Breast	1	14,150	0	6,907	1.464 (0.060–35.946)	0.815
Vulva	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720

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Supplementary Table 2. Continued

Outcome	DM		Non-DM		IRR (95% CI)	P value
	Event	Person-year	Event	Person-year		
Vagina	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Cervix uteri	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Corpus uteri	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Ovary	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Penis	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Prostate	42	14,012	7	6,885	2.948 (1.324–6.562)	0.008
Testis	1	14,157	0	6,907	1.464 (0.060–35.931)	0.816
Kidney	9	14,123	1	6,905	4.400 (0.557–34.731)	0.160
Renal pelvis	1	14,154	0	6,907	1.464 (0.060–35.939)	0.815
Ureter	1	14,155	0	6,907	1.464 (0.060–35.935)	0.815
Bladder	12	14,119	0	6,907	12.230 (0.724–206.568)	0.083
Brain and CNS	1	14,159	0	6,907	1.464 (0.060–35.926)	0.816
Thyroid	13	14,110	7	6,888	0.907 (0.362–2.272)	0.834
Medullary thyroid cancer	1	14,154	0	6,907	1.464 (0.060–35.939)	0.815
Adrenal	0	14,159	1	6,907	0.163 (0.007–3.991)	0.266
Hodgkin lymphoma	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Non-Hodgkin lymphoma	1	14,156	0	6,907	1.464 (0.060–35.933)	0.815
Myeloma	4	14,151	1	6,904	1.952 (0.218–17.461)	0.550
Lymphoid leukemia	0	14,159	0	6,907	0.488 (0.010–24.585)	0.720
Myeloid leukemia	1	14,150	0	6,907	1.464 (0.060–35.949)	0.815
Female						
All cancers	288	18,490	79	8,023	1.582 (1.233–2.029)	<0.001
Lip	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Tongue	0	19,632	1	8,232	0.140 (0.006–3.431)	0.228
Oral cavity	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Salivary gland	0	19,632	1	8,232	0.140 (0.006–3.431)	0.228
Tonsil	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Oropharynx	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Nasopharynx	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Hypopharynx	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Esophagus	1	19,631	0	8,232	1.258 (0.051–30.879)	0.888
Stomach	23	19,516	8	8,218	1.211 (0.542–2.706)	0.642
Small intestine	2	19,631	1	8,231	0.839 (0.076–9.248)	0.886
Colon	36	19,486	12	8,196	1.262 (0.657–2.425)	0.485
Anus	0	19,632	1	8,230	0.140 (0.006–3.430)	0.228
Liver	37	19,500	9	8,198	1.728 (0.834–3.581)	0.141
Gallbladder and biliary tract	14	19,578	0	8,232	12.193 (0.727–204.397)	0.082
Pancreas	32	19,525	1	8,231	13.490 (1.843–98.719)	0.010

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Supplementary Table 2. Continued

Outcome	DM		Non-DM		IRR (95% CI)	P value
	Event	Person-year	Event	Person-year		
Nasal cavity	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Larynx	0	19,632	1	8,226	0.140 (0.006–3.429)	0.228
Lung	9	19,590	6	8,213	0.629 (0.224–1.767)	0.379
Mediastinum and pleura	1	19,631	1	8,230	0.419 (0.026–6.702)	0.539
Bone and cartilage	1	19,631	0	8,232	1.258 (0.051–30.880)	0.888
Melanoma of skin	1	19,630	0	8,232	1.258 (0.051–30.882)	0.888
Mesothelioma	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Kaposi's sarcoma	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Breast	41	19,496	8	8,215	2.159 (1.012–4.606)	0.046
Vulva	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Vagina	1	19,629	0	8,232	1.258 (0.051–30.883)	0.888
Cervix uteri	7	19,607	2	8,227	1.469 (0.305–7.070)	0.632
Corpus uteri	29	19,539	5	8,220	2.440 (0.945–6.304)	0.065
Ovary	24	19,558	4	8,219	2.521 (0.875–7.267)	0.087
Penis	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Prostate	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Testis	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Kidney	11	19,589	0	8,232	9.665 (0.570–164.016)	0.116
Renal pelvis	0	19,632	1	8,227	0.140 (0.006–3.429)	0.228
Ureter	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Bladder	6	19,610	2	8,227	1.259 (0.254–6.235)	0.778
Brain and CNS	4	19,626	2	8,231	0.839 (0.154–4.580)	0.839
Thyroid	47	19,409	16	8,193	1.240 (0.703–2.187)	0.457
Medullary thyroid cancer	3	19,610	1	8,229	1.259 (0.131–12.103)	0.842
Adrenal	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Hodgkin lymphoma	0	19,632	0	8,232	0.419 (0.008–21.131)	0.664
Non-Hodgkin lymphoma	4	19,618	1	8,230	1.678 (0.188–15.013)	0.643
Myeloma	3	19,625	1	8,229	1.258 (0.131–12.093)	0.843
Lymphoid leukemia	2	19,632	0	8,232	2.097 (0.101–43.670)	0.633
Myeloid leukemia	4	19,618	0	8,232	3.777 (0.203–70.143)	0.373

DM, diabetes mellitus; IRR, incidence rate ratio; CI, confidence interval; CNS, central nervous system.