

Table S1. Analysis by cancer site in the PolSCa study is based on the International Statistical Classification of Diseases and Related Health Problems 10th revision (ICD-10). Some site codes were combined to provide data comparable with the previous literature. For the reader's convenience, all sites appearing under the specific ICD-10 codes are listed under one collective name - label.

ICD-10 code	Sites included	Label
C00-C14 + C30	Lip, oral cavity, pharynx, nasal cavity, and middle ear	Head and neck
C15	Esophagus	Esophagus
C16	Stomach	Stomach
C17	Small intestine	Small intestine
C18-C20	Colon, rectosigmoid junction, rectum	Colorectum
C21	Anus and anal canal	Anus
C22-24	Liver, intrahepatic bile ducts, gallbladder, biliary tract	Liver and gallbladder
C25	Pancreas	Pancreas
C32	Larynx	Larynx
C33	Trachea	Trachea
C34	Bronchus and lung	Lung
C37	Thymus	Thymus
C38	Heart, mediastinum, and pleura	Heart and pleura
C40	Bone and articular cartilage of limbs	Appendicular skeleton
C41	Bone and articular cartilage of other and unspecified sites	Axial skeleton
C43	Malignant melanoma of skin	Melanoma
C45-C49	Mesothelial and soft tissue	Soft tissues
C50	Breast	Breast
C51-C52	Vulva and vagina	Vulva and vagina
C53	Cervix uteri	Cervix uteri
C54-C55	Corpus uteri and uterus unspecified part	Corpus uteri
C56	Ovary	Ovary
C60	Penis	Penis
C61	Prostate	Prostate
C62	Testis	Testis
C64	Kidney, except renal pelvis	Kidney
C65-C67	Renal pelvis, ureter, and bladder	Bladder
C69-C72	Eye, brain, and other parts of central nervous system	Central nervous system
C73	Thyroid gland	Thyroid
C74	Adrenal gland	Adrenal gland
C76, C80	Other and ill-defined sites and unspecified sites	Unspecified site
C81-C88	Lymphoma	Lymphoma
C90	Multiple myeloma and malignant plasma cell neoplasms	Multiple myeloma
C91-C96	Leukemia	Leukemia

Table S2. Characteristics of the study population.

ICD-10	Site	Number of persons under follow-up			Person-years under risk of suicide			Age at diagnosis, mean (SD)			Number of suicides		
		Overall	Men	Women	Overall	Men	Women	Overall	Men	Women	Overall	Men	Women
	All cancers*	1 426 661	717 144	709 517	3 627 793	1 622 638	2 005 155	64.1 (12.1)	65.1 (12.2)	63.0 (13.8)	830	683	147
C00-C14 + C30	Head and neck	43 136	30 876	12 260	95 596	63 816	31 780	61.8 (11.9)	61.1 (11.0)	63.5 (13.7)	49	47	2
C15	Esophagus	13 799	10 843	2 956	13 494	10 099	3 395	64.2 (10.6)	63.4 (10.0)	66.9 (12.1)	11	10	1
C16	Stomach	53 144	34 001	19 143	80 512	49 036	31 476	67.0 (12.1)	66.4 (11.5)	67.9 (13.1)	49	46	3
C17	Small intestine	3 212	1 657	1 555	7 962	4 093	3 869	63.4 (12.8)	62.3 (12.5)	64.7 (13.1)	2	2	0
C18-C20	Colorectum	178 267	99 329	78 938	461 416	250 212	211 205	67.6 (11.4)	67.1 (10.9)	68.3 (12.0)	134	121	13
C21	Anus	2 785	888	1 897	7 290	2 008	5 282	64.8 (12.2)	62.9 (12.5)	65.7 (12.0)	2	1	1
C22-24	Liver and gallbladder	28 362	12 693	15 669	32 707	14 544	18 163	67.7 (11.6)	66.0 (11.3)	69.1 (11.6)	8	7	1
C25	Pancreas	33 440	16 477	16 963	29 050	13 838	15 212	66.5 (11.4)	64.6 (10.8)	68.4 (11.6)	10	9	1
C32	Larynx	23 362	20 238	3 124	64 060	54 629	9 431	63.0 (9.3)	63.1 (9.3)	62.8 (9.5)	28	24	4
C33	Trachea	308	185	123	475	248	227	62.9 (11.7)	63.4 (10.8)	62.2 (12.9)	0	0	0
C34	Lung	210 584	140 184	70 400	265 661	167 877	97 784	66.0 (9.5)	66.2 (9.4)	65.7 (9.7)	100	89	11
C37	Thymus	790	373	417	2 341	1 100	1 241	57.0 (14.1)	55.4 (14.3)	58.4 (13.7)	0	0	0
C38	Heart and pleura	1 428	846	582	2 261	1 283	978	63.5 (16.2)	61.7 (16.5)	66.1 (15.4)	2	2	0
C40	Bone – limbs	1 472	823	649	5 044	2 682	2 362	45.4 (20.7)	43.4 (20.2)	48.0 (21.1)	0	0	0
C41	Bone – axial skeleton	1 770	924	846	4 691	2 219	2 472	53.0 (19.7)	52.8 (19.2)	53.3 (20.3)	1	1	0
C43	Melanoma	34 653	16 172	18 481	107 060	46 248	60 812	60.1 (16.4)	61.1 (15.3)	59.3 (17.3)	18	17	1
C45-C49	Soft tissues	13 272	7 162	6 110	30 647	15 470	15 177	60.4 (16.3)	59.9 (16.3)	60.9 (16.4)	6	6	0
C50	Breast	187 919	1 371	186 548	680 682	4 053	676 629	60.6 (13.0)	65.9 (11.8)	60.5 (13.0)	48	1	47
C51-C52	Vulva and vagina	6 433	-	6 433	15 393	-	15 393	70.4 (12.4)	-	70.4 (12.4)	3	-	3

ICD-10	Site	Number of persons under follow-up			Person-years under risk of suicide			Age at diagnosis, mean (SD)			Number of suicides		
		Overall	Men	Women	Overall	Men	Women	Overall	Men	Women	Overall	Men	Women
C53	Cervix uteri	28 903	-	28 903	90 365	-	90 365	57.1 (13.7)	-	57.1 (13.7)	10	-	10
C54-C55	Corpus uteri	61 037	-	61 037	215 944	-	215 944	64.1 (10.8)	-	64.1 (10.8)	12	-	12
C56	Ovary	37 976	-	37 976	102 438	-	102 438	60.1 (13.5)	-	60.1 (13.5)	8	-	8
C60	Penis	2 549	2 549	-	6 929	6 929	-	64.8 (12.7)	64.8 (12.7)	-	2	2	-
C61	Prostate	142 079	142 079	-	432 193	432 193	-	69.0 (8.4)	69.0 (8.4)	-	133	133	-
C62	Testis	12 193	12 193	-	51 221	51 221	-	34.6 (11.7)	34.6 (11.7)	-	18	18	-
C64	Kidney	51 349	30 915	20 434	155 159	89 332	65 826	63.9 (11.6)	63.0 (11.2)	65.4 (11.9)	32	27	5
C65-C67	Bladder	74 785	56 193	18 592	206 075	153 743	52 332	68.5 (10.9)	68.5 (10.7)	68.3 (11.5)	63	61	2
C69-C72	Central nervous system	32 663	16 364	16 299	65 452	31 039	34 413	58.6 (16.1)	57.1 (15.8)	60.2 (16.3)	11	9	2
C73	Thyroid gland	34 448	5 800	28 648	123 578	19 403	104 176	49.9 (15.6)	51.9 (15.8)	49.5 (15.5)	8	2	6
C74	Adrenal gland	1 072	479	593	2 935	1 124	1 811	59.0 (15.2)	59.0 (15.0)	58.9 (15.5)	0	0	0
C76, C80	Unspecified site	16 663	8 205	8 458	16 217	7 556	8 662	68.3 (12.8)	66.2 (12.2)	70.5 (13.1)	10	8	2
C81-C88	Lymphoma	38 841	19 466	19 375	119 243	58 128	61 115	58.3 (18.4)	57.5 (17.9)	59.1 (18.8)	23	14	9
C90	Multiple myeloma	15 477	7 294	8 183	36 408	16 606	19 802	66.9 (11.1)	65.8 (11.2)	67.9 (10.9)	11	9	2
C91-C96	Leukemia	32 611	17 957	14 654	85 566	46 764	38 802	64.3 (15.5)	63.1 (15.4)	65.9 (15.4)	18	17	1

* All primary malignant neoplasms except non-melanoma skin cancers (C00-C43, C45-C76, C80-C96 according to the ICD-10).

Table S3. Mechanism of suicide among patients with cancer by sex – Poland, 2009-2019.

ICD 10 code and mechanism of suicide	Overall	Men	Women
X60. Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics	0.11%	0.00%	0.63%
X61. Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified	0.33%	0.26%	0.63%
X64. Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances	0.65%	0.00%	3.75%
X65. Intentional self-poisoning by and exposure to alcohol	2.94%	3.16%	1.88%
X67. Intentional self-poisoning by and exposure to carbon monoxide and other gases and vapours	0.22%	0.13%	0.63%
X69. Intentional self-poisoning by and exposure to other and unspecified chemicals and noxious substances	0.11%	0.13%	0.00%
X70. Intentional self-harm by hanging, strangulation and suffocation	84.55%	86.69%	74.38%
X71. Intentional self-harm by drowning and submersion	0.87%	0.66%	1.88%
X72. Intentional self-harm by handgun discharge	0.76%	0.92%	0.00%
X73. Intentional self-harm by rifle, shotgun and larger firearm discharge	0.44%	0.40%	0.63%
X74. Intentional self-harm by other and unspecified firearm discharge	0.44%	0.53%	0.00%
X75. Intentional self-harm by explosive material	0.11%	0.13%	0.00%
X78. Intentional self-harm by sharp object	2.39%	2.24%	3.13%
X79. Intentional self-harm by blunt object	0.11%	0.00%	0.63%
X80. Intentional self-harm by jumping from a high place	4.90%	4.08%	8.75%
X81. Intentional self-harm by jumping or lying before moving object	0.44%	0.13%	1.88%
X83. Intentional self-harm by other specified means	0.22%	0.13%	0.63%
X84. Intentional self-harm by unspecified means	0.44%	0.40%	0.63%