

Supplemental Information

Number of Table: 4

S1 Table. Search terms utilized for identifying cancer subtypes for Cohort 1: Cancer and Ischemic Stroke cohort

- Carcinoma in situ of breast
- Carcinoma in situ of cervix uteri
- Carcinoma in situ of middle ear and respiratory system
- Carcinoma in situ of oral cavity, oesophagus and stomach
- Carcinoma in situ of other and unspecified digestive organs
- Carcinoma in situ of other and unspecified genital organs
- Carcinoma in situ of other and unspecified sites
- Malignant immunoproliferative diseases
- Malignant neoplasm of accessory sinuses
- Malignant neoplasm of adrenal gland
- Malignant neoplasm of anus and anal canal
- Malignant neoplasm of base of tongue
- Malignant neoplasm of bladder
- Malignant neoplasm of bone and articular cartilage of limbs
- Malignant neoplasm of bone and articular cartilage of other and unspecified sites
- Malignant neoplasm of breast
- Malignant neoplasm of bronchus and lung
- Malignant neoplasm of cervix uteri
- Malignant neoplasm of colon
- Malignant neoplasm of corpus uteri
- Malignant neoplasm of eye and adnexa
- Malignant neoplasm of floor of mouth
- Malignant neoplasm of gallbladder
- Malignant neoplasm of gum
- Malignant neoplasm of heart, mediastinum and pleura
- Malignant neoplasm of hypopharynx
- Malignant neoplasm of kidney, except renal pelvis
- Malignant neoplasm of larynx
- Malignant neoplasm of lip
- Malignant neoplasm of liver and intrahepatic bile ducts
- Malignant neoplasm of nasal cavity and middle ear
- Malignant neoplasm of nasopharynx
- Malignant neoplasm of oesophagus
- Malignant neoplasm of oropharynx
- Malignant neoplasm of other and ill-defined digestive organs
- Malignant neoplasm of other and ill-defined sites
- Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx
- Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs

- Malignant neoplasm of other and unspecified female genital organs
- Malignant neoplasm of other and unspecified major salivary glands
- Malignant neoplasm of other and unspecified male genital organs
- Malignant neoplasm of other and unspecified parts of biliary tract
- Malignant neoplasm of other and unspecified parts of mouth
- Malignant neoplasm of other and unspecified parts of tongue
- Malignant neoplasm of other and unspecified urinary organs
- Malignant neoplasm of other connective and soft tissue
- Malignant neoplasm of other endocrine glands and related structures
- Malignant neoplasm of ovary
- Malignant neoplasm of palate
- Malignant neoplasm of pancreas
- Malignant neoplasm of parotid gland
- Malignant neoplasm of penis
- Malignant neoplasm of peripheral nerves and autonomic nervous system
- Malignant neoplasm of placenta
- Malignant neoplasm of prostate
- Malignant neoplasm of pyriform sinus
- Malignant neoplasm of rectosigmoid junction
- Malignant neoplasm of rectum
- Malignant neoplasm of renal pelvis
- Malignant neoplasm of retroperitoneum and peritoneum
- Malignant neoplasm of small intestine
- Malignant neoplasm of stomach
- Malignant neoplasm of testis
- Malignant neoplasm of thymus
- Malignant neoplasm of thyroid gland
- Malignant neoplasm of tonsil
- Malignant neoplasm of trachea
- Malignant neoplasm of ureter
- Malignant neoplasm of uterus, part unspecified
- Malignant neoplasm of vagina
- Malignant neoplasm of vulva
- Malignant neoplasm without specification of site
- Malignant neoplasms of independent (primary) multiple sites
- Multiple myeloma and malignant plasma cell neoplasms
- Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue
- Secondary and unspecified malignant neoplasm of lymph nodes
- Secondary malignant neoplasm of other and unspecified sites
- Secondary malignant neoplasm of respiratory and digestive organs

S2 Table. Distribution of the types of cancer in synthetic cohort #1: ischemic stroke patients with cancer

Cancer Type	Frequency	Percentage
Lung	242	18.98%
Secondary malignancies	183	14.35%
Colorectal	152	11.92%
Bladder	95	7.45%
Immunoproliferative disease	87	6.82%
Censored	80	6.27%
Unspecified	79	6.20%
Prostate	78	6.12%
Esophageal + upper GI	56	4.39%
Breast	49	3.84%
Pancreatic	43	3.37%
Urogynecologic	38	2.98%
Kidney	30	2.35%
Head and neck cancer	22	1.73%
Bone and cartilage	18	1.41%
Hepatobiliary	14	1.10%
Melanoma	9	0.71%

S3 Table. List of codes used to select patients with ischemic stroke using the International Classification of Diseases (ICD) 10th revision.

	ICD-10 coding
Ischemic Stroke	I63.00, I63.01x, I63.02, I63.03x, I63.09, I63.10, I63.11x, I63.12, I63.13x, I63.19, I63.20, I63.21x, I63.22, I63.23x, I63.29, I63.30, I63.31x, I63.32x, I63.33x, I63.34x, I63.39, I63.40, I63.41x, I63.42x, I63.43x, I63.44x, I63.49, I63.50, I63.51x, I63.52x, I63.53x, I63.54x, I63.59, I63.6, I63.8, I63.9

S4 Table. Inflation-adjusted median costs per year for the cancer and stroke (A) and no cancer and stroke cohorts (B)

YEAR	ORIGINAL MEDIAN VALUES	INFLATION- ADJUSTED MEDIAN EQUIVALENT (2022)	ORIGINAL MEAN VALUES	INFLATION- ADJUSTED MEAN EQUIVALENT (2022)
2005	\$7,505.24	\$10,605.54	\$7,505.24	\$10,605.54
2006	\$8,176.14	\$11,331.19	\$9,436.24	\$13,077.53
2007	\$5,874.77	\$7,966.50	\$9,587.93	\$13,001.74
2008	\$6,782.39	\$8,964.14	\$14,693.58	\$19,420.19
2009	N/A	N/A	N/A	N/A
2010	\$16,383.30	\$21,263.13	\$27,625.31	\$35,853.62
2011	\$4,750.74	\$5,990.92	\$6,107.72	\$7,702.14
2012	\$11,219.45	\$13,939.04	\$15,661.87	\$19,458.30
2013	\$10,212.74	\$12,574.64	\$17,707.16	\$21,802.30
2014	\$4,314.73	\$5,210.76	\$9,630.88	\$11,630.91
2015	\$19,823.37	\$23,675.30	\$18,557.10	\$22,162.98
2016	\$13,911.32	\$16,381.55	\$19,929.50	\$23,468.39
2017	\$11,185.63	\$12,969.84	\$25,279.86	\$29,312.23
2018	\$10,475.83	\$11,873.65	\$20,952.13	\$23,747.84
2019	\$9,946.43	\$11,058.09	\$11,728.51	\$13,039.34
TOTAL			\$15,314.50	\$ 20,686.29

YEAR	ORIGINAL MEDIAN VALUES	INFLATION- ADJUSTED MEDIAN EQUIVALENT (2022)	ORIGINAL MEAN VALUES	INFLATION- ADJUSTED MEAN EQUIVALENT (2022)
2005	6068.76	8575.66	\$15,701.71	\$ 22,187.83
2006	5467.975	7577.98	\$15,865.69	\$ 21,988.01
2007	10218.88	13857.35	\$18,059.32	\$ 24,489.41
2008	9238.21	12242.04	\$16,688.15	\$ 22,114.36
2009	7389.82	9766.96	\$12,792.01	\$ 16,906.92

2010	10752.98	13955.80	\$16,648.83	\$ 21,607.75
2011	6746.39	8507.541	\$11,254.43	\$ 14,192.41
2012	8160.92	10139.12	\$15,893.87	\$ 19,746.54
2013	7719.48	9504.77	\$11,372.40	\$ 14,002.50
2014	8745.705	10561.91	\$14,551.89	\$ 17,573.85
2015	9061.67	10822.47	\$14,370.74	\$ 17,163.16
2016	8646.61	10181.99	\$14,221.18	\$ 16,746.44
2017	8278.39	9598.87	\$15,960.06	\$ 18,505.83
2018	6627.9	7512.28	\$13,569.72	\$ 15,380.37
2019	7099.4	7892.86	\$9,211.71	\$ 10,241.25
TOTAL			\$14,410.78	\$17,295.31