

Supporting Table S2 . Significantly associated diseases with Kaposi sarcoma, compared to the PTSD control cohort (FDR < 0.05). If there are no patients with a diagnosis code in the control groups, odds ratio is not calculated (i.e. N/A).

| ICD-9 | Description | Odds ratio | P-value | FDR |
|--------|---|------------|---------|--------|
| 042 | Human immunodeficiency virus (hiv) disease | 10.18 | <0.001 | <0.001 |
| 112.0 | Candidiasis of mouth | 15.94 | <0.001 | <0.001 |
| 162.9 | Malignant neoplasm of bronchus and lung unspecified | N/A | <0.001 | <0.001 |
| 171.0 | Malignant neoplasm of connective and other soft tissue of head face and neck | N/A | <0.001 | <0.001 |
| 171.6 | Malignant neoplasm of connective and other soft tissue of pelvis | N/A | <0.001 | <0.001 |
| 171.9 | Malignant neoplasm of connective and other soft tissue site unspecified | N/A | <0.001 | <0.001 |
| 174.8 | Malignant neoplasm of other specified sites of female breast | 40.57 | <0.001 | <0.001 |
| 174.9 | Malignant neoplasm of breast (female) unspecified site | 20.87 | <0.001 | <0.001 |
| 176.0 | Kaposi's sarcoma skin | N/A | <0.001 | <0.001 |
| 176.1 | Kaposi's sarcoma soft tissue | N/A | <0.001 | <0.001 |
| 176.4 | Kaposi's sarcoma lung | N/A | <0.001 | <0.001 |
| 176.8 | Kaposi's sarcoma other specified sites | N/A | <0.001 | <0.001 |
| 179 | Malignant neoplasm of uterus-part unspecified | N/A | <0.001 | <0.001 |
| 182.0 | Malignant neoplasm of corpus uteri except isthmus | 75.35 | <0.001 | <0.001 |
| 183.0 | Malignant neoplasm of ovary | N/A | <0.001 | <0.001 |
| 197.0 | Secondary malignant neoplasm of lung | 63.76 | <0.001 | <0.001 |
| 197.6 | Secondary malignant neoplasm of retroperitoneum and peritoneum | N/A | <0.001 | <0.001 |
| 197.7 | Malignant neoplasm of liver secondary | 38.64 | <0.001 | <0.001 |
| 198.5 | Secondary malignant neoplasm of bone and bone marrow | 21.74 | <0.001 | <0.001 |
| 198.89 | Secondary malignant neoplasm of other specified sites | 92.74 | <0.001 | <0.001 |
| 199.1 | Other malignant neoplasm of unspecified site | 25.60 | <0.001 | <0.001 |
| 284.8 | Other specified aplastic anemias | 17.39 | <0.001 | <0.001 |
| 285.1 | Acute posthemorrhagic anemia | 13.25 | <0.001 | <0.001 |
| 285.9 | Anemia unspecified | 3.15 | <0.001 | <0.001 |
| 287.5 | Thrombocytopenia unspecified | 5.58 | <0.001 | <0.001 |
| 288.0 | Agranulocytosis | 52.17 | <0.001 | <0.001 |
| 288.9 | Unspecified disease of white blood cells | N/A | <0.001 | <0.001 |
| 486 | Pneumonia organism unspecified | 3.44 | <0.001 | <0.001 |
| 584.9 | Acute renal failure unspecified | 3.76 | <0.001 | <0.001 |
| 614.6 | Pelvic peritoneal adhesions female (postoperative) (postinfection) | 37.68 | <0.001 | <0.001 |
| 707.03 | Chronic ulcer of skin, lower back | 63.76 | <0.001 | <0.001 |
| 780.6 | Fever and other physiologic disturbances of temperature regulation | 3.08 | <0.001 | <0.001 |
| 799.4 | Cachexia | 14.49 | <0.001 | <0.001 |
| 136.3 | Pneumocystosis | 31.88 | <0.001 | <0.001 |
| 158.0 | Malignant neoplasm of retroperitoneum | N/A | <0.001 | <0.001 |
| 176.3 | Kaposi's sarcoma gastrointestinal sites | N/A | <0.001 | <0.001 |
| 176.5 | Kaposi's sarcoma lymph nodes | N/A | <0.001 | <0.001 |
| 197.2 | Secondary malignant neoplasm of pleura | N/A | <0.001 | <0.001 |
| 288.00 | Neutropenia, unspecified | 16.23 | <0.001 | <0.001 |
| 233.0 | Carcinoma in situ of breast | 21.25 | <0.001 | <0.001 |
| 262 | Other severe protein-calorie malnutrition | 21.25 | <0.001 | <0.001 |
| 038.9 | Unspecified septicemia | 7.04 | <0.001 | <0.001 |
| 518.81 | Acute respiratory failure | 5.52 | <0.001 | <0.001 |
| 200.18 | Lymphosarcoma involving lymph nodes of multiple sites | N/A | <0.001 | <0.001 |
| 789.30 | Abdominal or pelvic swelling mass or lump unspecified site | 13.91 | <0.001 | <0.001 |
| 284.89 | Red cell aplasia (acquired)(adult) (with thymoma) | 52.17 | <0.001 | <0.001 |
| 783.7 | Adult failure to thrive | 26.08 | <0.001 | <0.001 |
| 182.8 | Malignant neoplasm of other specified sites of body of uterus | N/A | <0.001 | <0.001 |
| 173.8 | Other malignant neoplasm of other specified sites of skin | 46.37 | <0.001 | <0.001 |
| 282.60 | Sickle-cell disease unspecified | 4.59 | <0.001 | <0.001 |
| 585.9 | Chronic kidney disease, unspecified | 4.06 | <0.001 | <0.001 |
| 276.1 | Hyposmolality and/or hyponatremia | 4.14 | <0.001 | <0.001 |
| 785.52 | Septic shock | 11.59 | <0.001 | <0.001 |
| 995.91 | Systemic inflammatory response syndrome due to infectious process without organ dysfunction | 7.73 | <0.001 | <0.001 |
| 174.4 | Malignant neoplasm of upper-outer quadrant of female breast | 23.19 | <0.001 | <0.001 |

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| ICD-9 | Description | Odds ratio | P-value | FDR |
|--------|---|------------|---------|--------|
| 996.62 | “Infection and inflammatory reaction due vascular device, implant and graft” | 23.19 | <0.001 | <0.001 |
| 682.2 | Cellulitis and abscess of trunk | 9.11 | <0.001 | <0.001 |
| 995.92 | Systemic inflammatory response syndrome due to infectious process with organ dysfunction | 9.11 | <0.001 | <0.001 |
| 159.0 | Malignant neoplasm of intestinal tract part unspecified | N/A | <0.001 | <0.001 |
| 171.8 | Malignant neoplasm of other specified sites of connective and other soft tissue | N/A | <0.001 | <0.001 |
| 174.0 | Malignant neoplasm of nipple and areola of female breast | N/A | <0.001 | <0.001 |
| 176.2 | Kaposi’s sarcoma palate | N/A | <0.001 | <0.001 |
| 198.82 | Secondary malignant neoplasm of genital organs | N/A | <0.001 | <0.001 |
| 174.5 | Malignant neoplasm of lower-outer quadrant of female breast | 40.57 | <0.001 | <0.001 |
| 180.9 | Malignant neoplasm of cervix uteri unspecified site | 40.57 | <0.001 | <0.001 |
| 611.8 | Other specified disorders of breast | 40.57 | <0.001 | <0.001 |
| 285.22 | Anemia in neoplastic disease | 13.04 | <0.001 | <0.001 |
| 451.11 | Phlebitis and thrombophlebitis of femoral vein (deep) (superficial) | 13.04 | <0.001 | <0.001 |
| 285.29 | Anemia of other chronic illness | 6.96 | <0.001 | <0.001 |
| 518.89 | Other diseases of lung not elsewhere classified | 6.96 | <0.001 | <0.001 |
| 276.7 | Hyperpotassemia | 7.97 | <0.001 | <0.001 |
| 511.9 | Unspecified pleural effusion | 4.83 | <0.001 | <0.001 |
| 585 | Chronic kidney disease (ckd) | 8.28 | <0.001 | <0.001 |
| 785.6 | Enlargement of lymph nodes | 5.38 | <0.001 | <0.001 |
| 790.7 | Bacteremia | 5.38 | <0.001 | <0.001 |
| 191.9 | Malignant neoplasm of brain unspecified site | 20.29 | <0.001 | <0.001 |
| 276.5 | Volume depletion disorder | 4.77 | <0.001 | <0.001 |
| 031.2 | Disseminated mycobacterium | 34.78 | <0.001 | <0.001 |
| 196.3 | Secondary and unspecified malignant neoplasm of lymph nodes of axilla and upper limb | 34.78 | <0.001 | <0.001 |
| 366.16 | Senile nuclear sclerosis | 34.78 | <0.001 | <0.001 |
| 783.21 | Loss of weight | 5.35 | <0.001 | <0.001 |
| 157.9 | Malignant neoplasm of pancreas part unspecified | N/A | <0.001 | <0.001 |
| 159.9 | Malignant neoplasm of ill-defined sites within the digestive organs and peritoneum | N/A | <0.001 | <0.001 |
| 170.9 | Malignant neoplasm of bone and articular cartilage site unspecified | N/A | <0.001 | <0.001 |
| 171.3 | Malignant neoplasm of connective and other soft tissue of lower limb including hip | N/A | <0.001 | <0.001 |
| 171.4 | Malignant neoplasm of connective and other soft tissue of thorax | N/A | <0.001 | <0.001 |
| 197.4 | Secondary malignant neoplasm of small intestine including duodenum | N/A | <0.001 | <0.001 |
| 356.4 | Idiopathic progressive polyneuropathy | N/A | <0.001 | <0.001 |
| 576.1 | Cholangitis | N/A | <0.001 | <0.001 |
| 070.30 | Viral hepatitis b without hepatic coma acute or unspecified without hepatitis delta | 7.45 | <0.001 | <0.001 |
| 185 | Malignant neoplasm of prostate | 7.45 | <0.001 | <0.001 |
| 453.8 | Embolism and thrombosis of other specified veins | 7.45 | <0.001 | <0.001 |
| 518.0 | Pulmonary collapse | 4.06 | <0.001 | <0.001 |
| 998.59 | Other postoperative infection | 4.19 | <0.001 | <0.001 |
| 998.11 | Hemorrhage complicating a procedure | 6.52 | <0.001 | <0.001 |
| 112.84 | Candidal esophagitis | 10.14 | <0.001 | 0.001 |
| 155.2 | Malignant neoplasm of liver not specified as primary or secondary | 28.98 | <0.001 | 0.001 |
| 180.8 | Malignant neoplasm of other specified sites of cervix | 28.98 | <0.001 | 0.001 |
| 199.0 | Disseminated malignant neoplasm | 28.98 | <0.001 | 0.001 |
| 202.90 | Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue unspecified site | 28.98 | <0.001 | 0.001 |
| 158.8 | Malignant neoplasm of specified parts of peritoneum | N/A | <0.001 | 0.002 |
| 158.9 | Malignant neoplasm of peritoneum unspecified | N/A | <0.001 | 0.002 |
| 170.6 | Malignant neoplasm of pelvic bones sacrum and coccyx | N/A | <0.001 | 0.002 |
| 171.5 | Malignant neoplasm of connective and other soft tissue of abdomen | N/A | <0.001 | 0.002 |
| 180.0 | Malignant neoplasm of endocervix | N/A | <0.001 | 0.002 |
| 184.0 | Malignant neoplasm of vagina | N/A | <0.001 | 0.002 |
| 196.9 | Secondary and unspecified malignant neoplasm of lymph nodes site unspecified | N/A | <0.001 | 0.002 |
| 198.0 | Secondary malignant neoplasm of kidney | N/A | <0.001 | 0.002 |

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| ICD-9 | Description | Odds ratio | P-value | FDR |
|--------|---|------------|---------|-------|
| 198.81 | Secondary malignant neoplasm of breast | N/A | <0.001 | 0.002 |
| 453.42 | Venous embolism and thrombosis of deep vessels of distal lower extremity | N/A | <0.001 | 0.002 |
| 793.4 | Nonspecific abnormal findings on radiological and other examination of gastrointestinal tract | N/A | <0.001 | 0.002 |
| 238.0 | Neoplasm of uncertain behavior of bone and articular cartilage | 11.59 | <0.001 | 0.002 |
| 294.10 | Dementia in conditions classified elsewhere without behavioral disturbance | 11.59 | <0.001 | 0.002 |
| 586 | Renal failure unspecified | 11.59 | <0.001 | 0.002 |
| 453.41 | Venous embolism and thrombosis of deep vessels of proximal lower extremity | 8.11 | <0.001 | 0.002 |
| 623.8 | Other specified noninflammatory disorders of vagina | 3.25 | <0.001 | 0.003 |
| 415.19 | Other pulmonary embolism and infarction | 5.80 | <0.001 | 0.003 |
| 562.10 | Diverticulosis of colon (without hemorrhage) | 2.61 | <0.001 | 0.003 |
| 789.5 | Ascites | 6.76 | 0.001 | 0.003 |
| 220 | Benign neoplasm of ovary | 14.49 | 0.001 | 0.004 |
| 239.0 | Neoplasm of unspecified nature of digestive system | 14.49 | 0.001 | 0.004 |
| 571.5 | Cirrhosis of liver without alcohol | 4.14 | 0.001 | 0.005 |
| 787.91 | Diarrhea | 1.86 | 0.001 | 0.005 |
| 263.9 | Unspecified protein-calorie malnutrition | 5.15 | 0.001 | 0.005 |
| 008.45 | Intestinal infection due to clostridium difficile | 4.35 | 0.002 | 0.006 |
| 218.1 | Intramural leiomyoma of uterus | 5.80 | 0.002 | 0.007 |
| 707.15 | Ulcer of other part of foot | 5.80 | 0.002 | 0.007 |
| 272.4 | Other and unspecified hyperlipidemia | 1.91 | 0.002 | 0.007 |
| 078.5 | Cytomegaloviral disease | 23.19 | 0.002 | 0.007 |
| 151.9 | Malignant neoplasm of stomach unspecified site | 23.19 | 0.002 | 0.007 |
| 189.0 | Malignant neoplasm of kidney except pelvis | 23.19 | 0.002 | 0.007 |
| 263.1 | Malnutrition of mild degree | 6.96 | 0.002 | 0.010 |
| 403.91 | Unspecified hypertensive renal disease with renal failure | 4.01 | 0.002 | 0.010 |
| 366.10 | Senile cataract unspecified | 2.51 | 0.003 | 0.011 |
| 786.09 | Respiratory abnormality other | 2.38 | 0.004 | 0.011 |
| 682.6 | Cellulitis and abscess of leg except foot | 2.70 | 0.003 | 0.011 |
| 153.9 | Malignant neoplasm of colon unspecified site | 9.66 | 0.003 | 0.012 |
| 275.42 | Hypercalcemia | 9.66 | 0.003 | 0.012 |
| 786.3 | Hemoptysis | 9.66 | 0.003 | 0.012 |
| 998.12 | Hematoma complicating a procedure | 9.66 | 0.003 | 0.012 |
| 053.9 | Herpes zoster without complication | 5.07 | 0.003 | 0.012 |
| 280.0 | Iron deficiency anemia secondary to blood loss (chronic) | 5.07 | 0.003 | 0.012 |
| 285.21 | Anemia in chronic kidney disease | 5.07 | 0.003 | 0.012 |
| 788.20 | Retention of urine unspecified | 5.07 | 0.003 | 0.012 |
| 593.9 | Unspecified disorder of kidney and ureter | 3.19 | 0.003 | 0.012 |
| 172.7 | Malignant melanoma of skin of lower limb including hip | N/A | 0.003 | 0.012 |
| 172.8 | Malignant melanoma of other specified sites of skin | N/A | 0.003 | 0.012 |
| 172.9 | Melanoma of skin site unspecified | N/A | 0.003 | 0.012 |
| 174.3 | Malignant neoplasm of lower-inner quadrant of female breast | N/A | 0.003 | 0.012 |
| 183.4 | Malignant neoplasm of parametrium | N/A | 0.003 | 0.012 |
| 183.9 | Malignant neoplasm of uterine adnexa unspecified site | N/A | 0.003 | 0.012 |
| 188.9 | Malignant neoplasm of bladder part unspecified | N/A | 0.003 | 0.012 |
| 195.2 | Malignant neoplasm of abdomen | N/A | 0.003 | 0.012 |
| 196.5 | Secondary and unspecified malignant neoplasm of lymph nodes of inguinal region and lower limb | N/A | 0.003 | 0.012 |
| 196.8 | Secondary and unspecified malignant neoplasm of lymph nodes of multiple sites | N/A | 0.003 | 0.012 |
| 198.1 | Secondary malignant neoplasm of other urinary organs | N/A | 0.003 | 0.012 |
| 198.6 | Secondary malignant neoplasm of ovary | N/A | 0.003 | 0.012 |
| 198.7 | Secondary malignant neoplasm of adrenal gland | N/A | 0.003 | 0.012 |
| 200.10 | Lymphosarcoma unspecified site | N/A | 0.003 | 0.012 |
| 202.83 | Other malignant lymphomas involving intra-abdominal lymph nodes | N/A | 0.003 | 0.012 |
| 336.3 | Myelopathy in other diseases classified elsewhere | N/A | 0.003 | 0.012 |
| 357.6 | Polyneuropathy due to drugs | N/A | 0.003 | 0.012 |
| 512.8 | Other spontaneous pneumothorax | N/A | 0.003 | 0.012 |
| 587 | Renal sclerosis unspecified | N/A | 0.003 | 0.012 |
| 593.4 | Other ureteric obstruction | N/A | 0.003 | 0.012 |
| 599.89 | Other specified disorders of urinary tract | N/A | 0.003 | 0.012 |
| 281.9 | Unspecified deficiency anemia | 5.80 | 0.004 | 0.012 |
| 560.1 | Paralytic ileus | 5.80 | 0.004 | 0.012 |

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| ICD-9 | Description | Odds ratio | P-value | FDR |
|--------|---|------------|---------|-------|
| 276.51 | Dehydration | 1.86 | 0.004 | 0.013 |
| 427.31 | Atrial fibrillation | 2.78 | 0.005 | 0.013 |
| 041.11 | Methicillin susceptible staphylococcus aureus | 4.51 | 0.005 | 0.013 |
| 286.9 | Other and unspecified coagulation defects | 4.51 | 0.005 | 0.013 |
| 780.60 | Fever, unspecified | 3.48 | 0.005 | 0.013 |
| 799.02 | Hypoxemia | 3.86 | 0.005 | 0.014 |
| 423.9 | Unspecified disease of pericardium | 7.25 | 0.005 | 0.015 |
| 078.11 | Condyloma acuminatum | 11.59 | 0.005 | 0.016 |
| 614.1 | Chronic salpingitis and oophoritis | 11.59 | 0.005 | 0.016 |
| 427.89 | Other specified cardiac dysrhythmias | 2.35 | 0.006 | 0.018 |
| 428.0 | Congestive heart failure unspecified | 2.19 | 0.006 | 0.018 |
| 707.9 | Chronic ulcer of unspecified site | 3.05 | 0.006 | 0.019 |
| 611.72 | Lump or mass in breast | 2.09 | 0.007 | 0.020 |
| 401.9 | Unspecified essential hypertension | 1.25 | 0.007 | 0.020 |
| 403.90 | Unspecified hypertensive renal disease without renal failure | 2.77 | 0.007 | 0.020 |
| 620.2 | Other and unspecified ovarian cyst | 2.77 | 0.007 | 0.020 |
| 356.9 | Unspecified idiopathic peripheral neuropathy | 3.57 | 0.007 | 0.021 |
| 276.50 | Volume depletion, unspecified | 4.06 | 0.007 | 0.021 |
| 455.0 | Internal hemorrhoids without complication | 2.23 | 0.008 | 0.022 |
| 202.80 | Other malignant lymphomas unspecified site | 5.80 | 0.009 | 0.023 |
| 787.20 | Dysphagia, unspecified | 5.80 | 0.009 | 0.023 |
| 578.9 | Hemorrhage of gastrointestinal tract unspecified | 2.35 | 0.010 | 0.026 |
| 455.6 | Unspecified hemorrhoids without complication | 2.76 | 0.010 | 0.026 |
| 492.8 | Other emphysema | 3.69 | 0.010 | 0.028 |
| 218.2 | Subserous leiomyoma of uterus | 7.73 | 0.011 | 0.029 |
| 276.6 | Fluid overload disorder | 7.73 | 0.011 | 0.029 |
| 686.1 | Pyogenic granuloma of skin and subcutaneous tissue | 7.73 | 0.011 | 0.029 |
| 789.59 | Other ascites | 7.73 | 0.011 | 0.029 |
| 038.49 | Other septicemia due to gram-negative organisms | 17.39 | 0.011 | 0.033 |
| 041.04 | Streptococcus infection in conditions classified elsewhere and of unspecified site streptococcus group d [enterococcus] | 17.39 | 0.011 | 0.033 |
| 041.09 | Streptococcus infection in conditions classified elsewhere and of unspecified site other streptococcus | 17.39 | 0.011 | 0.033 |
| 070.1 | Viral hepatitis a without hepatic coma | 17.39 | 0.011 | 0.033 |
| 117.5 | Cryptococcosis | 17.39 | 0.011 | 0.033 |
| 426.4 | Right bundle branch block | 17.39 | 0.011 | 0.033 |
| 512.1 | Iatrogenic pneumothorax | 17.39 | 0.011 | 0.033 |
| 519.1 | Other diseases of trachea and bronchus not elsewhere classified | 17.39 | 0.011 | 0.033 |
| 583.9 | Nephritis and nephropathy not specified as acute or chronic with unspecified pathological lesion in kidney | 17.39 | 0.011 | 0.033 |
| 584.8 | Acute renal failure with other specified pathological lesion in kidney | 17.39 | 0.011 | 0.033 |
| 610.2 | Fibroadenosis of breast | 17.39 | 0.011 | 0.033 |
| 627.3 | Postmenopausal atrophic vaginitis | 17.39 | 0.011 | 0.033 |
| 785.51 | Cardiogenic shock | 17.39 | 0.011 | 0.033 |
| 789.33 | Abdominal or pelvic swelling mass or lump right lower quadrant | 17.39 | 0.011 | 0.033 |
| 998.51 | Infected postoperative seroma | 17.39 | 0.011 | 0.033 |
| 284.1 | Pancytopenia | 4.83 | 0.014 | 0.044 |
| 416.8 | Other chronic pulmonary heart diseases | 4.83 | 0.014 | 0.044 |
| 453.40 | Venous embolism and thrombosis of unspecified deep vessels of lower extremity | 4.83 | 0.014 | 0.044 |
| 528.9 | Other and unspecified diseases of the oral soft tissues | 4.83 | 0.014 | 0.044 |
| 591 | Hydronephrosis | 4.83 | 0.014 | 0.044 |
| 599.7 | Hematuria | 2.14 | 0.014 | 0.045 |
| 585.6 | End stage renal disease | 3.86 | 0.015 | 0.048 |
| 998.89 | Other specified complications of procedures not elsewhere classified | 3.86 | 0.015 | 0.048 |
| 458.9 | Hypotension unspecified | 2.52 | 0.016 | 0.048 |
| 782.3 | Edema | 2.36 | 0.017 | 0.049 |