**Supplementary Table 1. Prevalence of cardiovascular comorbidities for each type of cancer.**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Cardio-vascular comorbidity** | **DM** | **Hypertension** | **Dyslipidemia** | **Myocardial infarction** | **Heart failure** | **Atrial fibrillation** | **Stroke** | **Arrythmia** | **Coronary heart disease** | **Cardiomyo-pathy** | **Valvular heart disease** |
| Total cancers (n=710170) | 127849(18.00 %) | 37846(5.33%) | 76336(10.75%) | 8334(1.17%) | 1497(0.21%) | 4343(0.61%) | 2508(0.35%) | 19436(2.74%) | 13666(1.92%) | 12039(1.70%) | 846(0.12%) | 1210(0.17%) |
| Lung & bronchus(n=133237,18.76%) | 27365 (20.54%) | 7582(5.69%) | 14573(10.94%) | 1553(1.17%) | 458(0.34%) | 1395(1.05%) | 835(0.63%) | 6327(4.75%) | 3284(2.46%) | 3182(2.39%) | 185(0.14%) | 243(0.18%) |
| Breast(n=90193,24.35%) | 11789 (13.07%) | 3958(4.39%) | 7471(8.28%) | 921(1.02%) | 44(0.05%) | 253(0.28%) | 106(0.12%) | 1174(1.30%) | 840(0.93%) | 867(0.96%) | 118(0.13%) | 110(0.12%) |
| Cervix uteri(n=75037,20.26%) | 11874 (15.82%) | 3154(4.20%) | 7378(9.83%) | 979(1.30%) | 40(0.05%) | 265(0.35%) | 108(0.14%) | 1096(1.46%) | 1681(2.24%) | 576(0.77%) | 41(0.05%) | 151(0.20%) |
| Colon & rectum(n=71202,10.03%) | 15616 (21.93%) | 5103(7.17%) | 9907(13.91%) | 719(1.01%) | 208(0.29%) | 374(0.53%) | 301(0.42%) | 2241(3.15%) | 1582(2.22%) | 1734(2.44%) | 88(0.12%) | 176(0.25%) |
| Esophagus(n=58648,8.26%) | 11455 (19.53%) | 2535(4.32%) | 6980(11.90%) | 193(0.33%) | 196(0.33%) | 361(0.62%) | 318(0.54%) | 2241(3.82%) | 1382(2.36%) | 1225(2.09%) | 50(0.09%) | 97(0.17%) |
| Stomach(n=48294,6.80%) | 7619 (15.78%) | 2049(4.24%) | 4515(9.35%) | 151(0.31%) | 149(0.31%) | 228(0.47%) | 173(0.36%) | 1380(2.86%) | 822(1.70%) | 830(1.72%) | 30(0.06%) | 92(0.19%) |
| Thyroid(n=31286,4.41%) | 5009 (16.01%) | 1138(3.64%) | 3269(10.45%) | 877(2.80%) | 14(0.04%) | 30(0.10%) | 25(0.08%) | 321(1.03%) | 411(1.31%) | 203(0.65%) | 11(0.04%) | 22(0.07%) |
| Liver(n=29884,4.21%) | 3897 (13.04%) | 1736(5.81%) | 2300(7.70%) | 78(0.26%) | 39(0.13%) | 136(0.46%) | 71(0.24%) | 344(1.15%) | 238(0.80%) | 325(1.09%) | 21(0.07%) | 28(0.09%) |
| Oral, pharynx & larynx(n=28654,4.03%) | 3889 (13.57%) | 1142(3.99%) | 2188(7.64%) | 327(1.14%) | 39(0.14%) | 77(0.27%) | 66(0.23%) | 543(1.90%) | 444(1.55%) | 294(1.03%) | 28(0.10%) | 32(0.11%) |
| Lymphoma(n=23485,3.31%) | 4343 (18.49%) | 1338(5.70%) | 2012(8.57%) | 759(3.23%) | 44(0.19%) | 395(1.68%) | 97(0.41%) | 608(2.59%) | 589(2.51%) | 548(2.33%) | 132(0.56%) | 46(0.20%) |
| Ovary(n=18835,5.08%) | 3615 (19.19%) | 1019(5.41%) | 2049(10.88%) | 486(2.58%) | 20(0.11%) | 108(0.57%) | 23(0.12%) | 315(1.67%) | 583(3.10%) | 202(1.07%) | 11(0.06%) | 42(0.22%) |
| Other sites (n=14347,2.02%) | 2306 (16.07%) | 648(4.52%) | 1411(9.83%) | 174(1.21%) | 20(0.14%) | 58(0.40%) | 37(0.26%) | 302(2.10%) | 292(2.04%) | 152(1.06%) | 14(0.10%) | 24(0.17%) |
| Corpus uterus(n=11270,3.04%) | 3293 (29.22%) | 1199(10.64%) | 2324(20.62%) | 261(2.32%) | 12(0.11%) | 59(0.52%) | 34(0.30%) | 305(2.71%) | 318(2.82%) | 159(1.41%) | 13(0.12%) | 30(0.27%) |
| Bladder & ureter(n=11032,1.55%) | 2647 (23.99%) | 803(7.28%) | 1740(15.77%) | 71(0.64%) | 43(0.39%) | 85(0.77%) | 70(0.63%) | 372(3.37%) | 221(2.00%) | 370(3.35%) | 12(0.11%) | 19(0.17%) |
| Kidney &renal pelvis(n=8777,1.24%) | 2415 (27.52%) | 772(8.80%) | 1793(20.43%) | 115(1.31%) | 32(0.36%) | 62(0.71%) | 28(0.32%) | 307(3.50%) | 97(1.11%) | 243(2.77%) | 16(0.18%) | 11(0.13%) |
| Skin(n=8562,1.21%) | 1452 (16.96%) | 379(4.43%) | 975(11.39%) | 144(1.68%) | 11(0.13%) | 29(0.34%) | 34(0.40%) | 168(1.96%) | 112(1.31%) | 141(1.65%) | 14(0.16%) | 11(0.13%) |
| Pancreas(n=6652,0.94%) | 1672 (25.14%) | 975(14.66%) | 885(13.30%) | 39(0.59%) | 22(0.33%) | 72(1.08%) | 32(0.48%) | 166(2.50%) | 72(1.08%) | 206(3.10%) | 9(0.14%) | 12(0.18%) |
| Nervous system(n=6481,0.91%) | 867 (13.38%) | 197(3.04%) | 455(7.02%) | 79(1.22%) | 10(0.15%) | 21(0.32%) | 5(0.08%) | 256(3.95%) | 51(0.79%) | 40(0.62%) | 3(0.05%) | 6(0.09%) |
| Gallbladder & bile duct(n=5545,0.78%) | 1179 (21.26%) | 457(8.24%) | 757(13.65%) | 36(0.65%) | 25(0.45%) | 42(0.76%) | 30(0.54%) | 130(2.34%) | 79(1.42%) | 118(2.13%) | 5(0.09%) | 8(0.14%) |
| Prostate(n=5380,1.58%) | 1966 (36.54%) | 618(11.49%) | 1324(24.61%) | 107(1.99%) | 28(0.52%) | 87(1.62%) | 46(0.86%) | 313(5.82%) | 158(2.94%) | 317(5.89%) | 14(0.26%) | 11(0.20%) |
| Uncertain metastatic tumor (n=5028,0.71%) | 620 (12.33%) | 188(3.74%) | 360(7.16%) | 36(0.72%) | 9(0.18%) | 23(0.46%) | 10(0.20%) | 120(2.39%) | 47(0.93%) | 34(0.68%) | 4(0.08%) | 7(0.14%) |
| Other genital organs (n=4015,0.57%) | 531 (13.23%) | 166(4.13%) | 325(8.09%) | 36(0.90%) | 5(0.12%) | 9(0.22%) | 2(0.05%) | 52(1.30%) | 59(1.47%) | 29(0.72%) | 0(0.00%) | 5(0.12%) |
| Other hematologic tumor(n=3969,0.56%) | 918 (23.13%) | 253(6.37%) | 468(11.79%) | 97(2.44%) | 9(0.23%) | 104(2.62%) | 24(0.60%) | 172(4.33%) | 94(2.37%) | 107(2.70%) | 20(0.50%) | 12(0.30%) |
| Bone(n=3278,0.46%) | 327 (9.98%) | 101(3.08%) | 167(5.09%) | 13(0.40%) | 5(0.15%) | 16(0.49%) | 6(0.18%) | 25(0.76%) | 75(2.29%) | 28(0.85%) | 1(0.03%) | 3(0.09%) |
| Other GI organs & peritoneum (n=3113,0.44%) | 540 (17.35%) | 144(4.63%) | 364(11.69%) | 31(1.00%) | 9(0.29%) | 19(0.61%) | 9(0.29%) | 70(2.25%) | 44(1.41%) | 54(1.73%) | 5(0.16%) | 8(0.26%) |
| Other intrathoracic (n=2931,0.41%) | 487 (16.62%) | 142(4.84%) | 247(8.43%) | 42(1.43%) | 3(0.10%) | 29(0.99%) | 14(0.48%) | 76(2.59%) | 75(2.56%) | 42(1.43%) | 1(0.03%) | 4(0.14%) |
| Connective issue(n=592,0.08%) | 81 (13.68%) | 23(3.89%) | 56(9.46%) | 4(0.68%) | 1(0.17%) | 3(0.51%) | 2(0.34%) | 5(0.84%) | 7(1.18%) | 9(1.52%) | 0(0.00%) | 0(0.00%) |
| Mesothelioma(n=324,0.05%) | 64 (19.75%) | 24(7.41%) | 33(10.19%) | 3(0.93%) | 2(0.62%) | 3(0.93%) | 2(0.62%) | 7(2.16%) | 7(2.16%) | 4(1.23%) | 0(0.00%) | 0(0.00%) |
| Other pelvic cavity(n=119,0.02%) | 13 (10.92%) | 3(2.52%) | 10(8.40%) | 3(2.52%) | 0(0.00%) | 0(0.00%) | 0(0.00%) | 0(0.00%) | 2(1.68%) | 0(0.00%) | 0(0.00%) | 0(0.00%) |

Abbreviations: DM, diabetes mellitus; GI, gastrointestinal.