Supplemental Material 8. Observed to Expected (O/E) ratio for cancer death estimated by the AAPC-Joinpoint model to actual observed cancer cases in 2020

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2020 observed | 2020 expected | O/E ratio (95% CI) |
|  | M | W | M | W | M | W |
| All cancer (C00-96) | 50,817 | 31,387 | 50,390 | 31,328 | 1.01 (1.00-1.02) | 1.00 (0.99-1.01) |
| Oral cavity, pharynx, Lip (C00-14) | 972 | 311 | 880 | 308 | 1.10 (1.04-1.18) | 1.01 (0.90-1.13) |
| MPL (C00-14, C32) | 1,282 | 322 | 1,106 | 318 | 1.16 (1.10-1.22) | 1.01 (0.90-1.13) |
| Aero-digestive (C00-C16, C18-20, C30-34) | 23,172 | 9,107 | 26,654 | 12,028 | 0.87 (0.86-0.88) | 0.76 (0.74-0.77) |
| Salivary (C07-08) | 92 | 57 | 111 | 49 | 0.83 (0.67-1.01) | 1.16 (0.88-1.48) |
| Pharynx (C10-14) | 435 | 63 | 419 | 44 | 1.04 (0.94-1.14) | 1.43 (1.10-1.81) |
| Nasopharynx (C11)  | 125 | 37 | 126 | 42 | 0.99 (0.83-1.17) | 0.88 (0.62-1.19) |
| Esophagus (C15)  | 1,404 | 160 | 1,309 | 119 | 1.07 (1.02-1.13) | 1.34 (1.14-1.56) |
| Stomach (C16) | 4,807 | 2,703 | 4,904 | 2,535 | 0.98 (0.95-1.01) | 1.07 (1.03-1.11) |
| Cardia (C16.0) | 294 | 97 | 396 | 117 | 0.74 (0.66-0.83) | 0.83 (0.67-1.00) |
| Non-cardia (C16.1-C16.6, C16.8) | 4,513 | 2,606 | 4,217 | 3,072 | 1.07 (1.04-1.10) | 0.85 (0.82-0.88) |
| Colorectal (C18-C20) | 1,740 | 1,021 | 5,366 | 4,097 | 0.32 (0.31-0.34) | 0.25 (0.23-0.26) |
| Liver (C22) | 7,812 | 2,753 | 7,772 | 2,865 | 1.01 (0.99-1.03) | 0.97 (0.93-1.00) |
| Hepatocellular carcinoma (C22.0) | 6,084 | 1,648 | 6,020 | 1,670 | 1.01 (0.99-1.04) | 0.99 (0.94-1.04) |
| Cholangiocarcinoma (C22.1) | 1,560 | 1,030 | 1,687 | 1,211 | 0.92 (0.88-0.97) | 0.85 (0.80-0.90) |
| Anus (C21) | 31 | 44 | 25 | 51 | 1.24 (0.84-1.71) | 0.86 (0.63-1.14) |
| Gallbladder (C23) | 838 | 1,052 | 788 | 1,072 | 1.06 (0.99-1.14) | 0.98 (0.92-1.04) |
| Biliary tract (C23-C24) | 2,784 | 2,408 | 2,667 | 2,531 | 1.04 (1.01-1.08) | 0.95 (0.91-0.99) |
| Pancreas (C25) | 3,542 | 3,323 | 3,439 | 3,119 | 1.03 (1.00-1.06) | 1.07 (1.03-1.10) |
| Nasal cavity/ PNS (C30-C31) | 115 | 52 | 96 | 64 | 1.20 (0.99-1.43) | 0.81 (0.61-1.05) |
| Larynx (C32) | 310 | 11 | 252 | 20 | 1.23 (1.10-1.37) | 0.55 (0.27-0.92) |
| Lung, Bronchus, Trachea (C33-C34) | 13,824 | 4,849 | 13,847 | 4,885 | 1.00 (0.98-1.02) | 0.99 (0.96-1.02) |
| Bone (C40-C41) | 99 | 60 | 88 | 56 | 1.13 (0.91-1.36) | 1.07 (0.82-1.36) |
| Melanoma (C43) | 163 | 144 | 160 | 171 | 1.02 (0.87-1.18) | 0.84 (0.71-0.99) |
| Non-melanoma, Skin (C44) | 120 | 152 | 90 | 145 | 1.33 (1.11-1.58) | 1.05 (0.89-1.22) |
| Mesothelioma (C45) | 88 | 42 | 96 | 36 | 0.92 (0.74-1.12) | 1.17 (0.84-1.55) |
| Kaposi sarcoma (C46) | 10 | 3 | 13 | 6 | 0.77 (0.37-1.32) | 0.50 (0.09-1.23) |
| Breast (C50) 1 | 20 | 2,725 | 13 | 2,656 | 1.54 (0.94-2.29) | 1.03 (0.99-1.06) |
| Premenopausal  | 0 | 628 | 0 | 560 | - | 1.12 (1.04-1.21) |
| Postmenopausal  | 20 | 2,097 | 13 | 2,096 | 1.54 (0.94-2.29) | 1.00 (0.96-1.04) |
| Vulva (C51) | - | 46 | - | 55 | - | 0.84 (0.61-1.10) |
| Vagina (C52) | - | 29 | - | 33 | - | 0.88 (0.69-1.23) |
| Cervix uteri (C53) | - | 810 | - | 861 | - | 0.94 (0.88-1.01) |
| Corpus uteri (C54) | - | 378 | - | 415 | - | 0.91 (0.82-1.00) |
| Endometrium (C54.1) | - | 341 | - | 380 | - | 0.90 (0.80-1.00) |
| Ovary (C56) | - | 1,369 | - | 1,342 | - | 1.02 (0.97-1.07) |
| Penis (C60) | 20 | - | 16 | - | 1.25 (0.76-1.86) | - |
| Prostate (C61) | 2,194 | - | 2,323 | - | 0.94 (0.91-0.98) | - |
| Testis (C62) | 14 | - | 17 | - | 0.82 (0.45-1.31) | - |
| Kidney (C64) | 764 | 312 | 714 | 338 | 1.07 (1.00-1.15) | 0.92 (0.82-1.03) |
| Kidney, renal pelvis, ureter (C64-C66) | 1,121 | 540 | 1,101 | 591 | 1.02 (0.96-1.08) | 0.91 (0.84-0.99) |
| Bladder (C67) | 1,235 | 358 | 1,129 | 373 | 1.09 (1.03-1.16) | 0.96 (0.86-1.06) |
| Brain and CNS (C70-C72) | 784 | 653 | 740 | 619 | 1.06 (0.99-1.13) | 1.05 (0.98-1.14) |
| Meningioma (C70) | 18 | 17 | 24 | 15 | 0.75 (0.44-1.14) | 1.13 (0.66-1.74) |
| Thyroid (C73) | 128 | 237 | 113 | 270 | 1.13 (0.95-1.34) | 0.88 (0.77-0.99) |
| Hodgkin lymphoma (C81)  | 30 | 18 | 43 | 27 | 0.70 (0.47-0.97) | 0.67 (0.39-1.01) |
| NHL (C82-C85, C96.3) | 1,106 | 820 | 1,127 | 855 | 0.98 (0.92-1.04) | 0.96 (0.89-1.03) |
| Multiple Myeloma (C90) | 514 | 462 | 579 | 509 | 0.89 (0.81-0.97) | 0.91 (0.83-0.99) |
| Leukemia (C91-C95) | 1,048 | 777 | 1,091 | 760 | 0.96 (0.90-1.02) | 1.02 (0.95-1.10) |

Abbreviation: M, Men; W, Women; MPL, Mouth, pharynx & larynx cancers; HCC, Hepatocellular carcinoma; CC, Cholangiocarcinoma; PNS, Peripheral Nervous System, CNS, Central Nervous System; NHL, Non-Hodgkin lymphoma

1. Definition of menopausal status: premenopausal (age <50) and postmenopausal (age ≥ 50).