Supplemental Material 5. Observed mortality rates (per 100,000 people) and cancer deaths among 20 years and older Korean population in 2000 and 2018 and the model estimates in the projected years 2020 and 2035 in AAPC-Joinpoint regression model

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | AAPC (%) | Observed year | | Projected year | | Observed year | | Projected year | |
| 2000  ASMR | 2018  ASMR | 2020  ASMR | 2035  ASMR | 2000  deaths | 2018  deaths | 2020 deaths | 2035  deaths |
| Male |  |  |  |  |  |  |  |  |  |
| All cancer | -3.4 (-3.61, -6.10) | 221.87 | 118.78 | 111.75 | 70.69 | 36,907 | 48,781 | 50,390 | 58,309 |
| Oral cavity & Pharynx | -2.6 (-3.09, -2.07) | 3.97 | 2.21 | 2.12 | 1.58 | 661 | 841 | 880 | 1,093 |
| Esophagus | -5.0 (-5.34, -4.65) | 8.15 | 3.21 | 2.92 | 1.42 | 1,356 | 1,314 | 1,309 | 1,132 |
| Stomach | -6.9 (-7.12, -6.57) | 45.01 | 12.55 | 11.05 | 4.24 | 7,487 | 5,082 | 4,904 | 3,371 |
| Colorectal | -0.7 (-1.40, 0.00) | 13.36 | 11.83 | 11.76 | 11.25 | 2,223 | 4,900 | 5,366 | 9,417 |
| Liver | -4.3 (-4.71, -3.83) | 46.62 | 20.96 | 19.34 | 10.58 | 7,755 | 7,788 | 7,772 | 6,859 |
| Gallbladder | -1.5 (-2.81, -0.17) | 2.22 | 1.71 | 1.67 | 1.37 | 369 | 734 | 788 | 1,230 |
| Biliary tract | -2.4 (-3.29, -1.53) | 8.22 | 5.68 | 5.48 | 4.20 | 1,368 | 2,504 | 2,667 | 3,940 |
| Pancreas | -0.8 (-1.02, -0.59) | 9.40 | 7.91 | 7.79 | 6.91 | 1,563 | 3,193 | 3,439 | 5,409 |
| Larynx | -9.6 (-10.64, -8.58) | 3.94 | 0.62 | 0.53 | 0.14 | 656 | 271 | 252 | 130 |
| Lung, Bronchus, Trachea | -3.0 (-3.52, -2.49) | 51.83 | 29.92 | 28.42 | 19.34 | 8,622 | 13,187 | 13,847 | 18,282 |
| Prostate | 0.8 (-0.33, 2.00) | 3.29 | 3.86 | 3.99 | 5.14 | 548 | 1,995 | 2,323 | 6,507 |
| Kidney | -1.3 (-2.95, 0.38) | 2.00 | 1.68 | 1.64 | 1.35 | 332 | 670 | 714 | 1,024 |
| Bladder | -2.7 (-3.35, -2.04) | 3.58 | 2.19 | 2.09 | 1.49 | 595 | 1,055 | 1,129 | 1,670 |
| Brain and CNS | -1.6 (-2.12, -1.01) | 2.82 | 2.24 | 2.22 | 2.09 | 469 | 697 | 740 | 1,049 |
| Thyroid | -3.7 (-4.85, -2.48) | 0.44 | 0.25 | 0.24 | 0.18 | 74 | 109 | 117 | 172 |
| NHL | -1.8 (-2.21, -1.28) | 4.01 | 2.73 | 2.64 | 2.02 | 667 | 1,068 | 1,126 | 1,561 |
| MM | 1.8 (-0.19, 3.80) | 1.02 | 1.22 | 1.27 | 1.74 | 169 | 508 | 583 | 1,483 |
| Leukemia | -1.5 (-1.76, -1.21) | 3.93 | 3.07 | 2.96 | 2.38 | 653 | 1,038 | 1,091 | 1,462 |
| **Female** |  |  |  |  |  |  |  |  |  |
| All cancer | -1.9 (-2.26, -1.52) | 121.31 | 83.77 | 80.98 | 62.89 | 20,756 | 30,159 | 31,327 | 37,536 |
| Oral cavity & Pharynx | -2.10 (-0.38, -2.58) | 2.29 | 0.85 | 0.83 | 0.69 | 392 | 296 | 308 | 376 |
| Esophagus | -4.8 (-5.71, -3.80) | 0.87 | 0.34 | 0.31 | 0.15 | 149 | 121 | 119 | 88 |
| Stomach | -6.4 (-6.84, -5.93) | 24.00 | 7.26 | 6.42 | 2.56 | 4,107 | 2,662 | 2,535 | 1,554 |
| Colorectal | -0.8 (-1.12, -0.43) | 11.36 | 9.79 | 9.73 | 9.30 | 1,945 | 3,815 | 4,097 | 6,264 |
| Liver | -3.3 (-4.21, -2.36) | 13.82 | 7.61 | 7.18 | 4.61 | 2,364 | 2,821 | 2,865 | 2,964 |
| Gallbladder | -1.0 (-2.42, 0.47) | 3.21 | 2.61 | 2.57 | 2.31 | 550 | 1,004 | 1,072 | 1,577 |
| Biliary tract | -1.5 (-2.41, -0.56) | 7.55 | 6.00 | 5.92 | 5.33 | 1,292 | 2,367 | 2,531 | 3,780 |
| Pancreas | 0.9 (0.62, 1.15) | 6.85 | 7.55 | 7.69 | 8.79 | 1,172 | 2,843 | 3,119 | 5,785 |
| Larynx | -12.9 (-14.02, -11.70) | 0.64 | 0.06 | 0.04 | 0.01 | 109 | 24 | 20 | 6 |
| Lung, Bronchus, Trachea | -2.1 (-2.45, -1.75) | 17.51 | 12.15 | 11.77 | 9.28 | 2,995 | 4,663 | 4,885 | 6,215 |
| Breast | 1.6 (0.87, 2.29) | 6.79 | 8.45 | 8.71 | 10.89 | 1,162 | 2,460 | 2,656 | 3,996 |
| Cervix uteri | -2.2 (-3.58, -0.75) | 4.27 | 2.81 | 2.71 | 2.07 | 731 | 845 | 862 | 875 |
| Ovary | 0.7 (0.30, 1.12) | 3.32 | 3.91 | 3.99 | 4.63 | 568 | 1,241 | 1,342 | 2,110 |
| Kidney | -0.6 (-1.08, -0.04) | 0.99 | 0.87 | 0.86 | 0.81 | 170 | 317 | 338 | 498 |
| Bladder | -0.8 (-3.20, 1.66) | 1.07 | 0.80 | 0.79 | 0.7 | 183 | 345 | 373 | 594 |
| Brain and CNS | -0.9 (-2.25, 0.41) | 2.37 | 1.95 | 1.92 | 1.73 | 405 | 593 | 619 | 790 |
| Thyroid | -2.9 (-4.22, -1.55) | 1.13 | 0.65 | 0.63 | 0.46 | 194 | 263 | 274 | 340 |
| NHL | -0.2 (-0.64, 0.34) | 2.30 | 2.22 | 1.18 | 2.18 | 394 | 798 | 479 | 1,348 |
| MM | 3.0 (1.34, 4.72) | 0.70 | 1.18 | 1.26 | 2.12 | 119 | 445 | 514 | 1,411 |
| Leukemia | -1.2 (-1.73, -0.73) | 2.91 | 2.28 | 2.23 | 1.86 | 497 | 734 | 760 | 925 |

Abbreviation: CNS, Central Nervous System; NHL, Non-Hodgkin lymphoma; MM, Multiple Myeloma