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 |
| 2000ASMR | 2018ASMR | 2020ASMR | 2035ASMR | 2000deaths | 2018deaths | 2020 deaths | 2035deaths |
| 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