

Epidemiology Note

Cancer Incidence and Incidence Rates in Japan in 2005: Based on Data from 12 Population-based Cancer Registries in the Monitoring of Cancer Incidence in Japan (MCIJ) Project

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The Japan Cancer Surveillance Research Group estimated the cancer incidence in 2005 as part of the Monitoring of Cancer Incidence in Japan (MCIJ) project, on the basis of data collected from 12 of 30 population-based cancer registries. The total number of incidences in Japan for 2005 was estimated as 646 802 (C00–C96). The leading cancer site was the stomach for men and the breast for women. Age-standardized incidence rates remained almost the same level as the previous 2 years.

Key words: cancer incidence – incidence estimates – cancer registry – Japan

The Japan Cancer Surveillance Research Group is involved in cancer monitoring in Japan since 2000 (1–5). This group estimated the cancer incidence in 2005 as part of the Monitoring of Cancer Incidence in Japan (MCIJ) project, on the basis of data collected from 12 of 30 population-based cancer registries: Miyagi, Yamagata, Chiba, Kanagawa, Niigata, Fukui, Shiga, Tottori, Okayama, Hiroshima, Nagasaki and Kumamoto. If data from all 30 registries were used, this would have led to a large underestimation of national cancer incidence because of under-registration. The methods of registry selection, estimation of incidence and the limitations of these methods have been explained in previous studies (6–8). We maintained the same methodology since the MCIJ2003: (i) we invited all 30 population-based cancer registries in Japan to participate, and from these, we selected the 12 cancer registries with high-quality data in order to estimate the national incidence, and (ii) we used 2005 data alone for the national estimation. For this year, data from Osaka and Saga prefectures, regularly considered as one of the registries with high quality, were not available for the MCIJ project. The other registries remained since the previous estimation in 2004.

The number of incidences, crude rates, age-standardized rates and quality indicators of registration in 2005 are shown in Table 1, and the age-specific number of incidences and the rates according to sex and primary site are shown in Tables 2 and 3. The total number of incidences in Japan for 2005 was estimated as 646 802 (C00–C96). The time trends of age-standardized incidence rates for the five major sites and male- and female-specific sites in 1975–2005 are shown in Fig. 1 (standard population: the world population) and in Fig. 2 (standard population: the 1985 Japanese model population). The leading cancer site according to the crude and age-standardized incidence rates was the stomach for men and the breast for women since the research group took over national estimation of incidence, as shown in Figs 1 and 2. Age-standardized incidence rates remained almost the same level as the previous 2 years. It is thought to be partly due to that the development of hospital-based cancer registry in designated cancer care hospitals was calmed down in 2005. The estimated cancer incidence data in Japan by sex, site, 5-year age group and calendar year during the period 1975–2005 are available as a booklet and as an electronic database

Table 1. Incidence, completeness of reporting and accuracy of diagnosis in Japan according to sex and primary site, 2005

| Primary sites | ICD-10th | Number of incidence | Crude rate ^a | Age-standardized rate ^a | | Completeness of reporting | | Accuracy of diagnosis |
|-----------------------------------|------------------|---------------------|-------------------------|------------------------------------|--------------------------------|---------------------------|------|-----------------------|
| | | | | World population | Japanese 1985 model population | DCO/I (%) | I/M | MV/I (%) |
| Male | | | | | | | | |
| All sites (incl. CIS) | C00–C96, D00–D09 | 390 835 | 626.9 | 288.5 | 408.4 | 14.9 | 1.99 | 74.8 |
| All sites | C00–C96 | 379 436 | 608.6 | 279.7 | 396.1 | 15.2 | 1.93 | 74.3 |
| Lip, oral cavity and pharynx | C00–C14 | 7417 | 11.9 | 6.0 | 8.2 | 12.8 | 1.79 | 80.6 |
| Esophagus | C15 | 14 818 | 23.8 | 11.1 | 15.5 | 13.1 | 1.57 | 80.0 |
| Stomach | C16 | 80 102 | 128.5 | 59.3 | 83.9 | 12.1 | 2.45 | 84.0 |
| Colon | C18 | 37 126 | 59.5 | 27.1 | 38.7 | 10.3 | 2.76 | 84.1 |
| Rectum | C19–C20 | 22 344 | 35.8 | 17.5 | 24.2 | 10.3 | 2.57 | 85.3 |
| Colon and rectum | C18–C20 | 59 470 | 95.4 | 44.6 | 62.9 | 10.3 | 2.69 | 84.6 |
| Liver | C22 | 28 729 | 46.1 | 21.4 | 30.1 | 23.5 | 1.24 | 31.3 |
| Gallbladder etc. | C23–C24 | 9237 | 14.8 | 6.1 | 9.1 | 25.3 | 1.18 | 48.8 |
| Pancreas | C25 | 13 108 | 21.0 | 9.5 | 13.5 | 26.5 | 1.07 | 35.9 |
| Larynx | C32 | 3903 | 6.3 | 2.9 | 4.0 | 6.1 | 3.88 | 89.3 |
| Trachea, bronchus and lung | C33–C34 | 58 264 | 93.4 | 39.4 | 58.5 | 21.7 | 1.29 | 68.8 |
| Melanoma of skin etc. | C43–C44 | 4798 | 7.7 | 3.5 | 5.0 | 4.2 | 7.64 | 92.5 |
| Prostate | C61 | 42 997 | 69.0 | 28.2 | 42.0 | 10.3 | 4.64 | 83.5 |
| Bladder | C67 | 12 619 | 20.2 | 8.8 | 12.9 | 10.3 | 3.05 | 83.2 |
| Kidney, renal pelvis, ureter etc. | C64–C66, C68 | 9758 | 15.7 | 7.7 | 10.6 | 13.2 | 2.43 | 76.1 |
| Brain and nervous system | C70–C72 | 2496 | 4.0 | 2.8 | 3.3 | 25.3 | 2.71 | 68.2 |
| Thyroid | C73 | 2126 | 3.4 | 2.0 | 2.6 | 4.5 | 4.77 | 91.0 |
| Malignant lymphoma | C81–C85, C96 | 9667 | 15.5 | 8.0 | 10.9 | 12.4 | 1.99 | 86.1 |
| Multiple myeloma | C88, C90 | 2242 | 3.6 | 1.5 | 2.3 | 23.2 | 1.14 | 67.4 |
| All leukaemias | C91–C95 | 5200 | 8.3 | 5.3 | 6.3 | 21.6 | 1.21 | 85.9 |

Female

| | | | | | | | | |
|-----------------------------------|------------------|---------|-------|-------|-------|------|------|------|
| All sites (incl. CIS) | C00–C96, D00–D09 | 285 240 | 436.0 | 202.6 | 271.1 | 15.0 | 2.21 | 74.9 |
| All sites | C00–C96 | 267 366 | 408.7 | 183.8 | 247.7 | 15.8 | 2.07 | 73.7 |
| Lip, oral cavity and pharynx | C00–C14 | 3498 | 5.3 | 2.3 | 3.1 | 14.6 | 2.29 | 80.4 |
| Esophagus | C15 | 2678 | 4.1 | 1.5 | 2.1 | 20.9 | 1.56 | 71.6 |
| Stomach | C16 | 37 035 | 56.6 | 21.8 | 30.7 | 15.6 | 2.10 | 80.2 |
| Colon | C18 | 31 069 | 47.5 | 17.9 | 25.1 | 14.3 | 2.27 | 79.5 |
| Rectum | C19–C20 | 13 517 | 20.7 | 8.9 | 12.1 | 11.0 | 2.70 | 83.8 |
| Colon and rectum | C18–C20 | 44 586 | 68.2 | 26.8 | 37.2 | 13.3 | 2.39 | 80.7 |
| Liver | C22 | 13 465 | 20.6 | 6.9 | 10.1 | 27.6 | 1.22 | 26.7 |
| Gallbladder etc. | C23–C24 | 9399 | 14.4 | 4.0 | 6.1 | 30.9 | 1.08 | 38.4 |
| Pancreas | C25 | 11 691 | 17.9 | 5.8 | 8.4 | 28.8 | 1.10 | 30.7 |
| Larynx | C32 | 214 | 0.3 | 0.1 | 0.2 | 16.2 | 2.55 | 73.7 |
| Trachea, bronchus and lung | C33–C34 | 25 617 | 39.2 | 14.3 | 20.2 | 23.3 | 1.52 | 68.0 |
| Melanoma of skin etc. | C43–C44 | 4342 | 6.6 | 2.3 | 3.2 | 8.2 | 7.50 | 90.1 |
| Breast (incl. CIS) | C50, D05 | 50 695 | 77.5 | 47.5 | 61.4 | 5.0 | 4.73 | 90.4 |
| Breast (only invasive) | C50 | 47 583 | 72.7 | 44.4 | 57.4 | 5.3 | 4.44 | 89.9 |
| Uterus (incl. CIS) | C53–C55, D06 | 25 424 | 38.9 | 27.5 | 34.3 | 5.5 | 4.73 | 89.9 |
| Uterus (only invasive) | C53–C55 | 17 476 | 26.7 | 16.4 | 21.1 | 7.4 | 3.25 | 87.2 |
| Cervix uteri | C53 | 8474 | 13.0 | 8.7 | 11.0 | 6.1 | 3.44 | 88.6 |
| Corpus uteri | C54 | 8189 | 12.5 | 7.3 | 9.5 | 3.2 | 5.61 | 92.1 |
| Ovary | C56 | 8304 | 12.7 | 7.4 | 9.4 | 13.4 | 1.86 | 77.7 |
| Bladder | C67 | 3858 | 5.9 | 1.8 | 2.7 | 19.8 | 2.04 | 71.7 |
| Kidney, renal pelvis, ureter etc. | C64–C66, C68 | 4884 | 7.5 | 3.1 | 4.2 | 16.8 | 2.31 | 71.4 |
| Brain and nervous system | C70–C72 | 2567 | 3.9 | 2.3 | 2.7 | 28.2 | 3.49 | 64.6 |
| Thyroid | C73 | 7093 | 10.8 | 6.7 | 8.5 | 7.5 | 6.93 | 88.5 |
| Malignant lymphoma | C81–85 C96 | 7324 | 11.2 | 5.0 | 6.6 | 13.7 | 1.97 | 83.7 |
| Multiple myeloma | C88 C90 | 2171 | 3.3 | 1.2 | 1.7 | 26.3 | 1.13 | 66.8 |
| All leukaemias | C91–C95 | 3832 | 5.9 | 3.4 | 4.0 | 22.6 | 1.29 | 83.5 |

ICD-10th, International Classification of Disease, 10th Revision; DCO/I, proportion of cases with the death certificate only to incident cases; I/M, number of incidence/number of deaths; MV/I, proportion of microscopically verified cases to incident cases; CIS, carcinoma *in situ*.

^aPer 100 000 population.

Table 2. Age-specific incidence in Japan according to sex and primary site, 2005

| Primary sites | ICD-10th | Age group (years) | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|-------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85+ |
| Male | | | | | | | | | | | | | | | | | | | |
| All sites (incl. CIS) | C00-C96, D00-D09 | 411 | 251 | 264 | 325 | 694 | 915 | 1592 | 2633 | 4640 | 7543 | 17 618 | 34 039 | 47 157 | 60 310 | 73 404 | 69 067 | 40 247 | 29 725 |
| All sites | C00-C96 | 411 | 247 | 264 | 320 | 694 | 895 | 1577 | 2540 | 4422 | 7221 | 16 847 | 32 892 | 45 627 | 58 269 | 71 267 | 67 254 | 39 392 | 29 297 |
| Lip, oral cavity and pharynx | C00-C14 | 1 | 7 | 14 | 2 | 36 | 39 | 58 | 71 | 123 | 261 | 543 | 1125 | 1157 | 1040 | 1060 | 1054 | 494 | 332 |
| Esophagus | C15 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 22 | 61 | 304 | 717 | 1779 | 2364 | 2846 | 2604 | 2304 | 1196 | 619 |
| Stomach | C16 | 4 | 0 | 0 | 6 | 46 | 66 | 168 | 435 | 1060 | 1708 | 4174 | 7786 | 10 330 | 12 802 | 14 933 | 13 373 | 7552 | 5659 |
| Colon | C18 | 0 | 0 | 0 | 6 | 1 | 62 | 115 | 311 | 456 | 658 | 1786 | 3257 | 4635 | 5947 | 6828 | 6253 | 3979 | 2832 |
| Rectum | C19-C20 | 0 | 0 | 0 | 5 | 4 | 20 | 120 | 171 | 406 | 734 | 1437 | 2830 | 3320 | 3508 | 3825 | 3184 | 1640 | 1140 |
| Colon and rectum | C18-C20 | 0 | 0 | 0 | 11 | 5 | 82 | 235 | 482 | 862 | 1392 | 3223 | 6087 | 7955 | 9455 | 10 653 | 9437 | 5619 | 3972 |
| Liver | C22 | 15 | 0 | 0 | 0 | 6 | 22 | 56 | 160 | 271 | 501 | 1523 | 2795 | 4111 | 4824 | 5840 | 4716 | 2448 | 1441 |
| Gallbladder etc. | C23-C24 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 41 | 24 | 77 | 282 | 481 | 877 | 1241 | 1541 | 1908 | 1481 | 1272 |
| Pancreas | C25 | 0 | 0 | 1 | 0 | 0 | 10 | 7 | 59 | 114 | 181 | 698 | 1216 | 1625 | 2214 | 2301 | 2049 | 1503 | 1130 |
| Larynx | C32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 23 | 28 | 160 | 454 | 723 | 690 | 550 | 721 | 343 | 199 |
| Trachea, bronchus and lung | C33-C34 | 0 | 0 | 5 | 0 | 0 | 46 | 71 | 205 | 388 | 802 | 1889 | 4084 | 6049 | 7396 | 11 080 | 12 646 | 7755 | 5848 |
| Melanoma of skin etc. | C43-C44 | 0 | 0 | 1 | 6 | 8 | 16 | 28 | 83 | 103 | 75 | 169 | 330 | 338 | 737 | 866 | 701 | 602 | 735 |
| Prostate | C61 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 7 | 66 | 487 | 1844 | 4333 | 7797 | 10 615 | 9458 | 4869 | 3513 |
| Bladder | C67 | 5 | 0 | 0 | 0 | 0 | 10 | 46 | 49 | 188 | 254 | 402 | 1051 | 1286 | 1506 | 2280 | 2461 | 1687 | 1394 |
| Kidney, renal pelvis, ureter etc. | C64-C66 C68 | 16 | 23 | 0 | 0 | 1 | 23 | 29 | 85 | 262 | 306 | 649 | 1149 | 984 | 1565 | 1903 | 1462 | 765 | 536 |
| Brain and nervous system | C70-C72 | 31 | 44 | 89 | 48 | 129 | 63 | 85 | 59 | 114 | 100 | 126 | 194 | 269 | 293 | 285 | 294 | 178 | 95 |
| Thyroid | C73 | 0 | 0 | 0 | 18 | 36 | 58 | 81 | 105 | 65 | 123 | 215 | 361 | 247 | 245 | 221 | 217 | 106 | 28 |
| Malignant lymphoma | C81-85 C96 | 9 | 43 | 22 | 77 | 48 | 69 | 141 | 228 | 264 | 381 | 597 | 674 | 1046 | 1302 | 1604 | 1521 | 892 | 749 |
| Multiple myeloma | C88 C90 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 5 | 5 | 44 | 75 | 160 | 239 | 270 | 478 | 421 | 297 | 243 |
| All leukaemias | C91-C95 | 162 | 84 | 48 | 64 | 112 | 82 | 156 | 149 | 117 | 164 | 275 | 365 | 439 | 671 | 777 | 750 | 478 | 307 |

| Female | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------|-----|-----|-----|-----|-----|------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| All sites (incl. CIS) | C00–C96 D00–D09 | 248 | 178 | 209 | 298 | 972 | 2407 | 4945 | 6920 | 10 446 | 14 101 | 18 686 | 26 896 | 28 609 | 30 500 | 35 638 | 36 211 | 31 284 | 36 692 |
| All sites | C00–C96 | 248 | 178 | 209 | 285 | 596 | 1372 | 3149 | 5140 | 8819 | 12 773 | 17 301 | 25 607 | 27 125 | 29 124 | 34 121 | 34 887 | 30 392 | 36 040 |
| Lip, oral cavity and pharynx | C00–C14 | 0 | 2 | 14 | 4 | 21 | 28 | 80 | 30 | 53 | 144 | 124 | 280 | 362 | 440 | 520 | 508 | 346 | 542 |
| Esophagus | C15 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 10 | 81 | 147 | 258 | 279 | 328 | 329 | 378 | 395 | 467 |
| Stomach | C16 | 0 | 0 | 0 | 4 | 0 | 41 | 281 | 399 | 781 | 1087 | 1644 | 2922 | 3333 | 4238 | 5397 | 5993 | 5080 | 5835 |
| Colon | C18 | 0 | 0 | 17 | 0 | 7 | 25 | 117 | 173 | 356 | 703 | 1560 | 2313 | 3030 | 4278 | 4351 | 4720 | 4273 | 5146 |
| Rectum | C19–C20 | 0 | 0 | 0 | 0 | 0 | 6 | 63 | 189 | 324 | 474 | 926 | 1361 | 1635 | 1773 | 1764 | 1761 | 1408 | 1833 |
| Colon and rectum | C18–C20 | 0 | 0 | 17 | 0 | 7 | 31 | 180 | 362 | 680 | 1177 | 2486 | 3674 | 4665 | 6051 | 6115 | 6481 | 5681 | 6979 |
| Liver | C22 | 23 | 0 | 0 | 0 | 4 | 5 | 30 | 18 | 81 | 62 | 250 | 707 | 1122 | 1806 | 2569 | 2787 | 2060 | 1941 |
| Gallbladder etc. | C23–C24 | 0 | 0 | 0 | 0 | 5 | 0 | 6 | 24 | 30 | 68 | 209 | 262 | 512 | 801 | 1265 | 1553 | 1987 | 2677 |
| Pancreas | C25 | 0 | 0 | 0 | 0 | 2 | 8 | 12 | 20 | 73 | 160 | 295 | 762 | 891 | 1171 | 1734 | 2006 | 1873 | 2684 |
| Larynx | C32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 14 | 4 | 14 | 31 | 11 | 23 | 10 | 43 | 57 |
| Trachea, bronchus and lung | C33–C34 | 0 | 0 | 0 | 0 | 0 | 47 | 93 | 73 | 261 | 449 | 978 | 2186 | 2686 | 3021 | 3871 | 4159 | 3418 | 4375 |
| Melanoma of skin etc. | C43–C44 | 0 | 0 | 17 | 7 | 26 | 17 | 71 | 22 | 81 | 99 | 91 | 193 | 290 | 303 | 492 | 689 | 755 | 1189 |
| Breast (incl. CIS) | C50 D05 | 0 | 0 | 0 | 7 | 19 | 159 | 805 | 2092 | 4374 | 6139 | 6244 | 7245 | 6667 | 4930 | 4573 | 3352 | 2336 | 1753 |
| Breast (only invasive) | C50 | 0 | 0 | 0 | 7 | 19 | 146 | 761 | 1973 | 4038 | 5732 | 5751 | 6903 | 6246 | 4629 | 4275 | 3179 | 2218 | 1706 |
| Uterus (incl. CIS) | C53–C55 D06 | 0 | 0 | 6 | 28 | 413 | 1397 | 2412 | 2697 | 2455 | 2156 | 2446 | 3031 | 2157 | 1566 | 1589 | 1338 | 836 | 897 |
| Uterus (only invasive) | C53–C55 | 0 | 0 | 6 | 19 | 64 | 402 | 726 | 1142 | 1309 | 1439 | 1966 | 2676 | 1915 | 1378 | 1464 | 1286 | 804 | 880 |
| Cervix uteri | C53 | 0 | 0 | 0 | 19 | 50 | 334 | 553 | 908 | 920 | 704 | 857 | 1018 | 566 | 562 | 625 | 590 | 357 | 411 |
| Corpus uteri | C54 | 0 | 0 | 6 | 0 | 14 | 67 | 171 | 226 | 361 | 709 | 1088 | 1579 | 1298 | 764 | 797 | 585 | 313 | 211 |
| Ovary | C56 | 0 | 11 | 22 | 45 | 111 | 166 | 203 | 289 | 348 | 663 | 969 | 1186 | 985 | 805 | 757 | 629 | 513 | 602 |
| Bladder | C67 | 0 | 0 | 0 | 0 | 0 | 13 | 9 | 23 | 17 | 55 | 143 | 156 | 242 | 293 | 553 | 621 | 748 | 985 |
| Kidney, renal pelvis, ureter etc. | C64–C66 C68 | 15 | 35 | 2 | 10 | 9 | 29 | 17 | 32 | 83 | 93 | 281 | 433 | 474 | 521 | 812 | 725 | 662 | 651 |
| Brain and nervous system | C70–C72 | 46 | 32 | 51 | 17 | 28 | 21 | 88 | 56 | 76 | 96 | 191 | 177 | 258 | 317 | 258 | 247 | 279 | 329 |
| Thyroid | C73 | 0 | 0 | 4 | 22 | 110 | 200 | 279 | 313 | 451 | 626 | 672 | 935 | 857 | 767 | 663 | 522 | 361 | 311 |
| Malignant lymphoma | C81–85 C96 | 5 | 14 | 14 | 84 | 32 | 125 | 58 | 94 | 158 | 217 | 382 | 724 | 676 | 812 | 1076 | 981 | 895 | 977 |
| Multiple myeloma | C88 C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 13 | 55 | 44 | 183 | 224 | 269 | 330 | 293 | 400 | 356 |
| All leukaemias | C91–C95 | 60 | 66 | 37 | 35 | 58 | 47 | 174 | 77 | 93 | 180 | 196 | 343 | 388 | 387 | 393 | 498 | 388 | 412 |

Table 3. Age-specific incidence rate per 100 000 population in Japan according to sex and primary site, 2005

| Primary sites | ICD-10th | Age group (years) | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|-------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| | | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85+ |
| Male | | | | | | | | | | | | | | | | | | | |
| All sites (incl. CIS) | C00-C96, D00-D09 | 14.4 | 8.3 | 8.6 | 9.6 | 18.5 | 21.8 | 32.3 | 59.8 | 114.1 | 195.0 | 401.9 | 670.4 | 1135.1 | 1701.3 | 2414.8 | 3061.1 | 3291.8 | 3665.7 |
| All sites | C00-C96 | 14.4 | 8.1 | 8.6 | 9.5 | 18.5 | 21.3 | 32.0 | 57.7 | 108.8 | 186.7 | 384.4 | 647.8 | 1098.2 | 1643.7 | 2344.5 | 2980.7 | 3221.9 | 3612.9 |
| Lip, oral cavity and pharynx | C00-C14 | 0.0 | 0.2 | 0.5 | 0.1 | 1.0 | 0.9 | 1.2 | 1.6 | 3.0 | 6.7 | 12.4 | 22.2 | 27.8 | 29.3 | 34.9 | 46.7 | 40.4 | 40.9 |
| Esophagus | C15 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.5 | 7.9 | 16.4 | 35.0 | 56.9 | 80.3 | 85.7 | 102.1 | 97.8 | 76.3 |
| Stomach | C16 | 0.1 | 0.0 | 0.0 | 0.2 | 1.2 | 1.6 | 3.4 | 9.9 | 26.1 | 44.2 | 95.2 | 153.3 | 248.6 | 361.1 | 491.3 | 592.7 | 617.7 | 697.9 |
| Colon | C18 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 1.5 | 2.3 | 7.1 | 11.2 | 17.0 | 40.7 | 64.1 | 111.6 | 167.8 | 224.6 | 277.1 | 325.4 | 349.2 |
| Rectum | C19-C20 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.5 | 2.4 | 3.9 | 10.0 | 19.0 | 32.8 | 55.7 | 79.9 | 99.0 | 125.8 | 141.1 | 134.1 | 140.6 |
| Colon and rectum | C18-C20 | 0.0 | 0.0 | 0.0 | 0.3 | 0.1 | 2.0 | 4.8 | 10.9 | 21.2 | 36.0 | 73.5 | 119.9 | 191.5 | 266.7 | 350.5 | 418.2 | 459.6 | 489.8 |
| Liver | C22 | 0.5 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 1.1 | 3.6 | 6.7 | 13.0 | 34.7 | 55.0 | 99.0 | 136.1 | 192.1 | 209.0 | 200.2 | 177.7 |
| Gallbladder etc. | C23-C24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.9 | 0.6 | 2.0 | 6.4 | 9.5 | 21.1 | 35.0 | 50.7 | 84.6 | 121.1 | 156.9 |
| Pancreas | C25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 1.3 | 2.8 | 4.7 | 15.9 | 23.9 | 39.1 | 62.5 | 75.7 | 90.8 | 122.9 | 139.4 |
| Larynx | C32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.7 | 3.7 | 8.9 | 17.4 | 19.5 | 18.1 | 32.0 | 28.1 | 24.5 |
| Trachea, bronchus and lung | C33-C34 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 1.1 | 1.4 | 4.7 | 9.5 | 20.7 | 43.1 | 80.4 | 145.6 | 208.6 | 364.5 | 560.5 | 634.3 | 721.2 |
| Melanoma of skin etc. | C43-C44 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.4 | 0.6 | 1.9 | 2.5 | 1.9 | 3.9 | 6.5 | 8.1 | 20.8 | 28.5 | 31.1 | 49.2 | 90.6 |
| Prostate | C61 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 1.7 | 11.1 | 36.3 | 104.3 | 219.9 | 349.2 | 419.2 | 398.2 | 433.2 |
| Bladder | C67 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.9 | 1.1 | 4.6 | 6.6 | 9.2 | 20.7 | 31.0 | 42.5 | 75.0 | 109.1 | 138.0 | 171.9 |
| Kidney, renal pelvis, ureter etc. | C64-C66, C68 | 0.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 1.9 | 6.4 | 7.9 | 14.8 | 22.6 | 23.7 | 44.1 | 62.6 | 64.8 | 62.6 | 66.1 |
| Brain and nervous system | C70-C72 | 1.1 | 1.4 | 2.9 | 1.4 | 3.4 | 1.5 | 1.7 | 1.3 | 2.8 | 2.6 | 2.9 | 3.8 | 6.5 | 8.3 | 9.4 | 13.0 | 14.6 | 11.7 |
| Thyroid | C73 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.4 | 1.6 | 2.4 | 1.6 | 3.2 | 4.9 | 7.1 | 5.9 | 6.9 | 7.3 | 9.6 | 8.7 | 3.5 |
| Malignant lymphoma | C81-85, C96 | 0.3 | 1.4 | 0.7 | 2.3 | 1.3 | 1.6 | 2.9 | 5.2 | 6.5 | 9.9 | 13.6 | 13.3 | 25.2 | 36.7 | 52.8 | 67.4 | 73.0 | 92.4 |
| Multiple myeloma | C88, C90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 1.1 | 1.7 | 3.2 | 5.8 | 7.6 | 15.7 | 18.7 | 24.3 | 30.0 |
| All leukaemias | C91-C95 | 5.7 | 2.8 | 1.6 | 1.9 | 3.0 | 2.0 | 3.2 | 3.4 | 2.9 | 4.2 | 6.3 | 7.2 | 10.6 | 18.9 | 25.6 | 33.2 | 39.1 | 37.9 |

Female

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|-----|-----|-----|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| All sites (incl. CIS) | C00–C96, D00–D09 | 9.1 | 6.2 | 7.1 | 9.3 | 27.0 | 59.0 | 102.6 | 159.7 | 260.2 | 365.5 | 423.4 | 519.4 | 651.7 | 784.5 | 990.6 | 1204.4 | 1428.7 | 1734.2 |
| All sites | C00–C96 | 9.1 | 6.2 | 7.1 | 8.9 | 16.6 | 33.6 | 65.3 | 118.6 | 219.6 | 331.0 | 392.0 | 494.6 | 617.9 | 749.2 | 948.4 | 1160.4 | 1387.9 | 1703.4 |
| Lip, oral cavity and pharynx | C00–C14 | 0.0 | 0.1 | 0.5 | 0.1 | 0.6 | 0.7 | 1.7 | 0.7 | 1.3 | 3.7 | 2.8 | 5.4 | 8.2 | 11.3 | 14.5 | 16.9 | 15.8 | 25.6 |
| Esophagus | C15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 2.1 | 3.3 | 5.0 | 6.4 | 8.4 | 9.1 | 12.6 | 18.0 | 22.1 |
| Stomach | C16 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 1.0 | 5.8 | 9.2 | 19.5 | 28.2 | 37.3 | 56.4 | 75.9 | 109.0 | 150.0 | 199.3 | 232.0 | 275.8 |
| Colon | C18 | 0.0 | 0.0 | 0.6 | 0.0 | 0.2 | 0.6 | 2.4 | 4.0 | 8.9 | 18.2 | 35.3 | 44.7 | 69.0 | 110.0 | 120.9 | 157.0 | 195.1 | 243.2 |
| Rectum | C19–C20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.3 | 4.4 | 8.1 | 12.3 | 21.0 | 26.3 | 37.2 | 45.6 | 49.0 | 58.6 | 64.3 | 86.6 |
| Colon and rectum | C18–C20 | 0.0 | 0.0 | 0.6 | 0.0 | 0.2 | 0.8 | 3.7 | 8.4 | 16.9 | 30.5 | 56.3 | 71.0 | 106.3 | 155.6 | 170.0 | 215.6 | 259.4 | 329.9 |
| Liver | C22 | 0.8 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.6 | 0.4 | 2.0 | 1.6 | 5.7 | 13.7 | 25.6 | 46.5 | 71.4 | 92.7 | 94.1 | 91.7 |
| Gallbladder etc. | C23–C24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.6 | 0.7 | 1.8 | 4.7 | 5.1 | 11.7 | 20.6 | 35.2 | 51.7 | 90.7 | 126.5 |
| Pancreas | C25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.5 | 1.8 | 4.1 | 6.7 | 14.7 | 20.3 | 30.1 | 48.2 | 66.7 | 85.5 | 126.9 |
| Larynx | C32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.3 | 0.7 | 0.3 | 0.6 | 0.3 | 2.0 | 2.7 |
| Trachea, bronchus and lung | C33–C34 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.9 | 1.7 | 6.5 | 11.6 | 22.2 | 42.2 | 61.2 | 77.7 | 107.6 | 138.3 | 156.1 | 206.8 |
| Melanoma of skin etc. | C43–C44 | 0.0 | 0.0 | 0.6 | 0.2 | 0.7 | 0.4 | 1.5 | 0.5 | 2.0 | 2.6 | 2.1 | 3.7 | 6.6 | 7.8 | 13.7 | 22.9 | 34.5 | 56.2 |
| Breast (incl. CIS) | C50, D05 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 3.9 | 16.7 | 48.3 | 108.9 | 159.1 | 141.5 | 139.9 | 151.9 | 126.8 | 127.1 | 111.5 | 106.7 | 82.9 |
| Breast (only invasive) | C50 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 3.6 | 15.8 | 45.5 | 100.6 | 148.6 | 130.3 | 133.3 | 142.3 | 119.1 | 118.8 | 105.7 | 101.3 | 80.6 |
| Uterus (incl. CIS) | C53–C55, D06 | 0.0 | 0.0 | 0.2 | 0.9 | 11.5 | 34.2 | 50.0 | 62.2 | 61.1 | 55.9 | 55.4 | 58.5 | 49.1 | 40.3 | 44.2 | 44.5 | 38.2 | 42.4 |
| Uterus (only invasive) | C53–C55 | 0.0 | 0.0 | 0.2 | 0.6 | 1.8 | 9.8 | 15.1 | 26.4 | 32.6 | 37.3 | 44.5 | 51.7 | 43.6 | 35.4 | 40.7 | 42.8 | 36.7 | 41.6 |
| Cervix uteri | C53 | 0.0 | 0.0 | 0.0 | 0.6 | 1.4 | 8.2 | 11.5 | 21.0 | 22.9 | 18.2 | 19.4 | 19.7 | 12.9 | 14.5 | 17.4 | 19.6 | 16.3 | 19.4 |
| Corpus uteri | C54 | 0.0 | 0.0 | 0.2 | 0.0 | 0.4 | 1.6 | 3.5 | 5.2 | 9.0 | 18.4 | 24.7 | 30.5 | 29.6 | 19.7 | 22.2 | 19.5 | 14.3 | 10.0 |
| Ovary | C56 | 0.0 | 0.4 | 0.7 | 1.4 | 3.1 | 4.1 | 4.2 | 6.7 | 8.7 | 17.2 | 22.0 | 22.9 | 22.4 | 20.7 | 21.0 | 20.9 | 23.4 | 28.5 |
| Bladder | C67 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.5 | 0.4 | 1.4 | 3.2 | 3.0 | 5.5 | 7.5 | 15.4 | 20.7 | 34.2 | 46.6 |
| Kidney, renal pelvis, ureter etc. | C64–C66, C68 | 0.6 | 1.2 | 0.1 | 0.3 | 0.3 | 0.7 | 0.4 | 0.7 | 2.1 | 2.4 | 6.4 | 8.4 | 10.8 | 13.4 | 22.6 | 24.1 | 30.2 | 30.8 |
| Brain and nervous system | C70–C72 | 1.7 | 1.1 | 1.7 | 0.5 | 0.8 | 0.5 | 1.8 | 1.3 | 1.9 | 2.5 | 4.3 | 3.4 | 5.9 | 8.2 | 7.2 | 8.2 | 12.7 | 15.5 |
| Thyroid | C73 | 0.0 | 0.0 | 0.1 | 0.7 | 3.1 | 4.9 | 5.8 | 7.2 | 11.2 | 16.2 | 15.2 | 18.1 | 19.5 | 19.7 | 18.4 | 17.4 | 16.5 | 14.7 |
| Malignant lymphoma | C81–C85, C96 | 0.2 | 0.5 | 0.5 | 2.6 | 0.9 | 3.1 | 1.2 | 2.2 | 3.9 | 5.6 | 8.7 | 14.0 | 15.4 | 20.9 | 29.9 | 32.6 | 40.9 | 46.2 |
| Multiple myeloma | C88, C90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 1.4 | 1.0 | 3.5 | 5.1 | 6.9 | 9.2 | 9.7 | 18.3 | 16.8 |
| All leukaemias | C91–C95 | 2.2 | 2.3 | 1.3 | 1.1 | 1.6 | 1.2 | 3.6 | 1.8 | 2.3 | 4.7 | 4.4 | 6.6 | 8.8 | 10.0 | 10.9 | 16.6 | 17.7 | 19.5 |

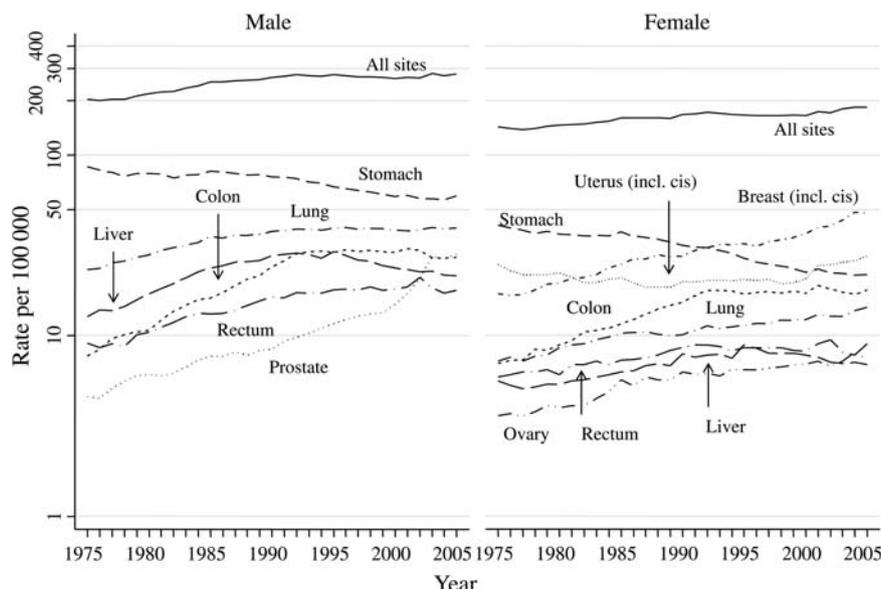


Figure 1. Trends of age-standardized cancer incidence rates for five major sites and specific sites for each sex (standard population: world population).

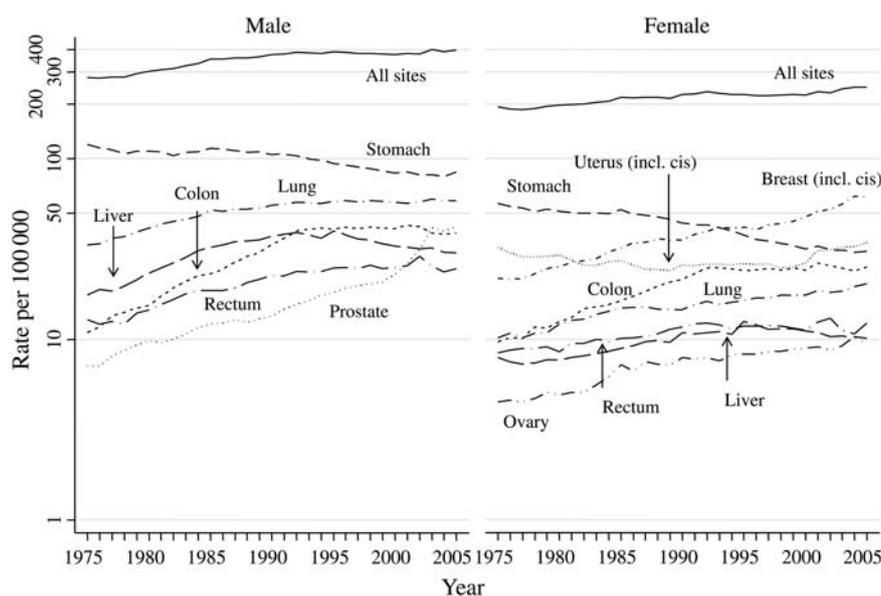


Figure 2. Trends of age-standardized cancer incidence rates for five major sites and specific sites for each sex (standard population: 1985 Japanese model population).

on the website (only available in Japanese, <http://ganjoho.jp/professional/statistics/monita.html>).

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Conflict of interest statement

None declared.

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