

Radiotherapy by body region: All cancers

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 23558 | 6172 | 27.1 | 5113 | 22.5 | 4398 | 19.3 | 1570 | 6.9 | 4789 | 21.1 | 3895 | 17.1 | 582 | 2.6 | 599 | 2.6 |
| | Age at baseline | <18 | 5290 | 1505 | 29.2 | 761 | 14.8 | 524 | 10.2 | 376 | 7.3 | 967 | 18.8 | 777 | 15.1 | 59 | 1.1 | 177 | 3.4 |
| | | 18-19 | 1964 | 592 | 30.9 | 268 | 14.0 | 206 | 10.8 | 126 | 6.6 | 350 | 18.3 | 284 | 14.8 | 24 | 1.3 | 50 | 2.6 |
| | | 20-24 | 5470 | 1572 | 29.7 | 965 | 18.2 | 780 | 14.7 | 397 | 7.5 | 1091 | 20.6 | 897 | 16.9 | 103 | 1.9 | 133 | 2.5 |
| | | 25-29 | 5110 | 1421 | 28.9 | 1212 | 24.7 | 1080 | 22.0 | 389 | 7.9 | 1044 | 21.3 | 866 | 17.6 | 144 | 2.9 | 123 | 2.5 |
| | | 30-34 | 3523 | 753 | 22.4 | 1078 | 32.1 | 1012 | 30.1 | 207 | 6.2 | 755 | 22.4 | 624 | 18.5 | 148 | 4.4 | 79 | 2.3 |
| | | 35+ | 2201 | 329 | 15.6 | 829 | 39.3 | 796 | 37.8 | 75 | 3.6 | 582 | 27.6 | 447 | 21.2 | 104 | 4.9 | 37 | 1.8 |
| | Years since diagnosis | 5-9 | 2383 | 797 | 34.7 | 609 | 26.5 | 495 | 21.5 | 238 | 10.4 | 532 | 23.1 | 441 | 19.2 | 94 | 4.1 | 88 | 3.8 |
| | | 10-14 | 7680 | 1959 | 26.2 | 1547 | 20.7 | 1310 | 17.5 | 480 | 6.4 | 1405 | 18.8 | 1160 | 15.5 | 157 | 2.1 | 228 | 3.1 |
| | | 15-19 | 7552 | 1978 | 27.1 | 1561 | 21.4 | 1374 | 18.8 | 428 | 5.9 | 1470 | 20.1 | 1182 | 16.2 | 174 | 2.4 | 182 | 2.5 |
| | | 20+ | 5943 | 1438 | 25.3 | 1396 | 24.6 | 1219 | 21.5 | 424 | 7.5 | 1382 | 24.3 | 1112 | 19.6 | 157 | 2.8 | 101 | 1.8 |
| | Age at diagnosis | <1 | 1778 | 152 | 8.7 | 127 | 7.3 | 58 | 3.3 | 25 | 1.4 | 226 | 12.9 | 149 | 8.5 | 9 | 0.5 | 48 | 2.7 |
| | | 1-4 | 7584 | 2359 | 32.1 | 1020 | 13.9 | 713 | 9.7 | 526 | 7.2 | 1504 | 20.5 | 1216 | 16.6 | 69 | 0.9 | 206 | 2.8 |
| | | 5-9 | 5282 | 1801 | 35.4 | 1116 | 22.0 | 963 | 18.9 | 558 | 11.0 | 1144 | 22.5 | 976 | 19.2 | 107 | 2.1 | 115 | 2.3 |
| | | 10-14 | 4993 | 1272 | 26.4 | 1394 | 28.9 | 1299 | 27.0 | 351 | 7.3 | 959 | 19.9 | 824 | 17.1 | 188 | 3.9 | 125 | 2.6 |
| | | 15-20 | 3921 | 588 | 15.6 | 1456 | 38.7 | 1365 | 36.3 | 110 | 2.9 | 956 | 25.4 | 730 | 19.4 | 209 | 5.6 | 105 | 2.8 |
| Males | All cases | | 12463 | 3428 | 28.5 | 2709 | 22.5 | 2419 | 20.1 | 935 | 7.8 | 2552 | 21.2 | 2129 | 17.7 | 299 | 2.5 | 334 | 2.8 |
| | Age at baseline | <18 | 2841 | 863 | 31.3 | 415 | 15.1 | 297 | 10.8 | 217 | 7.9 | 524 | 19.0 | 432 | 15.7 | 31 | 1.1 | 109 | 4.0 |
| | | 18-19 | 1014 | 321 | 32.4 | 158 | 16.0 | 138 | 13.9 | 77 | 7.8 | 175 | 17.7 | 147 | 14.8 | 14 | 1.4 | 31 | 3.1 |
| | | 20-24 | 2840 | 835 | 30.4 | 539 | 19.6 | 463 | 16.9 | 238 | 8.7 | 562 | 20.5 | 479 | 17.4 | 48 | 1.7 | 68 | 2.5 |
| | | 25-29 | 2800 | 812 | 30.2 | 684 | 25.4 | 624 | 23.2 | 240 | 8.9 | 594 | 22.1 | 501 | 18.6 | 79 | 2.9 | 65 | 2.4 |
| | | 30-34 | 1856 | 407 | 22.9 | 538 | 30.3 | 529 | 29.8 | 120 | 6.8 | 401 | 22.6 | 329 | 18.5 | 77 | 4.3 | 40 | 2.3 |
| | | 35+ | 1112 | 190 | 17.8 | 375 | 35.1 | 368 | 34.5 | 43 | 4.0 | 296 | 27.7 | 241 | 22.6 | 50 | 4.7 | 21 | 2.0 |
| | Years since diagnosis | 5-9 | 1326 | 476 | 37.2 | 350 | 27.3 | 294 | 23.0 | 149 | 11.7 | 297 | 23.2 | 261 | 20.4 | 51 | 4.0 | 56 | 4.4 |
| | | 10-14 | 4084 | 1118 | 28.2 | 816 | 20.6 | 717 | 18.1 | 276 | 7.0 | 753 | 19.0 | 624 | 15.7 | 82 | 2.1 | 124 | 3.1 |
| | | 15-19 | 3918 | 1055 | 27.9 | 818 | 21.6 | 765 | 20.2 | 268 | 7.1 | 772 | 20.4 | 643 | 17.0 | 89 | 2.4 | 92 | 2.4 |
| | | 20+ | 3135 | 779 | 26.0 | 725 | 24.2 | 643 | 21.5 | 242 | 8.1 | 730 | 24.4 | 601 | 20.1 | 77 | 2.6 | 62 | 2.1 |
| | Age at diagnosis | <1 | 901 | 86 | 9.7 | 66 | 7.5 | 31 | 3.5 | 17 | 1.9 | 113 | 12.8 | 78 | 8.8 | 8 | 0.9 | 31 | 3.5 |
| | | 1-4 | 3934 | 1263 | 33.3 | 551 | 14.5 | 404 | 10.7 | 300 | 7.9 | 763 | 20.1 | 635 | 16.7 | 31 | 0.8 | 121 | 3.2 |
| | | 5-9 | 2955 | 1034 | 36.3 | 666 | 23.4 | 614 | 21.6 | 349 | 12.3 | 659 | 23.2 | 573 | 20.1 | 51 | 1.8 | 63 | 2.2 |
| | | 10-14 | 2603 | 684 | 27.2 | 719 | 28.6 | 695 | 27.6 | 195 | 7.8 | 502 | 20.0 | 437 | 17.4 | 98 | 3.9 | 59 | 2.3 |
| | | 15-20 | 2070 | 361 | 18.2 | 707 | 35.6 | 675 | 34.0 | 74 | 3.7 | 515 | 25.9 | 406 | 20.4 | 111 | 5.6 | 60 | 3.0 |
| Females | All cases | | 11095 | 2744 | 25.6 | 2404 | 22.4 | 1979 | 18.5 | 635 | 5.9 | 2237 | 20.9 | 1766 | 16.5 | 283 | 2.6 | 265 | 2.5 |
| | Age at baseline | <18 | 2449 | 642 | 26.8 | 346 | 14.4 | 227 | 9.5 | 159 | 6.6 | 443 | 18.5 | 345 | 14.4 | 28 | 1.2 | 68 | 2.8 |
| | | 18-19 | 950 | 271 | 29.3 | 110 | 11.9 | 68 | 7.4 | 49 | 5.3 | 175 | 18.9 | 137 | 14.8 | 10 | 1.1 | 19 | 2.1 |
| | | 20-24 | 2630 | 737 | 28.9 | 426 | 16.7 | 317 | 12.4 | 159 | 6.2 | 529 | 20.7 | 418 | 16.4 | 55 | 2.2 | 65 | 2.5 |
| | | 25-29 | 2310 | 609 | 27.4 | 528 | 23.8 | 456 | 20.5 | 149 | 6.7 | 450 | 20.3 | 365 | 16.4 | 65 | 2.9 | 58 | 2.6 |
| | | 30-34 | 1667 | 346 | 21.8 | 540 | 34.0 | 483 | 30.4 | 87 | 5.5 | 354 | 22.3 | 295 | 18.6 | 71 | 4.5 | 39 | 2.5 |
| | | 35+ | 1089 | 139 | 13.4 | 454 | 43.6 | 428 | 41.1 | 32 | 3.1 | 286 | 27.5 | 206 | 19.8 | 54 | 5.2 | 16 | 1.5 |
| | Years since diagnosis | 5-9 | 1057 | 321 | 31.5 | 259 | 25.4 | 201 | 19.7 | 89 | 8.7 | 235 | 23.0 | 180 | 17.6 | 43 | 4.2 | 32 | 3.1 |
| | | 10-14 | 3596 | 841 | 24.0 | 731 | 20.9 | 593 | 16.9 | 204 | 5.8 | 652 | 18.6 | 536 | 15.3 | 75 | 2.1 | 104 | 3.0 |
| | | 15-19 | 3634 | 923 | 26.2 | 743 | 21.1 | 609 | 17.3 | 160 | 4.5 | 698 | 19.8 | 539 | 15.3 | 85 | 2.4 | 90 | 2.6 |
| | | 20+ | 2808 | 659 | 24.6 | 671 | 25.0 | 576 | 21.5 | 182 | 6.8 | 652 | 24.3 | 511 | 19.1 | 80 | 3.0 | 39 | 1.5 |
| | Age at diagnosis | <1 | 877 | 66 | 7.7 | 61 | 7.1 | 27 | 3.1 | 8 | 0.9 | 113 | 13.1 | 71 | 8.2 | 1 | 0.1 | 17 | 2.0 |
| | | 1-4 | 3650 | 1096 | 30.9 | 469 | 13.2 | 309 | 8.7 | 226 | 6.4 | 741 | 20.9 | 581 | 16.4 | 38 | 1.1 | 85 | 2.4 |
| | | 5-9 | 2327 | 767 | 34.3 | 450 | 20.1 | 349 | 15.6 | 209 | 9.3 | 485 | 21.7 | 403 | 18.0 | 56 | 2.5 | 52 | 2.3 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: All cancers

| | | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | |
|--|--|-------|-----------|-------|------|-------|------|------|------|-------|-----|---------|------|--------|------|------|-----|-----|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 2390 | 588 | 25.5 | 675 | 29.3 | 604 | 26.2 | 156 | 6.8 | 457 | 19.8 | 387 | 16.8 | 90 | 3.9 | 66 | 2.9 |
| | | 15-20 | 1851 | 227 | 12.8 | 749 | 42.2 | 690 | 38.9 | 36 | 2.0 | 441 | 24.8 | 324 | 18.3 | 98 | 5.5 | 45 | 2.5 |

Radiotherapy by body region: All leukemias

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 7245 | 3192 | 45.5 | 573 | 8.2 | 528 | 7.5 | 502 | 7.2 | 536 | 7.6 | 526 | 7.5 | 21 | 0.3 | 431 | 6.2 |
| | Age at baseline | <18 | 2096 | 835 | 40.8 | 146 | 7.1 | 135 | 6.6 | 127 | 6.2 | 132 | 6.5 | 132 | 6.5 | 5 | 0.2 | 122 | 6.0 |
| | | 18-19 | 769 | 352 | 46.9 | 39 | 5.2 | 36 | 4.8 | 37 | 4.9 | 44 | 5.9 | 42 | 5.6 | 1 | 0.1 | 40 | 5.3 |
| | | 20-24 | 1788 | 821 | 47.3 | 123 | 7.1 | 114 | 6.6 | 112 | 6.5 | 122 | 7.0 | 118 | 6.8 | 2 | 0.1 | 91 | 5.2 |
| | | 25-29 | 1459 | 673 | 47.7 | 141 | 10.0 | 130 | 9.2 | 122 | 8.6 | 125 | 8.9 | 124 | 8.8 | 3 | 0.2 | 90 | 6.4 |
| | | 30-34 | 761 | 337 | 47.0 | 72 | 10.1 | 69 | 9.6 | 63 | 8.8 | 67 | 9.4 | 66 | 9.2 | 8 | 1.1 | 57 | 8.0 |
| | | 35+ | 372 | 174 | 49.7 | 52 | 14.9 | 44 | 12.6 | 41 | 11.7 | 46 | 13.1 | 44 | 12.6 | 2 | 0.6 | 31 | 8.9 |
| | Years since diagnosis | 5-9 | 904 | 390 | 44.6 | 101 | 11.6 | 92 | 10.5 | 86 | 9.9 | 91 | 10.4 | 90 | 10.3 | 4 | 0.5 | 63 | 7.2 |
| | | 10-14 | 2445 | 993 | 41.6 | 125 | 5.2 | 109 | 4.6 | 102 | 4.3 | 109 | 4.6 | 107 | 4.5 | 5 | 0.2 | 174 | 7.3 |
| | | 15-19 | 2236 | 1053 | 48.6 | 117 | 5.4 | 107 | 4.9 | 101 | 4.7 | 116 | 5.4 | 112 | 5.2 | 5 | 0.2 | 126 | 5.8 |
| | | 20+ | 1660 | 756 | 47.7 | 230 | 14.5 | 220 | 13.9 | 213 | 13.4 | 220 | 13.9 | 217 | 13.7 | 7 | 0.4 | 68 | 4.3 |
| | Age at diagnosis | <1 | 232 | 49 | 21.9 | 12 | 5.4 | 12 | 5.4 | 12 | 5.4 | 13 | 5.8 | 15 | 6.7 | 1 | 0.4 | 37 | 16.5 |
| | | 1-4 | 3421 | 1498 | 44.9 | 268 | 8.0 | 258 | 7.7 | 251 | 7.5 | 261 | 7.8 | 258 | 7.7 | 9 | 0.3 | 130 | 3.9 |
| | | 5-9 | 1754 | 787 | 46.5 | 135 | 8.0 | 121 | 7.2 | 117 | 6.9 | 125 | 7.4 | 120 | 7.1 | 4 | 0.2 | 86 | 5.1 |
| | | 10-14 | 1203 | 586 | 50.5 | 110 | 9.5 | 95 | 8.2 | 90 | 7.8 | 101 | 8.7 | 95 | 8.2 | 1 | 0.1 | 93 | 8.0 |
| | | 15-20 | 635 | 272 | 45.3 | 48 | 8.0 | 42 | 7.0 | 32 | 5.3 | 36 | 6.0 | 38 | 6.3 | 6 | 1.0 | 85 | 14.2 |
| Males | All cases | | 3827 | 1730 | 46.9 | 322 | 8.7 | 292 | 7.9 | 280 | 7.6 | 296 | 8.0 | 288 | 7.8 | 8 | 0.2 | 240 | 6.5 |
| | Age at baseline | <18 | 1136 | 480 | 43.4 | 78 | 7.1 | 73 | 6.6 | 68 | 6.2 | 72 | 6.5 | 71 | 6.4 | 1 | 0.1 | 77 | 7.0 |
| | | 18-19 | 411 | 196 | 49.0 | 27 | 6.8 | 25 | 6.3 | 26 | 6.5 | 28 | 7.0 | 27 | 6.8 | 1 | 0.3 | 25 | 6.3 |
| | | 20-24 | 891 | 415 | 47.9 | 62 | 7.2 | 58 | 6.7 | 57 | 6.6 | 62 | 7.2 | 59 | 6.8 | 1 | 0.1 | 49 | 5.7 |
| | | 25-29 | 783 | 367 | 48.9 | 90 | 12.0 | 79 | 10.5 | 77 | 10.3 | 78 | 10.4 | 78 | 10.4 | 2 | 0.3 | 47 | 6.3 |
| | | 30-34 | 397 | 171 | 46.0 | 37 | 9.9 | 35 | 9.4 | 33 | 8.9 | 34 | 9.1 | 34 | 9.1 | 3 | 0.8 | 26 | 7.0 |
| | | 35+ | 209 | 101 | 52.3 | 28 | 14.5 | 22 | 11.4 | 19 | 9.8 | 22 | 11.4 | 19 | 9.8 | . | . | 16 | 8.3 |
| | Years since diagnosis | 5-9 | 510 | 240 | 48.8 | 60 | 12.2 | 56 | 11.4 | 53 | 10.8 | 55 | 11.2 | 54 | 11.0 | 1 | 0.2 | 42 | 8.6 |
| | | 10-14 | 1301 | 564 | 44.4 | 67 | 5.3 | 57 | 4.5 | 54 | 4.3 | 57 | 4.5 | 56 | 4.4 | 3 | 0.2 | 94 | 7.4 |
| | | 15-19 | 1136 | 525 | 47.9 | 67 | 6.1 | 61 | 5.6 | 58 | 5.3 | 65 | 5.9 | 62 | 5.7 | 2 | 0.2 | 64 | 5.8 |
| | | 20+ | 880 | 401 | 48.2 | 128 | 15.4 | 118 | 14.2 | 115 | 13.8 | 119 | 14.3 | 116 | 13.9 | 2 | 0.2 | 40 | 4.8 |
| | Age at diagnosis | <1 | 110 | 27 | 25.5 | 6 | 5.7 | 6 | 5.7 | 6 | 5.7 | 7 | 6.6 | 7 | 6.6 | 1 | 0.9 | 24 | 22.6 |
| | | 1-4 | 1809 | 798 | 45.4 | 145 | 8.3 | 141 | 8.0 | 136 | 7.7 | 141 | 8.0 | 140 | 8.0 | 1 | 0.1 | 79 | 4.5 |
| | | 5-9 | 935 | 440 | 48.8 | 83 | 9.2 | 73 | 8.1 | 74 | 8.2 | 78 | 8.7 | 75 | 8.3 | 3 | 0.3 | 49 | 5.5 |
| | | 10-14 | 588 | 290 | 51.3 | 55 | 9.8 | 46 | 8.2 | 42 | 7.4 | 45 | 8.0 | 42 | 7.4 | . | . | 39 | 6.9 |
| | | 15-20 | 385 | 175 | 48.7 | 33 | 9.2 | 26 | 7.3 | 22 | 6.1 | 25 | 7.0 | 24 | 6.7 | 3 | 0.8 | 49 | 13.7 |
| Females | All cases | | 3418 | 1462 | 44.0 | 251 | 7.5 | 236 | 7.1 | 222 | 6.7 | 240 | 7.2 | 238 | 7.2 | 13 | 0.4 | 191 | 5.7 |
| | Age at baseline | <18 | 960 | 355 | 37.7 | 68 | 7.2 | 62 | 6.6 | 59 | 6.3 | 60 | 6.4 | 61 | 6.5 | 4 | 0.4 | 45 | 4.8 |
| | | 18-19 | 358 | 156 | 44.4 | 12 | 3.4 | 11 | 3.1 | 11 | 3.1 | 16 | 4.6 | 15 | 4.3 | . | . | 15 | 4.3 |
| | | 20-24 | 897 | 406 | 46.6 | 61 | 7.0 | 56 | 6.4 | 55 | 6.3 | 60 | 6.9 | 59 | 6.8 | 1 | 0.1 | 42 | 4.8 |
| | | 25-29 | 676 | 306 | 46.3 | 51 | 7.7 | 51 | 7.7 | 45 | 6.8 | 47 | 7.1 | 46 | 7.0 | 1 | 0.2 | 43 | 6.5 |
| | | 30-34 | 364 | 166 | 48.1 | 35 | 10.2 | 34 | 9.9 | 30 | 8.7 | 33 | 9.6 | 32 | 9.3 | 5 | 1.4 | 31 | 9.0 |
| | | 35+ | 163 | 73 | 46.5 | 24 | 15.3 | 22 | 14.0 | 22 | 14.0 | 24 | 15.3 | 25 | 15.9 | 2 | 1.3 | 15 | 9.6 |
| | Years since diagnosis | 5-9 | 394 | 150 | 39.2 | 41 | 10.7 | 36 | 9.4 | 33 | 8.6 | 36 | 9.4 | 36 | 9.4 | 3 | 0.8 | 21 | 5.5 |
| | | 10-14 | 1144 | 429 | 38.4 | 58 | 5.2 | 52 | 4.7 | 48 | 4.3 | 52 | 4.7 | 51 | 4.6 | 2 | 0.2 | 80 | 7.2 |
| | | 15-19 | 1100 | 528 | 49.3 | 50 | 4.7 | 46 | 4.3 | 43 | 4.0 | 51 | 4.8 | 50 | 4.7 | 3 | 0.3 | 62 | 5.8 |
| | | 20+ | 780 | 355 | 47.1 | 102 | 13.5 | 102 | 13.5 | 98 | 13.0 | 101 | 13.4 | 101 | 13.4 | 5 | 0.7 | 28 | 3.7 |
| | Age at diagnosis | <1 | 122 | 22 | 18.6 | 6 | 5.1 | 6 | 5.1 | 6 | 5.1 | 6 | 5.1 | 8 | 6.8 | . | . | 13 | 11.0 |
| | | 1-4 | 1612 | 700 | 44.3 | 123 | 7.8 | 117 | 7.4 | 115 | 7.3 | 120 | 7.6 | 118 | 7.5 | 8 | 0.5 | 51 | 3.2 |
| | | 5-9 | 819 | 347 | 43.9 | 52 | 6.6 | 48 | 6.1 | 43 | 5.4 | 47 | 5.9 | 45 | 5.7 | 1 | 0.1 | 37 | 4.7 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: All leukemias

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|-----|-------|----|------|----|-------|----|---------|----|--------|----|------|---|-----|----|------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 615 | 296 | 49.7 | 55 | 9.2 | 49 | 8.2 | 48 | 8.1 | 56 | 9.4 | 53 | 8.9 | 1 | 0.2 | 54 | 9.1 |
| | | 15-20 | 250 | 97 | 40.1 | 15 | 6.2 | 16 | 6.6 | 10 | 4.1 | 11 | 4.5 | 14 | 5.8 | 3 | 1.2 | 36 | 14.9 |

Radiotherapy by body region: ALL

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 6067 | 3012 | 51.1 | 524 | 8.9 | 489 | 8.3 | 468 | 8.0 | 492 | 8.4 | 486 | 8.3 | 17 | 0.3 | 185 | 3.1 |
| | Age at baseline | <18 | 1812 | 789 | 44.5 | 138 | 7.8 | 125 | 7.1 | 120 | 6.8 | 123 | 7.0 | 123 | 7.0 | 4 | 0.2 | 67 | 3.8 |
| | | 18-19 | 666 | 333 | 51.2 | 38 | 5.8 | 36 | 5.5 | 37 | 5.7 | 41 | 6.3 | 40 | 6.1 | . | . | 20 | 3.1 |
| | | 20-24 | 1524 | 780 | 52.5 | 109 | 7.3 | 102 | 6.9 | 100 | 6.7 | 110 | 7.4 | 105 | 7.1 | 2 | 0.1 | 35 | 2.4 |
| | | 25-29 | 1207 | 632 | 54.1 | 131 | 11.2 | 123 | 10.5 | 116 | 9.9 | 117 | 10.0 | 117 | 10.0 | 1 | 0.1 | 35 | 3.0 |
| | | 30-34 | 590 | 322 | 57.5 | 65 | 11.6 | 65 | 11.6 | 60 | 10.7 | 62 | 11.1 | 63 | 11.3 | 8 | 1.4 | 20 | 3.6 |
| | | 35+ | 268 | 156 | 61.9 | 43 | 17.1 | 38 | 15.1 | 35 | 13.9 | 39 | 15.5 | 38 | 15.1 | 2 | 0.8 | 8 | 3.2 |
| | Years since diagnosis | 5-9 | 777 | 379 | 50.1 | 97 | 12.8 | 89 | 11.8 | 84 | 11.1 | 87 | 11.5 | 87 | 11.5 | 3 | 0.4 | 31 | 4.1 |
| | | 10-14 | 2049 | 931 | 46.4 | 115 | 5.7 | 102 | 5.1 | 97 | 4.8 | 102 | 5.1 | 100 | 5.0 | 4 | 0.2 | 72 | 3.6 |
| | | 15-19 | 1847 | 994 | 55.4 | 104 | 5.8 | 97 | 5.4 | 92 | 5.1 | 102 | 5.7 | 100 | 5.6 | 4 | 0.2 | 57 | 3.2 |
| | | 20+ | 1394 | 708 | 53.0 | 208 | 15.6 | 201 | 15.1 | 195 | 14.6 | 201 | 15.1 | 199 | 14.9 | 6 | 0.4 | 25 | 1.9 |
| | Age at diagnosis | <1 | 127 | 33 | 27.3 | 10 | 8.3 | 10 | 8.3 | 10 | 8.3 | 10 | 8.3 | 11 | 9.1 | . | . | 21 | 17.4 |
| | | 1-4 | 3030 | 1423 | 48.1 | 247 | 8.4 | 236 | 8.0 | 232 | 7.9 | 240 | 8.1 | 237 | 8.0 | 8 | 0.3 | 66 | 2.2 |
| | | 5-9 | 1537 | 763 | 51.2 | 130 | 8.7 | 117 | 7.9 | 114 | 7.7 | 122 | 8.2 | 117 | 7.9 | 3 | 0.2 | 43 | 2.9 |
| | | 10-14 | 940 | 541 | 59.3 | 96 | 10.5 | 86 | 9.4 | 82 | 9.0 | 87 | 9.5 | 85 | 9.3 | 1 | 0.1 | 27 | 3.0 |
| | | 15-20 | 433 | 252 | 61.5 | 41 | 10.0 | 40 | 9.8 | 30 | 7.3 | 33 | 8.1 | 36 | 8.8 | 5 | 1.2 | 28 | 6.8 |
| Males | All cases | | 3231 | 1632 | 52.3 | 294 | 9.4 | 271 | 8.7 | 262 | 8.4 | 274 | 8.8 | 269 | 8.6 | 5 | 0.2 | 119 | 3.8 |
| | Age at baseline | <18 | 982 | 452 | 47.3 | 73 | 7.7 | 67 | 7.0 | 64 | 6.7 | 66 | 6.9 | 66 | 6.9 | 1 | 0.1 | 43 | 4.5 |
| | | 18-19 | 359 | 186 | 53.3 | 27 | 7.7 | 25 | 7.2 | 26 | 7.4 | 28 | 8.0 | 27 | 7.7 | . | . | 16 | 4.6 |
| | | 20-24 | 759 | 392 | 53.0 | 55 | 7.5 | 52 | 7.0 | 51 | 6.9 | 56 | 7.6 | 53 | 7.2 | 1 | 0.1 | 20 | 2.7 |
| | | 25-29 | 660 | 347 | 54.7 | 82 | 13.0 | 75 | 11.8 | 73 | 11.5 | 73 | 11.5 | 74 | 11.7 | . | . | 23 | 3.6 |
| | | 30-34 | 313 | 163 | 55.3 | 33 | 11.2 | 32 | 10.8 | 31 | 10.5 | 32 | 10.8 | 32 | 10.8 | 3 | 1.0 | 12 | 4.1 |
| | | 35+ | 158 | 92 | 63.4 | 24 | 16.6 | 20 | 13.8 | 17 | 11.7 | 19 | 13.1 | 17 | 11.7 | . | . | 5 | 3.4 |
| | Years since diagnosis | 5-9 | 440 | 232 | 54.3 | 59 | 13.9 | 55 | 12.9 | 53 | 12.5 | 55 | 12.9 | 54 | 12.7 | 1 | 0.2 | 20 | 4.7 |
| | | 10-14 | 1099 | 527 | 49.2 | 59 | 5.5 | 51 | 4.8 | 49 | 4.6 | 51 | 4.8 | 51 | 4.8 | 2 | 0.2 | 46 | 4.3 |
| | | 15-19 | 949 | 496 | 54.1 | 60 | 6.6 | 55 | 6.0 | 53 | 5.8 | 58 | 6.3 | 56 | 6.1 | 1 | 0.1 | 36 | 3.9 |
| | | 20+ | 743 | 377 | 53.5 | 116 | 16.5 | 110 | 15.6 | 107 | 15.2 | 110 | 15.6 | 108 | 15.3 | 1 | 0.1 | 17 | 2.4 |
| | Age at diagnosis | <1 | 63 | 16 | 26.7 | 4 | 6.7 | 4 | 6.7 | 4 | 6.7 | 4 | 6.7 | 4 | 6.7 | . | . | 14 | 23.3 |
| | | 1-4 | 1591 | 759 | 49.1 | 135 | 8.7 | 130 | 8.4 | 127 | 8.2 | 131 | 8.5 | 131 | 8.5 | 1 | 0.1 | 44 | 2.9 |
| | | 5-9 | 829 | 427 | 53.2 | 79 | 9.9 | 71 | 8.9 | 72 | 9.0 | 76 | 9.5 | 73 | 9.1 | 2 | 0.3 | 29 | 3.6 |
| | | 10-14 | 476 | 268 | 58.5 | 47 | 10.3 | 41 | 9.0 | 38 | 8.3 | 40 | 8.8 | 38 | 8.3 | . | . | 14 | 3.1 |
| | | 15-20 | 272 | 162 | 64.0 | 29 | 11.5 | 25 | 9.9 | 21 | 8.3 | 23 | 9.1 | 23 | 9.1 | 2 | 0.8 | 18 | 7.1 |
| Females | All cases | | 2836 | 1380 | 49.8 | 230 | 8.3 | 218 | 7.9 | 206 | 7.4 | 218 | 7.9 | 217 | 7.8 | 12 | 0.4 | 66 | 2.4 |
| | Age at baseline | <18 | 830 | 337 | 41.3 | 65 | 8.0 | 58 | 7.1 | 56 | 6.9 | 57 | 7.0 | 57 | 7.0 | 3 | 0.4 | 24 | 2.9 |
| | | 18-19 | 307 | 147 | 48.7 | 11 | 3.6 | 11 | 3.6 | 11 | 3.6 | 13 | 4.3 | 13 | 4.3 | . | . | 4 | 1.3 |
| | | 20-24 | 765 | 388 | 51.9 | 54 | 7.2 | 50 | 6.7 | 49 | 6.6 | 54 | 7.2 | 52 | 7.0 | 1 | 0.1 | 15 | 2.0 |
| | | 25-29 | 547 | 285 | 53.3 | 49 | 9.2 | 48 | 9.0 | 43 | 8.0 | 44 | 8.2 | 43 | 8.0 | 1 | 0.2 | 12 | 2.2 |
| | | 30-34 | 277 | 159 | 60.0 | 32 | 12.1 | 33 | 12.5 | 29 | 11.0 | 30 | 11.4 | 31 | 11.7 | 5 | 1.9 | 8 | 3.0 |
| | | 35+ | 110 | 64 | 59.8 | 19 | 17.8 | 18 | 16.8 | 18 | 16.8 | 20 | 18.7 | 21 | 19.6 | 2 | 1.9 | 3 | 2.8 |
| | Years since diagnosis | 5-9 | 337 | 147 | 44.5 | 38 | 11.5 | 34 | 10.3 | 31 | 9.4 | 32 | 9.7 | 33 | 10.0 | 2 | 0.6 | 11 | 3.3 |
| | | 10-14 | 950 | 404 | 43.2 | 56 | 6.0 | 51 | 5.5 | 48 | 5.1 | 51 | 5.5 | 49 | 5.2 | 2 | 0.2 | 26 | 2.8 |
| | | 15-19 | 898 | 498 | 56.8 | 44 | 5.0 | 42 | 4.8 | 39 | 4.4 | 44 | 5.0 | 44 | 5.0 | 3 | 0.3 | 21 | 2.4 |
| | | 20+ | 651 | 331 | 52.5 | 92 | 14.6 | 91 | 14.5 | 88 | 14.0 | 91 | 14.5 | 91 | 14.5 | 5 | 0.8 | 8 | 1.3 |
| | Age at diagnosis | <1 | 64 | 17 | 27.9 | 6 | 9.8 | 6 | 9.8 | 6 | 9.8 | 6 | 9.8 | 7 | 11.5 | . | . | 7 | 11.5 |
| | | 1-4 | 1439 | 664 | 47.1 | 112 | 7.9 | 106 | 7.5 | 105 | 7.4 | 109 | 7.7 | 106 | 7.5 | 7 | 0.5 | 22 | 1.6 |
| | | 5-9 | 708 | 336 | 48.8 | 51 | 7.4 | 46 | 6.7 | 42 | 6.1 | 46 | 6.7 | 44 | 6.4 | 1 | 0.1 | 14 | 2.0 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: ALL

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|-----|-------|----|------|----|-------|----|---------|----|--------|----|------|---|-----|----|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 464 | 273 | 60.1 | 49 | 10.8 | 45 | 9.9 | 44 | 9.7 | 47 | 10.4 | 47 | 10.4 | 1 | 0.2 | 13 | 2.9 |
| | | 15-20 | 161 | 90 | 57.3 | 12 | 7.6 | 15 | 9.6 | 9 | 5.7 | 10 | 6.4 | 13 | 8.3 | 3 | 1.9 | 10 | 6.4 |

Radiotherapy by body region: AML

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|------------|------------|-------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|----------|------------|------------|-------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 871 | 123 | 14.6 | 23 | 2.7 | 21 | 2.5 | 18 | 2.1 | 24 | 2.9 | 20 | 2.4 | 2 | 0.2 | 156 | 18.6 |
| | Age at baseline | <18 | 225 | 34 | 15.3 | 4 | 1.8 | 5 | 2.3 | 4 | 1.8 | 6 | 2.7 | 5 | 2.3 | . | . | 39 | 17.6 |
| | | 18-19 | 82 | 15 | 18.8 | 1 | 1.3 | . | . | . | . | 2 | 2.5 | 1 | 1.3 | 1 | 1.3 | 15 | 18.8 |
| | | 20-24 | 191 | 23 | 12.8 | 6 | 3.3 | 6 | 3.3 | 6 | 3.3 | 6 | 3.3 | 6 | 3.3 | . | . | 39 | 21.7 |
| | | 25-29 | 186 | 29 | 16.1 | 4 | 2.2 | 4 | 2.2 | 3 | 1.7 | 3 | 1.7 | 3 | 1.7 | 1 | 0.6 | 33 | 18.3 |
| | | 30-34 | 118 | 12 | 10.7 | 3 | 2.7 | 3 | 2.7 | 2 | 1.8 | 3 | 2.7 | 2 | 1.8 | . | . | 19 | 17.0 |
| | | 35+ | 69 | 10 | 15.2 | 5 | 7.6 | 3 | 4.5 | 3 | 4.5 | 4 | 6.1 | 3 | 4.5 | . | . | 11 | 16.7 |
| | Years since diagnosis | 5-9 | 81 | 3 | 3.9 | 1 | 1.3 | . | . | . | . | 1 | 1.3 | . | . | . | . | 20 | 26.3 |
| | | 10-14 | 307 | 47 | 15.8 | 5 | 1.7 | 5 | 1.7 | 4 | 1.3 | 5 | 1.7 | 5 | 1.7 | 1 | 0.3 | 65 | 21.8 |
| | | 15-19 | 301 | 50 | 17.1 | 9 | 3.1 | 9 | 3.1 | 8 | 2.7 | 11 | 3.8 | 9 | 3.1 | 1 | 0.3 | 46 | 15.8 |
| | | 20+ | 182 | 23 | 13.2 | 8 | 4.6 | 7 | 4.0 | 6 | 3.4 | 7 | 4.0 | 6 | 3.4 | . | . | 25 | 14.4 |
| | Age at diagnosis | <1 | 90 | 15 | 16.9 | 2 | 2.2 | 2 | 2.2 | 2 | 2.2 | 3 | 3.4 | 3 | 3.4 | 1 | 1.1 | 10 | 11.2 |
| | | 1-4 | 299 | 47 | 16.0 | 9 | 3.1 | 10 | 3.4 | 9 | 3.1 | 11 | 3.8 | 10 | 3.4 | . | . | 47 | 16.0 |
| | | 5-9 | 163 | 17 | 11.1 | 2 | 1.3 | 2 | 1.3 | 1 | 0.7 | 1 | 0.7 | 1 | 0.7 | . | . | 34 | 22.2 |
| | | 10-14 | 182 | 31 | 17.6 | 6 | 3.4 | 5 | 2.8 | 4 | 2.3 | 6 | 3.4 | 4 | 2.3 | . | . | 37 | 21.0 |
| | | 15-20 | 137 | 13 | 10.1 | 4 | 3.1 | 2 | 1.6 | 2 | 1.6 | 3 | 2.3 | 2 | 1.6 | 1 | 0.8 | 28 | 21.7 |
| Males | All cases | | 427 | 61 | 15.0 | 14 | 3.4 | 13 | 3.2 | 12 | 2.9 | 15 | 3.7 | 13 | 3.2 | 2 | 0.5 | 78 | 19.1 |
| | Age at baseline | <18 | 122 | 21 | 17.4 | 3 | 2.5 | 3 | 2.5 | 3 | 2.5 | 5 | 4.1 | 4 | 3.3 | . | . | 27 | 22.3 |
| | | 18-19 | 42 | 7 | 17.1 | . | . | . | . | . | . | . | . | . | . | 1 | 2.4 | 7 | 17.1 |
| | | 20-24 | 92 | 11 | 12.8 | 4 | 4.7 | 4 | 4.7 | 4 | 4.7 | 4 | 4.7 | 4 | 4.7 | . | . | 18 | 20.9 |
| | | 25-29 | 82 | 12 | 15.4 | 3 | 3.8 | 2 | 2.6 | 2 | 2.6 | 2 | 2.6 | 2 | 2.6 | 1 | 1.3 | 12 | 15.4 |
| | | 30-34 | 56 | 7 | 13.5 | 2 | 3.8 | 3 | 5.8 | 2 | 3.8 | 2 | 3.8 | 2 | 3.8 | . | . | 8 | 15.4 |
| | | 35+ | 33 | 3 | 10.0 | 2 | 6.7 | 1 | 3.3 | 1 | 3.3 | 2 | 6.7 | 1 | 3.3 | . | . | 6 | 20.0 |
| | Years since diagnosis | 5-9 | 47 | 3 | 7.0 | . | . | . | . | . | . | . | . | . | . | . | . | 14 | 32.6 |
| | | 10-14 | 152 | 24 | 16.1 | 4 | 2.7 | 4 | 2.7 | 4 | 2.7 | 4 | 2.7 | 4 | 2.7 | 1 | 0.7 | 30 | 20.1 |
| | | 15-19 | 141 | 23 | 16.8 | 4 | 2.9 | 5 | 3.6 | 4 | 2.9 | 6 | 4.4 | 5 | 3.6 | 1 | 0.7 | 21 | 15.3 |
| | | 20+ | 87 | 11 | 13.9 | 6 | 7.6 | 4 | 5.1 | 4 | 5.1 | 5 | 6.3 | 4 | 5.1 | . | . | 13 | 16.5 |
| | Age at diagnosis | <1 | 39 | 11 | 28.2 | 2 | 5.1 | 2 | 5.1 | 2 | 5.1 | 3 | 7.7 | 3 | 7.7 | 1 | 2.6 | 7 | 17.9 |
| | | 1-4 | 165 | 23 | 14.4 | 5 | 3.1 | 5 | 3.1 | 5 | 3.1 | 6 | 3.8 | 5 | 3.1 | . | . | 26 | 16.3 |
| | | 5-9 | 75 | 9 | 12.9 | 2 | 2.9 | 1 | 1.4 | 1 | 1.4 | 1 | 1.4 | 1 | 1.4 | . | . | 15 | 21.4 |
| | | 10-14 | 74 | 11 | 15.5 | 3 | 4.2 | 4 | 5.6 | 3 | 4.2 | 3 | 4.2 | 3 | 4.2 | . | . | 15 | 21.1 |
| | | 15-20 | 74 | 7 | 10.3 | 2 | 2.9 | 1 | 1.5 | 1 | 1.5 | 2 | 2.9 | 1 | 1.5 | 1 | 1.5 | 15 | 22.1 |
| Females | All cases | | 444 | 62 | 14.4 | 9 | 2.1 | 8 | 1.9 | 6 | 1.4 | 9 | 2.1 | 7 | 1.6 | . | . | 78 | 18.1 |
| | Age at baseline | <18 | 103 | 13 | 12.9 | 1 | 1.0 | 2 | 2.0 | 1 | 1.0 | 1 | 1.0 | 1 | 1.0 | . | . | 12 | 11.9 |
| | | 18-19 | 40 | 8 | 20.5 | 1 | 2.6 | . | . | . | . | 2 | 5.1 | 1 | 2.6 | . | . | 8 | 20.5 |
| | | 20-24 | 99 | 12 | 12.8 | 2 | 2.1 | 2 | 2.1 | 2 | 2.1 | 2 | 2.1 | 2 | 2.1 | . | . | 21 | 22.3 |
| | | 25-29 | 104 | 17 | 16.7 | 1 | 1.0 | 2 | 2.0 | 1 | 1.0 | 1 | 1.0 | 1 | 1.0 | . | . | 21 | 20.6 |
| | | 30-34 | 62 | 5 | 8.3 | 1 | 1.7 | . | . | . | . | 1 | 1.7 | . | . | . | . | 11 | 18.3 |
| | | 35+ | 36 | 7 | 19.4 | 3 | 8.3 | 2 | 5.6 | 2 | 5.6 | 2 | 5.6 | 2 | 5.6 | . | . | 5 | 13.9 |
| | Years since diagnosis | 5-9 | 34 | . | . | 1 | 3.0 | . | . | . | . | 1 | 3.0 | . | . | . | . | 6 | 18.2 |
| | | 10-14 | 155 | 23 | 15.4 | 1 | 0.7 | 1 | 0.7 | . | . | 1 | 0.7 | 1 | 0.7 | . | . | 35 | 23.5 |
| | | 15-19 | 160 | 27 | 17.4 | 5 | 3.2 | 4 | 2.6 | 4 | 2.6 | 5 | 3.2 | 4 | 2.6 | . | . | 25 | 16.1 |
| | | 20+ | 95 | 12 | 12.6 | 2 | 2.1 | 3 | 3.2 | 2 | 2.1 | 2 | 2.1 | 2 | 2.1 | . | . | 12 | 12.6 |
| | Age at diagnosis | <1 | 51 | 4 | 8.0 | . | . | . | . | . | . | . | . | . | . | . | . | 3 | 6.0 |
| | | 1-4 | 134 | 24 | 18.0 | 4 | 3.0 | 5 | 3.8 | 4 | 3.0 | 5 | 3.8 | 5 | 3.8 | . | . | 21 | 15.8 |
| | | 5-9 | 88 | 8 | 9.6 | . | . | 1 | 1.2 | . | . | . | . | . | . | . | . | 19 | 22.9 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: AML

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|----|-------|---|------|---|-------|---|---------|---|--------|---|------|---|-----|----|------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 108 | 20 | 19.0 | 3 | 2.9 | 1 | 1.0 | 1 | 1.0 | 3 | 2.9 | 1 | 1.0 | . | . | 22 | 21.0 |
| | | 15-20 | 63 | 6 | 9.8 | 2 | 3.3 | 1 | 1.6 | 1 | 1.6 | 1 | 1.6 | 1 | 1.6 | . | . | 13 | 21.3 |

Radiotherapy by body region: All CNS

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|----------|------------|----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 4184 | 2207 | 55.3 | 1035 | 25.9 | 1040 | 26.1 | 998 | 25.0 | 1042 | 26.1 | 1018 | 25.5 | 3 | 0.1 | 2 | 0.1 |
| | Age at baseline | <18 | 891 | 501 | 58.8 | 238 | 28.0 | 242 | 28.4 | 231 | 27.1 | 236 | 27.7 | 233 | 27.4 | 1 | 0.1 | . | . |
| | | 18-19 | 349 | 182 | 54.0 | 78 | 23.1 | 79 | 23.4 | 78 | 23.1 | 79 | 23.4 | 77 | 22.8 | . | . | . | . |
| | | 20-24 | 1093 | 559 | 53.2 | 282 | 26.8 | 286 | 27.2 | 273 | 26.0 | 285 | 27.1 | 279 | 26.5 | 1 | 0.1 | . | . |
| | | 25-29 | 1021 | 568 | 58.2 | 266 | 27.3 | 262 | 26.9 | 253 | 25.9 | 266 | 27.3 | 260 | 26.7 | . | . | 2 | 0.2 |
| | | 30-34 | 581 | 288 | 52.3 | 139 | 25.3 | 136 | 24.7 | 132 | 24.0 | 140 | 25.5 | 134 | 24.4 | . | . | . | . |
| | | 35+ | 249 | 109 | 48.4 | 32 | 14.2 | 35 | 15.6 | 31 | 13.8 | 36 | 16.0 | 35 | 15.6 | 1 | 0.4 | . | . |
| | Years since diagnosis | 5-9 | 428 | 308 | 75.9 | 146 | 36.0 | 147 | 36.2 | 141 | 34.7 | 144 | 35.5 | 141 | 34.7 | 1 | 0.2 | . | . |
| | | 10-14 | 1424 | 740 | 54.1 | 361 | 26.4 | 362 | 26.5 | 354 | 25.9 | 366 | 26.8 | 362 | 26.5 | . | . | 2 | 0.1 |
| | | 15-19 | 1325 | 664 | 52.2 | 317 | 24.9 | 320 | 25.2 | 304 | 23.9 | 320 | 25.2 | 313 | 24.6 | 2 | 0.2 | . | . |
| | | 20+ | 1007 | 495 | 52.3 | 211 | 22.3 | 211 | 22.3 | 199 | 21.0 | 212 | 22.4 | 202 | 21.4 | . | . | . | . |
| | Age at diagnosis | <1 | 205 | 67 | 33.8 | 15 | 7.6 | 14 | 7.1 | 13 | 6.6 | 13 | 6.6 | 13 | 6.6 | . | . | . | . |
| | | 1-4 | 1223 | 633 | 54.2 | 262 | 22.5 | 274 | 23.5 | 254 | 21.8 | 263 | 22.5 | 253 | 21.7 | . | . | . | . |
| | | 5-9 | 1326 | 768 | 60.5 | 428 | 33.7 | 424 | 33.4 | 415 | 32.7 | 430 | 33.9 | 424 | 33.4 | 2 | 0.2 | . | . |
| | | 10-14 | 996 | 524 | 54.8 | 258 | 27.0 | 256 | 26.8 | 247 | 25.8 | 263 | 27.5 | 256 | 26.8 | . | . | 2 | 0.2 |
| | | 15-20 | 434 | 215 | 53.8 | 72 | 18.0 | 72 | 18.0 | 69 | 17.3 | 73 | 18.3 | 72 | 18.0 | 1 | 0.3 | . | . |
| Males | All cases | | 2276 | 1248 | 57.5 | 631 | 29.1 | 629 | 29.0 | 612 | 28.2 | 634 | 29.2 | 623 | 28.7 | 2 | 0.1 | . | . |
| | Age at baseline | <18 | 494 | 293 | 62.2 | 142 | 30.1 | 141 | 29.9 | 140 | 29.7 | 141 | 29.9 | 140 | 29.7 | 1 | 0.2 | . | . |
| | | 18-19 | 176 | 96 | 55.8 | 45 | 26.2 | 45 | 26.2 | 45 | 26.2 | 46 | 26.7 | 44 | 25.6 | . | . | . | . |
| | | 20-24 | 584 | 309 | 55.1 | 178 | 31.7 | 180 | 32.1 | 173 | 30.8 | 182 | 32.4 | 180 | 32.1 | 1 | 0.2 | . | . |
| | | 25-29 | 579 | 335 | 60.6 | 162 | 29.3 | 159 | 28.8 | 154 | 27.8 | 159 | 28.8 | 156 | 28.2 | . | . | . | . |
| | | 30-34 | 309 | 153 | 52.2 | 82 | 28.0 | 80 | 27.3 | 79 | 27.0 | 83 | 28.3 | 80 | 27.3 | . | . | . | . |
| | | 35+ | 134 | 62 | 52.1 | 22 | 18.5 | 24 | 20.2 | 21 | 17.6 | 23 | 19.3 | 23 | 19.3 | . | . | . | . |
| | Years since diagnosis | 5-9 | 242 | 176 | 76.2 | 89 | 38.5 | 88 | 38.1 | 88 | 38.1 | 89 | 38.5 | 88 | 38.1 | 1 | 0.4 | . | . |
| | | 10-14 | 766 | 422 | 57.3 | 216 | 29.3 | 215 | 29.2 | 210 | 28.5 | 218 | 29.6 | 215 | 29.2 | . | . | . | . |
| | | 15-19 | 720 | 379 | 55.3 | 200 | 29.2 | 201 | 29.3 | 195 | 28.5 | 201 | 29.3 | 200 | 29.2 | 1 | 0.1 | . | . |
| | | 20+ | 548 | 271 | 52.4 | 126 | 24.4 | 125 | 24.2 | 119 | 23.0 | 126 | 24.4 | 120 | 23.2 | . | . | . | . |
| | Age at diagnosis | <1 | 121 | 46 | 38.7 | 11 | 9.2 | 10 | 8.4 | 11 | 9.2 | 11 | 9.2 | 11 | 9.2 | . | . | . | . |
| | | 1-4 | 647 | 346 | 56.3 | 157 | 25.5 | 160 | 26.0 | 152 | 24.7 | 157 | 25.5 | 150 | 24.4 | . | . | . | . |
| | | 5-9 | 738 | 444 | 62.5 | 267 | 37.6 | 263 | 37.0 | 260 | 36.6 | 270 | 38.0 | 267 | 37.6 | 2 | 0.3 | . | . |
| | | 10-14 | 526 | 289 | 57.7 | 151 | 30.1 | 149 | 29.7 | 145 | 28.9 | 150 | 29.9 | 149 | 29.7 | . | . | . | . |
| | | 15-20 | 244 | 123 | 54.9 | 45 | 20.1 | 47 | 21.0 | 44 | 19.6 | 46 | 20.5 | 46 | 20.5 | . | . | . | . |
| Females | All cases | | 1908 | 959 | 52.6 | 404 | 22.2 | 411 | 22.6 | 386 | 21.2 | 408 | 22.4 | 395 | 21.7 | 1 | 0.1 | 2 | 0.1 |
| | Age at baseline | <18 | 397 | 208 | 54.6 | 96 | 25.3 | 101 | 26.6 | 91 | 23.9 | 95 | 25.0 | 93 | 24.5 | . | . | . | . |
| | | 18-19 | 173 | 86 | 52.1 | 33 | 20.0 | 34 | 20.6 | 33 | 20.0 | 33 | 20.0 | 33 | 20.0 | . | . | . | . |
| | | 20-24 | 509 | 250 | 51.0 | 104 | 21.2 | 106 | 21.6 | 100 | 20.4 | 103 | 21.0 | 99 | 20.2 | . | . | . | . |
| | | 25-29 | 442 | 233 | 55.1 | 104 | 24.6 | 103 | 24.4 | 99 | 23.5 | 107 | 25.4 | 104 | 24.6 | . | . | 2 | 0.5 |
| | | 30-34 | 272 | 135 | 52.3 | 57 | 22.2 | 56 | 21.8 | 53 | 20.6 | 57 | 22.2 | 54 | 21.0 | . | . | . | . |
| | | 35+ | 115 | 47 | 44.3 | 10 | 9.4 | 11 | 10.4 | 10 | 9.4 | 13 | 12.3 | 12 | 11.3 | 1 | 0.9 | . | . |
| | Years since diagnosis | 5-9 | 186 | 132 | 75.4 | 57 | 32.6 | 59 | 33.7 | 53 | 30.3 | 55 | 31.4 | 53 | 30.3 | . | . | . | . |
| | | 10-14 | 658 | 318 | 50.3 | 145 | 23.0 | 147 | 23.3 | 144 | 22.9 | 148 | 23.5 | 147 | 23.3 | . | . | 2 | 0.3 |
| | | 15-19 | 605 | 285 | 48.6 | 117 | 20.0 | 119 | 20.3 | 109 | 18.6 | 119 | 20.3 | 113 | 19.3 | 1 | 0.2 | . | . |
| | | 20+ | 459 | 224 | 52.2 | 85 | 19.8 | 86 | 20.0 | 80 | 18.6 | 86 | 20.0 | 82 | 19.1 | . | . | . | . |
| | Age at diagnosis | <1 | 84 | 21 | 26.6 | 4 | 5.1 | 4 | 5.1 | 2 | 2.5 | 2 | 2.5 | 2 | 2.5 | . | . | . | . |
| | | 1-4 | 576 | 287 | 51.9 | 105 | 19.0 | 114 | 20.7 | 102 | 18.5 | 106 | 19.2 | 103 | 18.7 | . | . | . | . |
| | | 5-9 | 588 | 324 | 58.0 | 161 | 28.8 | 161 | 28.8 | 155 | 27.7 | 160 | 28.6 | 157 | 28.1 | . | . | . | . |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: All CNS

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|-----|-------|-----|------|-----|-------|-----|---------|-----|--------|-----|------|---|-----|---|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 470 | 235 | 51.5 | 107 | 23.5 | 107 | 23.5 | 102 | 22.4 | 113 | 24.8 | 107 | 23.5 | . | . | 2 | 0.4 |
| | | 15-20 | 190 | 92 | 52.3 | 27 | 15.4 | 25 | 14.3 | 25 | 14.3 | 27 | 15.4 | 26 | 14.9 | 1 | 0.6 | . | . |

Radiotherapy by body region: Astrocytomas

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|------------|-------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|---|-----|---|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 2509 | 985 | 41.1 | 66 | 2.8 | 74 | 3.1 | 44 | 1.8 | 59 | 2.5 | 43 | 1.8 | . | . | . | . |
| | Age at baseline | <18 | 493 | 207 | 43.8 | 17 | 3.6 | 19 | 4.0 | 12 | 2.5 | 15 | 3.2 | 13 | 2.7 | . | . | . | . |
| | | 18-19 | 202 | 73 | 37.4 | 2 | 1.0 | 2 | 1.0 | 2 | 1.0 | 3 | 1.5 | 1 | 0.5 | . | . | . | . |
| | | 20-24 | 662 | 241 | 37.8 | 21 | 3.3 | 25 | 3.9 | 16 | 2.5 | 19 | 3.0 | 15 | 2.4 | . | . | . | . |
| | | 25-29 | 629 | 262 | 43.9 | 17 | 2.8 | 17 | 2.8 | 9 | 1.5 | 13 | 2.2 | 9 | 1.5 | . | . | . | . |
| | | 30-34 | 357 | 134 | 39.5 | 8 | 2.4 | 7 | 2.1 | 5 | 1.5 | 9 | 2.7 | 5 | 1.5 | . | . | . | . |
| | | 35+ | 166 | 68 | 44.4 | 1 | 0.7 | 4 | 2.6 | . | . | . | . | . | . | . | . | . | . |
| | Years since diagnosis | 5-9 | 219 | 128 | 62.7 | 6 | 2.9 | 8 | 3.9 | 4 | 2.0 | 5 | 2.5 | 3 | 1.5 | . | . | . | . |
| | | 10-14 | 838 | 307 | 38.0 | 22 | 2.7 | 23 | 2.9 | 20 | 2.5 | 23 | 2.9 | 22 | 2.7 | . | . | . | . |
| | | 15-19 | 778 | 288 | 38.6 | 19 | 2.5 | 21 | 2.8 | 9 | 1.2 | 14 | 1.9 | 9 | 1.2 | . | . | . | . |
| | | 20+ | 674 | 262 | 41.1 | 19 | 3.0 | 22 | 3.5 | 11 | 1.7 | 17 | 2.7 | 9 | 1.4 | . | . | . | . |
| | Age at diagnosis | <1 | 144 | 45 | 32.6 | 5 | 3.6 | 4 | 2.9 | 3 | 2.2 | 3 | 2.2 | 3 | 2.2 | . | . | . | . |
| | | 1-4 | 741 | 294 | 41.1 | 23 | 3.2 | 30 | 4.2 | 15 | 2.1 | 23 | 3.2 | 14 | 2.0 | . | . | . | . |
| | | 5-9 | 750 | 297 | 41.6 | 20 | 2.8 | 20 | 2.8 | 15 | 2.1 | 18 | 2.5 | 15 | 2.1 | . | . | . | . |
| | | 10-14 | 599 | 231 | 40.1 | 13 | 2.3 | 15 | 2.6 | 8 | 1.4 | 11 | 1.9 | 8 | 1.4 | . | . | . | . |
| | | 15-20 | 275 | 118 | 47.0 | 5 | 2.0 | 5 | 2.0 | 3 | 1.2 | 4 | 1.6 | 3 | 1.2 | . | . | . | . |
| Males | All cases | | 1302 | 522 | 41.9 | 40 | 3.2 | 39 | 3.1 | 28 | 2.2 | 35 | 2.8 | 27 | 2.2 | . | . | . | . |
| | Age at baseline | <18 | 258 | 116 | 47.0 | 8 | 3.2 | 6 | 2.4 | 6 | 2.4 | 7 | 2.8 | 6 | 2.4 | . | . | . | . |
| | | 18-19 | 102 | 38 | 38.0 | 1 | 1.0 | . | . | 1 | 1.0 | 2 | 2.0 | . | . | . | . | . | . |
| | | 20-24 | 325 | 121 | 38.4 | 14 | 4.4 | 18 | 5.7 | 13 | 4.1 | 13 | 4.1 | 13 | 4.1 | . | . | . | . |
| | | 25-29 | 351 | 148 | 44.3 | 10 | 3.0 | 8 | 2.4 | 4 | 1.2 | 7 | 2.1 | 4 | 1.2 | . | . | . | . |
| | | 30-34 | 178 | 63 | 37.5 | 6 | 3.6 | 4 | 2.4 | 4 | 2.4 | 6 | 3.6 | 4 | 2.4 | . | . | . | . |
| | | 35+ | 88 | 36 | 44.4 | 1 | 1.2 | 3 | 3.7 | . | . | . | . | . | . | . | . | . | . |
| | Years since diagnosis | 5-9 | 117 | 68 | 61.3 | 4 | 3.6 | 4 | 3.6 | 4 | 3.6 | 4 | 3.6 | 3 | 2.7 | . | . | . | . |
| | | 10-14 | 437 | 172 | 40.9 | 14 | 3.3 | 12 | 2.9 | 12 | 2.9 | 13 | 3.1 | 13 | 3.1 | . | . | . | . |
| | | 15-19 | 391 | 149 | 40.2 | 11 | 3.0 | 12 | 3.2 | 7 | 1.9 | 8 | 2.2 | 7 | 1.9 | . | . | . | . |
| | | 20+ | 357 | 133 | 38.9 | 11 | 3.2 | 11 | 3.2 | 5 | 1.5 | 10 | 2.9 | 4 | 1.2 | . | . | . | . |
| | Age at diagnosis | <1 | 81 | 30 | 38.0 | 3 | 3.8 | 2 | 2.5 | 3 | 3.8 | 3 | 3.8 | 3 | 3.8 | . | . | . | . |
| | | 1-4 | 373 | 151 | 41.8 | 13 | 3.6 | 14 | 3.9 | 8 | 2.2 | 13 | 3.6 | 7 | 1.9 | . | . | . | . |
| | | 5-9 | 394 | 156 | 41.2 | 12 | 3.2 | 9 | 2.4 | 8 | 2.1 | 10 | 2.6 | 8 | 2.1 | . | . | . | . |
| | | 10-14 | 302 | 123 | 42.6 | 9 | 3.1 | 10 | 3.5 | 6 | 2.1 | 6 | 2.1 | 6 | 2.1 | . | . | . | . |
| | | 15-20 | 152 | 62 | 45.3 | 3 | 2.2 | 4 | 2.9 | 3 | 2.2 | 3 | 2.2 | 3 | 2.2 | . | . | . | . |
| Females | All cases | | 1207 | 463 | 40.3 | 26 | 2.3 | 35 | 3.0 | 16 | 1.4 | 24 | 2.1 | 16 | 1.4 | . | . | . | . |
| | Age at baseline | <18 | 235 | 91 | 40.3 | 9 | 4.0 | 13 | 5.8 | 6 | 2.7 | 8 | 3.5 | 7 | 3.1 | . | . | . | . |
| | | 18-19 | 100 | 35 | 36.8 | 1 | 1.1 | 2 | 2.1 | 1 | 1.1 | 1 | 1.1 | 1 | 1.1 | . | . | . | . |
| | | 20-24 | 337 | 120 | 37.2 | 7 | 2.2 | 7 | 2.2 | 3 | 0.9 | 6 | 1.9 | 2 | 0.6 | . | . | . | . |
| | | 25-29 | 278 | 114 | 43.3 | 7 | 2.7 | 9 | 3.4 | 5 | 1.9 | 6 | 2.3 | 5 | 1.9 | . | . | . | . |
| | | 30-34 | 179 | 71 | 41.5 | 2 | 1.2 | 3 | 1.8 | 1 | 0.6 | 3 | 1.8 | 1 | 0.6 | . | . | . | . |
| | | 35+ | 78 | 32 | 44.4 | . | . | 1 | 1.4 | . | . | . | . | . | . | . | . | . | . |
| | Years since diagnosis | 5-9 | 102 | 60 | 64.5 | 2 | 2.2 | 4 | 4.3 | . | . | 1 | 1.1 | . | . | . | . | . | . |
| | | 10-14 | 401 | 135 | 34.9 | 8 | 2.1 | 11 | 2.8 | 8 | 2.1 | 10 | 2.6 | 9 | 2.3 | . | . | . | . |
| | | 15-19 | 387 | 139 | 37.1 | 8 | 2.1 | 9 | 2.4 | 2 | 0.5 | 6 | 1.6 | 2 | 0.5 | . | . | . | . |
| | | 20+ | 317 | 129 | 43.7 | 8 | 2.7 | 11 | 3.7 | 6 | 2.0 | 7 | 2.4 | 5 | 1.7 | . | . | . | . |
| | Age at diagnosis | <1 | 63 | 15 | 25.4 | 2 | 3.4 | 2 | 3.4 | . | . | . | . | . | . | . | . | . | . |
| | | 1-4 | 368 | 143 | 40.3 | 10 | 2.8 | 16 | 4.5 | 7 | 2.0 | 10 | 2.8 | 7 | 2.0 | . | . | . | . |
| | | 5-9 | 356 | 141 | 42.1 | 8 | 2.4 | 11 | 3.3 | 7 | 2.1 | 8 | 2.4 | 7 | 2.1 | . | . | . | . |

Radiotherapy by body region: Astrocytomas

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|-----|-------|---|------|---|-------|---|---------|---|--------|---|------|---|-----|---|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 297 | 108 | 37.6 | 4 | 1.4 | 5 | 1.7 | 2 | 0.7 | 5 | 1.7 | 2 | 0.7 | . | . | . | . |
| | | 15-20 | 123 | 56 | 49.1 | 2 | 1.8 | 1 | 0.9 | . | . | 1 | 0.9 | . | . | . | . | . | . |

Radiotherapy by body region: Medulloblastoma/PNET

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|----------|------------|----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 979 | 847 | 91.2 | 835 | 90.0 | 829 | 89.3 | 823 | 88.7 | 830 | 89.4 | 827 | 89.1 | 3 | 0.3 | 2 | 0.2 |
| | Age at baseline | <18 | 233 | 197 | 90.8 | 189 | 87.1 | 188 | 86.6 | 188 | 86.6 | 190 | 87.6 | 189 | 87.1 | 1 | 0.5 | . | . |
| | | 18-19 | 77 | 66 | 89.2 | 65 | 87.8 | 65 | 87.8 | 65 | 87.8 | 65 | 87.8 | 65 | 87.8 | . | . | . | . |
| | | 20-24 | 273 | 234 | 89.7 | 230 | 88.1 | 229 | 87.7 | 226 | 86.6 | 230 | 88.1 | 228 | 87.4 | 1 | 0.4 | . | . |
| | | 25-29 | 236 | 213 | 93.4 | 213 | 93.8 | 211 | 93.0 | 209 | 92.1 | 210 | 92.5 | 210 | 92.5 | . | . | 2 | 0.9 |
| | | 30-34 | 126 | 112 | 93.3 | 113 | 94.2 | 111 | 92.5 | 110 | 91.7 | 110 | 91.7 | 110 | 91.7 | . | . | . | . |
| | | 35+ | 34 | 25 | 86.2 | 25 | 86.2 | 25 | 86.2 | 25 | 86.2 | 25 | 86.2 | 25 | 86.2 | 1 | 3.4 | . | . |
| | Years since diagnosis | 5-9 | 119 | 109 | 97.3 | 107 | 95.5 | 105 | 93.8 | 105 | 93.8 | 106 | 94.6 | 105 | 93.8 | 1 | 0.9 | . | . |
| | | 10-14 | 333 | 295 | 93.4 | 289 | 91.5 | 287 | 90.8 | 285 | 90.2 | 288 | 91.1 | 286 | 90.5 | . | . | 2 | 0.6 |
| | | 15-19 | 323 | 273 | 88.3 | 270 | 87.7 | 270 | 87.7 | 267 | 86.7 | 270 | 87.7 | 269 | 87.3 | 2 | 0.6 | . | . |
| | | 20+ | 204 | 170 | 88.5 | 169 | 88.0 | 167 | 87.0 | 166 | 86.5 | 166 | 86.5 | 167 | 87.0 | . | . | . | . |
| | Age at diagnosis | <1 | 23 | 10 | 45.5 | 7 | 31.8 | 7 | 31.8 | 7 | 31.8 | 7 | 31.8 | 7 | 31.8 | . | . | . | . |
| | | 1-4 | 279 | 216 | 85.0 | 205 | 80.7 | 206 | 81.1 | 205 | 80.7 | 206 | 81.1 | 205 | 80.7 | . | . | . | . |
| | | 5-9 | 402 | 376 | 95.9 | 374 | 95.4 | 371 | 94.6 | 368 | 93.9 | 373 | 95.2 | 372 | 94.9 | 2 | 0.5 | . | . |
| | | 10-14 | 217 | 198 | 95.2 | 202 | 97.6 | 198 | 95.7 | 196 | 94.7 | 197 | 95.2 | 196 | 94.7 | . | . | 2 | 1.0 |
| | | 15-20 | 58 | 47 | 88.7 | 47 | 88.7 | 47 | 88.7 | 47 | 88.7 | 47 | 88.7 | 47 | 88.7 | 1 | 1.9 | . | . |
| Males | All cases | | 599 | 522 | 92.4 | 515 | 91.2 | 511 | 90.4 | 509 | 90.1 | 513 | 90.8 | 512 | 90.6 | 2 | 0.4 | . | . |
| | Age at baseline | <18 | 141 | 123 | 94.6 | 117 | 90.0 | 117 | 90.0 | 117 | 90.0 | 117 | 90.0 | 117 | 90.0 | 1 | 0.8 | . | . |
| | | 18-19 | 43 | 39 | 92.9 | 39 | 92.9 | 39 | 92.9 | 39 | 92.9 | 39 | 92.9 | 39 | 92.9 | . | . | . | . |
| | | 20-24 | 177 | 149 | 88.7 | 147 | 87.5 | 145 | 86.3 | 143 | 85.1 | 147 | 87.5 | 145 | 86.3 | 1 | 0.6 | . | . |
| | | 25-29 | 145 | 132 | 95.0 | 132 | 95.0 | 131 | 94.2 | 131 | 94.2 | 131 | 94.2 | 132 | 95.0 | . | . | . | . |
| | | 30-34 | 71 | 63 | 92.6 | 64 | 94.1 | 63 | 92.6 | 63 | 92.6 | 63 | 92.6 | 63 | 92.6 | . | . | . | . |
| | | 35+ | 22 | 16 | 88.9 | 16 | 88.9 | 16 | 88.9 | 16 | 88.9 | 16 | 88.9 | 16 | 88.9 | . | . | . | . |
| | Years since diagnosis | 5-9 | 72 | 66 | 98.5 | 65 | 97.0 | 64 | 95.5 | 64 | 95.5 | 64 | 95.5 | 64 | 95.5 | 1 | 1.5 | . | . |
| | | 10-14 | 196 | 175 | 94.6 | 172 | 93.0 | 171 | 92.4 | 169 | 91.4 | 172 | 93.0 | 170 | 91.9 | . | . | . | . |
| | | 15-19 | 207 | 176 | 88.9 | 174 | 87.9 | 173 | 87.4 | 173 | 87.4 | 174 | 87.9 | 174 | 87.9 | 1 | 0.5 | . | . |
| | | 20+ | 124 | 105 | 91.3 | 104 | 90.4 | 103 | 89.6 | 103 | 89.6 | 103 | 89.6 | 104 | 90.4 | . | . | . | . |
| | Age at diagnosis | <1 | 16 | 10 | 62.5 | 7 | 43.8 | 7 | 43.8 | 7 | 43.8 | 7 | 43.8 | 7 | 43.8 | . | . | . | . |
| | | 1-4 | 168 | 136 | 89.5 | 129 | 84.9 | 129 | 84.9 | 129 | 84.9 | 129 | 84.9 | 128 | 84.2 | . | . | . | . |
| | | 5-9 | 257 | 238 | 95.6 | 238 | 95.6 | 237 | 95.2 | 235 | 94.4 | 239 | 96.0 | 239 | 96.0 | 2 | 0.8 | . | . |
| | | 10-14 | 123 | 109 | 94.8 | 112 | 97.4 | 109 | 94.8 | 109 | 94.8 | 109 | 94.8 | 109 | 94.8 | . | . | . | . |
| | | 15-20 | 35 | 29 | 87.9 | 29 | 87.9 | 29 | 87.9 | 29 | 87.9 | 29 | 87.9 | 29 | 87.9 | . | . | . | . |
| Females | All cases | | 380 | 325 | 89.3 | 320 | 88.2 | 318 | 87.6 | 314 | 86.5 | 317 | 87.3 | 315 | 86.8 | 1 | 0.3 | 2 | 0.6 |
| | Age at baseline | <18 | 92 | 74 | 85.1 | 72 | 82.8 | 71 | 81.6 | 71 | 81.6 | 73 | 83.9 | 72 | 82.8 | . | . | . | . |
| | | 18-19 | 34 | 27 | 84.4 | 26 | 81.3 | 26 | 81.3 | 26 | 81.3 | 26 | 81.3 | 26 | 81.3 | . | . | . | . |
| | | 20-24 | 96 | 85 | 91.4 | 83 | 89.2 | 84 | 90.3 | 83 | 89.2 | 83 | 89.2 | 83 | 89.2 | . | . | . | . |
| | | 25-29 | 91 | 81 | 91.0 | 81 | 92.0 | 80 | 90.9 | 78 | 88.6 | 79 | 89.8 | 78 | 88.6 | . | . | 2 | 2.3 |
| | | 30-34 | 55 | 49 | 94.2 | 49 | 94.2 | 48 | 92.3 | 47 | 90.4 | 47 | 90.4 | 47 | 90.4 | . | . | . | . |
| | | 35+ | 12 | 9 | 81.8 | 9 | 81.8 | 9 | 81.8 | 9 | 81.8 | 9 | 81.8 | 9 | 81.8 | 1 | 9.1 | . | . |
| | Years since diagnosis | 5-9 | 47 | 43 | 95.6 | 42 | 93.3 | 41 | 91.1 | 41 | 91.1 | 42 | 93.3 | 41 | 91.1 | . | . | . | . |
| | | 10-14 | 137 | 120 | 91.6 | 117 | 89.3 | 116 | 88.5 | 116 | 88.5 | 116 | 88.5 | 116 | 88.5 | . | . | 2 | 1.5 |
| | | 15-19 | 116 | 97 | 87.4 | 96 | 87.3 | 97 | 88.2 | 94 | 85.5 | 96 | 87.3 | 95 | 86.4 | 1 | 0.9 | . | . |
| | | 20+ | 80 | 65 | 84.4 | 65 | 84.4 | 64 | 83.1 | 63 | 81.8 | 63 | 81.8 | 63 | 81.8 | . | . | . | . |
| | Age at diagnosis | <1 | 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 1-4 | 111 | 80 | 78.4 | 76 | 74.5 | 77 | 75.5 | 76 | 74.5 | 77 | 75.5 | 77 | 75.5 | . | . | . | . |
| | | 5-9 | 145 | 138 | 96.5 | 136 | 95.1 | 134 | 93.7 | 133 | 93.0 | 134 | 93.7 | 133 | 93.0 | . | . | . | . |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: Medulloblastoma/PNET

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|----|-------|----|------|----|-------|----|---------|----|--------|----|------|---|-----|---|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 94 | 89 | 95.7 | 90 | 97.8 | 89 | 96.7 | 87 | 94.6 | 88 | 95.7 | 87 | 94.6 | . | . | 2 | 2.2 |
| | | 15-20 | 23 | 18 | 90.0 | 18 | 90.0 | 18 | 90.0 | 18 | 90.0 | 18 | 90.0 | 18 | 90.0 | 1 | 5.0 | . | . |

Radiotherapy by body region: Hodgkin

| | | All cases | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | |
|-------------------|------------------------------|-------------|-----------|------------|-------------|-------------|-------------|-------------|----------|------------|-------------|-------------|------------|-------------|-----------|------------|----------|------------|-----|
| | | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | 2827 | 32 | 1.2 | 2132 | 78.4 | 2210 | 81.3 | 1 | 0.0 | 1306 | 48.1 | 829 | 30.5 | 74 | 2.7 | 7 | 0.3 | |
| | Age at baseline | <18 | 55 | 3 | 5.7 | 31 | 58.5 | 42 | 79.2 | . | . | 17 | 32.1 | 7 | 13.2 | . | . | . | . |
| | | 18-19 | 55 | . | . | 25 | 45.5 | 32 | 58.2 | . | . | 17 | 30.9 | 12 | 21.8 | . | . | . | . |
| | | 20-24 | 328 | 5 | 1.6 | 214 | 67.7 | 243 | 76.9 | . | . | 138 | 43.7 | 82 | 25.9 | 9 | 2.9 | 2 | 0.6 |
| | | 25-29 | 733 | 11 | 1.6 | 533 | 75.9 | 555 | 79.1 | 1 | 0.1 | 298 | 42.5 | 179 | 25.5 | 20 | 2.9 | . | . |
| | | 30-34 | 862 | 8 | 1.0 | 684 | 82.5 | 687 | 82.9 | . | . | 400 | 48.3 | 267 | 32.2 | 25 | 3.0 | 5 | 0.6 |
| | | 35+ | 794 | 5 | 0.7 | 645 | 84.5 | 651 | 85.3 | . | . | 436 | 57.1 | 282 | 37.0 | 20 | 2.6 | . | . |
| | Years since diagnosis | 5-9 | 221 | 6 | 2.8 | 183 | 85.9 | 186 | 87.3 | . | . | 120 | 56.3 | 67 | 31.5 | 8 | 3.8 | 2 | 0.9 |
| | | 10-14 | 867 | 7 | 0.8 | 638 | 76.1 | 656 | 78.3 | 1 | 0.1 | 357 | 42.7 | 222 | 26.5 | 17 | 2.0 | 3 | 0.4 |
| | | 15-19 | 930 | 12 | 1.3 | 704 | 79.0 | 742 | 83.3 | . | . | 425 | 47.7 | 276 | 31.0 | 26 | 2.9 | 1 | 0.1 |
| | | 20+ | 809 | 7 | 0.9 | 607 | 78.2 | 626 | 80.7 | . | . | 404 | 52.1 | 264 | 34.0 | 23 | 3.0 | 1 | 0.1 |
| | Age at diagnosis | 1-4 | 71 | 1 | 1.4 | 24 | 34.8 | 44 | 63.8 | . | . | 15 | 21.7 | 13 | 18.8 | . | . | . | . |
| | | 5-9 | 353 | 7 | 2.1 | 196 | 58.2 | 235 | 69.7 | . | . | 132 | 39.2 | 90 | 26.7 | 8 | 2.4 | 1 | 0.3 |
| | | 10-14 | 1026 | 11 | 1.1 | 765 | 77.6 | 800 | 81.1 | . | . | 421 | 42.7 | 256 | 26.0 | 26 | 2.6 | 1 | 0.1 |
| | | 15-20 | 1377 | 13 | 1.0 | 1147 | 86.5 | 1131 | 85.3 | 1 | 0.1 | 738 | 55.7 | 470 | 35.5 | 40 | 3.0 | 5 | 0.4 |
| Males | All cases | 1458 | 25 | 1.8 | 1050 | 74.5 | 1135 | 80.6 | 1 | 0.1 | 688 | 48.9 | 446 | 31.7 | 44 | 3.1 | 4 | 0.3 | |
| | Age at baseline | <18 | 42 | 3 | 7.5 | 22 | 55.0 | 33 | 82.5 | . | . | 13 | 32.5 | 5 | 12.5 | . | . | . | . |
| | | 18-19 | 44 | . | . | 19 | 43.2 | 27 | 61.4 | . | . | 14 | 31.8 | 9 | 20.5 | . | . | . | . |
| | | 20-24 | 207 | 4 | 2.0 | 132 | 66.0 | 154 | 77.0 | . | . | 83 | 41.5 | 47 | 23.5 | 6 | 3.0 | 1 | 0.5 |
| | | 25-29 | 401 | 9 | 2.4 | 283 | 74.1 | 309 | 80.9 | 1 | 0.3 | 173 | 45.4 | 111 | 29.1 | 14 | 3.7 | . | . |
| | | 30-34 | 429 | 6 | 1.4 | 323 | 77.6 | 336 | 80.8 | . | . | 197 | 47.4 | 126 | 30.3 | 13 | 3.1 | 3 | 0.7 |
| | | 35+ | 335 | 3 | 0.9 | 271 | 82.9 | 276 | 84.4 | . | . | 208 | 63.6 | 148 | 45.3 | 11 | 3.4 | . | . |
| | Years since diagnosis | 5-9 | 126 | 5 | 4.1 | 102 | 82.9 | 109 | 88.6 | . | . | 65 | 52.8 | 38 | 30.9 | 5 | 4.1 | 1 | 0.8 |
| | | 10-14 | 441 | 4 | 0.9 | 320 | 74.9 | 341 | 79.9 | 1 | 0.2 | 197 | 46.2 | 120 | 28.2 | 12 | 2.8 | 1 | 0.2 |
| | | 15-19 | 492 | 11 | 2.3 | 346 | 73.2 | 384 | 81.2 | . | . | 224 | 47.4 | 144 | 30.4 | 16 | 3.4 | 1 | 0.2 |
| | | 20+ | 399 | 5 | 1.3 | 282 | 73.1 | 301 | 78.0 | . | . | 202 | 52.3 | 144 | 37.3 | 11 | 2.8 | 1 | 0.3 |
| | Age at diagnosis | 1-4 | 52 | 1 | 2.0 | 16 | 32.0 | 33 | 66.0 | . | . | 9 | 18.0 | 7 | 14.0 | . | . | . | . |
| | | 5-9 | 259 | 7 | 2.8 | 137 | 55.5 | 174 | 70.4 | . | . | 96 | 38.9 | 66 | 26.7 | 6 | 2.4 | 1 | 0.4 |
| | | 10-14 | 522 | 8 | 1.6 | 372 | 73.7 | 403 | 79.8 | . | . | 205 | 40.6 | 122 | 24.2 | 15 | 3.0 | 1 | 0.2 |
| | | 15-20 | 625 | 9 | 1.5 | 525 | 86.5 | 525 | 86.5 | 1 | 0.2 | 378 | 62.4 | 251 | 41.4 | 23 | 3.8 | 2 | 0.3 |
| Females | All cases | 1369 | 7 | 0.5 | 1082 | 82.7 | 1075 | 82.1 | . | . | 618 | 47.2 | 383 | 29.3 | 30 | 2.3 | 3 | 0.2 | |
| | Age at baseline | <18 | 13 | . | . | 9 | 69.2 | 9 | 69.2 | . | . | 4 | 30.8 | 2 | 15.4 | . | . | . | . |
| | | 18-19 | 11 | . | . | 6 | 54.5 | 5 | 45.5 | . | . | 3 | 27.3 | 3 | 27.3 | . | . | . | . |
| | | 20-24 | 121 | 1 | 0.9 | 82 | 70.7 | 89 | 76.7 | . | . | 55 | 47.4 | 35 | 30.2 | 3 | 2.6 | 1 | 0.9 |
| | | 25-29 | 332 | 2 | 0.6 | 250 | 78.1 | 246 | 76.9 | . | . | 125 | 39.1 | 68 | 21.3 | 6 | 1.9 | . | . |
| | | 30-34 | 433 | 2 | 0.5 | 361 | 87.4 | 351 | 85.0 | . | . | 203 | 49.2 | 141 | 34.1 | 12 | 2.9 | 2 | 0.5 |
| | | 35+ | 459 | 2 | 0.5 | 374 | 85.8 | 375 | 86.0 | . | . | 228 | 52.3 | 134 | 30.7 | 9 | 2.1 | . | . |
| | Years since diagnosis | 5-9 | 95 | 1 | 1.1 | 81 | 90.0 | 77 | 85.6 | . | . | 55 | 61.1 | 29 | 32.2 | 3 | 3.4 | 1 | 1.1 |
| | | 10-14 | 426 | 3 | 0.7 | 318 | 77.4 | 315 | 76.6 | . | . | 160 | 38.9 | 102 | 24.8 | 5 | 1.2 | 2 | 0.5 |
| | | 15-19 | 438 | 1 | 0.2 | 358 | 85.6 | 358 | 85.6 | . | . | 201 | 48.1 | 132 | 31.6 | 10 | 2.4 | . | . |
| | | 20+ | 410 | 2 | 0.5 | 325 | 83.3 | 325 | 83.3 | . | . | 202 | 51.8 | 120 | 30.8 | 12 | 3.1 | . | . |
| | Age at diagnosis | 1-4 | 19 | . | . | 8 | 42.1 | 11 | 57.9 | . | . | 6 | 31.6 | 6 | 31.6 | . | . | . | . |
| | | 5-9 | 94 | . | . | 59 | 65.6 | 61 | 67.8 | . | . | 36 | 40.0 | 24 | 26.7 | 2 | 2.2 | . | . |
| | | 10-14 | 504 | 3 | 0.6 | 393 | 81.7 | 397 | 82.5 | . | . | 216 | 44.9 | 134 | 27.9 | 11 | 2.3 | . | . |
| | | 15-20 | 752 | 4 | 0.6 | 622 | 86.5 | 606 | 84.3 | . | . | 360 | 50.1 | 219 | 30.5 | 17 | 2.4 | 3 | 0.4 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: NHL

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|------------|-------------|------------|-------------|------------|-------------|-----------|------------|------------|-------------|------------|-------------|-----------|------------|-----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 1915 | 272 | 14.6 | 333 | 17.9 | 302 | 16.2 | 43 | 2.3 | 213 | 11.4 | 214 | 11.5 | 59 | 3.2 | 45 | 2.4 |
| | Age at baseline | <18 | 200 | 40 | 20.2 | 42 | 21.2 | 24 | 12.1 | 10 | 5.1 | 29 | 14.6 | 27 | 13.6 | 5 | 2.5 | 3 | 1.5 |
| | | 18-19 | 119 | 14 | 12.1 | 22 | 19.0 | 24 | 20.7 | 3 | 2.6 | 11 | 9.5 | 8 | 6.9 | 2 | 1.7 | 4 | 3.4 |
| | | 20-24 | 405 | 55 | 13.9 | 53 | 13.4 | 55 | 13.9 | 8 | 2.0 | 36 | 9.1 | 37 | 9.4 | 9 | 2.3 | 9 | 2.3 |
| | | 25-29 | 526 | 72 | 14.1 | 80 | 15.6 | 75 | 14.6 | 10 | 2.0 | 55 | 10.7 | 57 | 11.1 | 13 | 2.5 | 13 | 2.5 |
| | | 30-34 | 438 | 69 | 16.4 | 80 | 19.0 | 74 | 17.6 | 9 | 2.1 | 51 | 12.1 | 53 | 12.6 | 18 | 4.3 | 11 | 2.6 |
| | | 35+ | 227 | 22 | 9.9 | 56 | 25.2 | 50 | 22.5 | 3 | 1.4 | 31 | 14.0 | 32 | 14.4 | 12 | 5.4 | 5 | 2.3 |
| | Years since diagnosis | 5-9 | 132 | 27 | 21.1 | 35 | 27.1 | 29 | 22.5 | 8 | 6.3 | 16 | 12.4 | 13 | 10.1 | 6 | 4.7 | 2 | 1.6 |
| | | 10-14 | 609 | 82 | 13.7 | 106 | 17.7 | 95 | 15.8 | 12 | 2.0 | 57 | 9.5 | 55 | 9.2 | 18 | 3.0 | 14 | 2.3 |
| | | 15-19 | 657 | 105 | 16.5 | 106 | 16.6 | 96 | 15.0 | 13 | 2.0 | 73 | 11.4 | 77 | 12.1 | 16 | 2.5 | 20 | 3.1 |
| | | 20+ | 517 | 58 | 11.7 | 86 | 17.3 | 82 | 16.5 | 10 | 2.0 | 67 | 13.5 | 69 | 13.9 | 19 | 3.8 | 9 | 1.8 |
| | Age at diagnosis | <1 | 12 | 2 | 16.7 | 2 | 16.7 | . | . | . | . | . | . | . | . | . | . | 2 | 16.7 |
| | | 1-4 | 315 | 44 | 14.4 | 39 | 12.7 | 22 | 7.2 | 8 | 2.6 | 35 | 11.4 | 34 | 11.1 | 5 | 1.6 | 6 | 2.0 |
| | | 5-9 | 579 | 91 | 16.2 | 94 | 16.7 | 102 | 18.1 | 18 | 3.2 | 70 | 12.4 | 68 | 12.1 | 10 | 1.8 | 7 | 1.2 |
| | | 10-14 | 602 | 81 | 13.8 | 103 | 17.6 | 95 | 16.2 | 10 | 1.7 | 65 | 11.1 | 70 | 11.9 | 21 | 3.6 | 21 | 3.6 |
| | | 15-20 | 407 | 54 | 13.6 | 95 | 23.9 | 83 | 20.9 | 7 | 1.8 | 43 | 10.8 | 42 | 10.6 | 23 | 5.8 | 9 | 2.3 |
| Males | All cases | | 1290 | 189 | 15.0 | 215 | 17.0 | 207 | 16.4 | 31 | 2.5 | 154 | 12.2 | 152 | 12.0 | 37 | 2.9 | 30 | 2.4 |
| | Age at baseline | <18 | 138 | 28 | 20.4 | 28 | 20.4 | 16 | 11.7 | 7 | 5.1 | 22 | 16.1 | 21 | 15.3 | 3 | 2.2 | 1 | 0.7 |
| | | 18-19 | 87 | 10 | 11.9 | 19 | 22.6 | 20 | 23.8 | 1 | 1.2 | 8 | 9.5 | 5 | 6.0 | 2 | 2.4 | 2 | 2.4 |
| | | 20-24 | 264 | 37 | 14.4 | 37 | 14.4 | 34 | 13.2 | 6 | 2.3 | 26 | 10.1 | 25 | 9.7 | 3 | 1.2 | 5 | 1.9 |
| | | 25-29 | 367 | 52 | 14.4 | 51 | 14.1 | 48 | 13.3 | 7 | 1.9 | 42 | 11.6 | 44 | 12.2 | 7 | 1.9 | 10 | 2.8 |
| | | 30-34 | 286 | 46 | 16.5 | 44 | 15.8 | 52 | 18.7 | 7 | 2.5 | 34 | 12.2 | 34 | 12.2 | 13 | 4.7 | 8 | 2.9 |
| | | 35+ | 148 | 16 | 11.0 | 36 | 24.7 | 37 | 25.3 | 3 | 2.1 | 22 | 15.1 | 23 | 15.8 | 9 | 6.2 | 4 | 2.7 |
| | Years since diagnosis | 5-9 | 99 | 17 | 17.7 | 28 | 28.9 | 20 | 20.6 | 6 | 6.3 | 13 | 13.4 | 11 | 11.3 | 5 | 5.2 | 2 | 2.1 |
| | | 10-14 | 413 | 61 | 15.0 | 66 | 16.2 | 63 | 15.4 | 8 | 2.0 | 45 | 11.0 | 43 | 10.5 | 9 | 2.2 | 10 | 2.5 |
| | | 15-19 | 426 | 73 | 17.5 | 60 | 14.4 | 63 | 15.1 | 9 | 2.2 | 52 | 12.5 | 53 | 12.7 | 9 | 2.2 | 11 | 2.6 |
| | | 20+ | 352 | 38 | 11.1 | 61 | 17.8 | 61 | 17.8 | 8 | 2.3 | 44 | 12.9 | 45 | 13.2 | 14 | 4.1 | 7 | 2.0 |
| | Age at diagnosis | <1 | 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 1-4 | 211 | 31 | 15.2 | 29 | 14.2 | 16 | 7.8 | 7 | 3.4 | 26 | 12.7 | 25 | 12.3 | 3 | 1.5 | 4 | 2.0 |
| | | 5-9 | 404 | 63 | 15.9 | 64 | 16.2 | 68 | 17.2 | 11 | 2.8 | 50 | 12.6 | 46 | 11.6 | 3 | 0.8 | 3 | 0.8 |
| | | 10-14 | 409 | 58 | 14.5 | 64 | 16.0 | 66 | 16.5 | 6 | 1.5 | 46 | 11.5 | 50 | 12.5 | 14 | 3.5 | 17 | 4.2 |
| | | 15-20 | 263 | 37 | 14.3 | 58 | 22.4 | 57 | 22.0 | 7 | 2.7 | 32 | 12.4 | 31 | 12.0 | 17 | 6.6 | 6 | 2.3 |
| Females | All cases | | 625 | 83 | 13.8 | 118 | 19.6 | 95 | 15.8 | 12 | 2.0 | 59 | 9.8 | 62 | 10.3 | 22 | 3.7 | 15 | 2.5 |
| | Age at baseline | <18 | 62 | 12 | 19.7 | 14 | 23.0 | 8 | 13.1 | 3 | 4.9 | 7 | 11.5 | 6 | 9.8 | 2 | 3.3 | 2 | 3.3 |
| | | 18-19 | 32 | 4 | 12.5 | 3 | 9.4 | 4 | 12.5 | 2 | 6.3 | 3 | 9.4 | 3 | 9.4 | . | . | 2 | 6.3 |
| | | 20-24 | 141 | 18 | 13.0 | 16 | 11.6 | 21 | 15.2 | 2 | 1.4 | 10 | 7.2 | 12 | 8.7 | 6 | 4.3 | 4 | 2.9 |
| | | 25-29 | 159 | 20 | 13.2 | 29 | 19.1 | 27 | 17.8 | 3 | 2.0 | 13 | 8.6 | 13 | 8.6 | 6 | 3.9 | 3 | 2.0 |
| | | 30-34 | 152 | 23 | 16.2 | 36 | 25.4 | 22 | 15.5 | 2 | 1.4 | 17 | 11.9 | 19 | 13.3 | 5 | 3.5 | 3 | 2.1 |
| | | 35+ | 79 | 6 | 7.9 | 20 | 26.3 | 13 | 17.1 | . | . | 9 | 11.8 | 9 | 11.8 | 3 | 3.9 | 1 | 1.3 |
| | Years since diagnosis | 5-9 | 33 | 10 | 31.3 | 7 | 21.9 | 9 | 28.1 | 2 | 6.3 | 3 | 9.4 | 2 | 6.3 | 1 | 3.1 | . | . |
| | | 10-14 | 196 | 21 | 10.9 | 40 | 20.8 | 32 | 16.7 | 4 | 2.1 | 12 | 6.3 | 12 | 6.3 | 9 | 4.7 | 4 | 2.1 |
| | | 15-19 | 231 | 32 | 14.4 | 46 | 20.7 | 33 | 14.9 | 4 | 1.8 | 21 | 9.4 | 24 | 10.8 | 7 | 3.2 | 9 | 4.1 |
| | | 20+ | 165 | 20 | 12.9 | 25 | 16.1 | 21 | 13.5 | 2 | 1.3 | 23 | 14.8 | 24 | 15.5 | 5 | 3.2 | 2 | 1.3 |
| | Age at diagnosis | <1 | 9 | 2 | 22.2 | 2 | 22.2 | . | . | . | . | . | . | . | . | . | . | 2 | 22.2 |
| | | 1-4 | 104 | 13 | 12.7 | 10 | 9.8 | 6 | 5.9 | 1 | 1.0 | 9 | 8.8 | 9 | 8.8 | 2 | 2.0 | 2 | 2.0 |
| | | 5-9 | 175 | 28 | 16.8 | 30 | 18.0 | 34 | 20.4 | 7 | 4.2 | 20 | 12.0 | 22 | 13.2 | 7 | 4.2 | 4 | 2.4 |

Radiotherapy by body region: NHL

| | | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | |
|--|--|-------|-----------|-------|------|-------|------|------|------|-------|-----|---------|------|--------|------|------|-----|-----|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 193 | 23 | 12.4 | 39 | 21.1 | 29 | 15.7 | 4 | 2.2 | 19 | 10.3 | 20 | 10.8 | 7 | 3.8 | 4 | 2.2 |
| | | 15-20 | 144 | 17 | 12.3 | 37 | 26.8 | 26 | 18.8 | . | . | 11 | 7.9 | 11 | 7.9 | 6 | 4.3 | 3 | 2.2 |

Radiotherapy by body region: Wilms

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|----------|------------|------------|-------------|-----------|------------|----------|----------|-------------|-------------|------------|-------------|----------|------------|----------|----------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 2070 | 4 | 0.2 | 415 | 20.7 | 27 | 1.3 | . | . | 1060 | 52.9 | 656 | 32.8 | 5 | 0.2 | . | . |
| | Age at baseline | <18 | 761 | . | . | 145 | 19.4 | 9 | 1.2 | . | . | 344 | 46.1 | 214 | 28.6 | 1 | 0.1 | . | . |
| | | 18-19 | 275 | 1 | 0.4 | 49 | 18.6 | 3 | 1.1 | . | . | 143 | 54.2 | 89 | 33.7 | . | . | . | . |
| | | 20-24 | 611 | 3 | 0.5 | 121 | 20.5 | 9 | 1.5 | . | . | 319 | 54.0 | 199 | 33.7 | 1 | 0.2 | . | . |
| | | 25-29 | 342 | . | . | 81 | 24.9 | 4 | 1.2 | . | . | 207 | 63.7 | 129 | 39.7 | 2 | 0.6 | . | . |
| | | 30-34 | 66 | . | . | 15 | 24.2 | 2 | 3.2 | . | . | 38 | 61.3 | 22 | 35.5 | 1 | 1.6 | . | . |
| | | 35+ | 15 | . | . | 4 | 28.6 | . | . | . | . | 9 | 64.3 | 3 | 21.4 | . | . | . | . |
| | Years since diagnosis | 5-9 | 167 | 1 | 0.6 | 43 | 26.1 | 4 | 2.4 | . | . | 85 | 51.5 | 47 | 28.5 | 1 | 0.6 | . | . |
| | | 10-14 | 675 | 1 | 0.2 | 143 | 21.7 | 10 | 1.5 | . | . | 335 | 50.7 | 217 | 32.8 | 1 | 0.2 | . | . |
| | | 15-19 | 679 | 2 | 0.3 | 124 | 19.0 | 6 | 0.9 | . | . | 348 | 53.3 | 210 | 32.2 | 1 | 0.2 | . | . |
| | | 20+ | 549 | . | . | 105 | 20.0 | 7 | 1.3 | . | . | 292 | 55.7 | 182 | 34.7 | 2 | 0.4 | . | . |
| | Age at diagnosis | <1 | 301 | . | . | 14 | 4.7 | . | . | . | . | 68 | 23.1 | 39 | 13.2 | . | . | . | . |
| | | 1-4 | 1261 | 2 | 0.2 | 238 | 19.5 | 13 | 1.1 | . | . | 665 | 54.4 | 418 | 34.2 | 1 | 0.1 | . | . |
| | | 5-9 | 434 | 1 | 0.2 | 145 | 34.8 | 13 | 3.1 | . | . | 277 | 66.4 | 171 | 41.0 | 2 | 0.5 | . | . |
| | | 10-14 | 54 | . | . | 16 | 31.4 | . | . | . | . | 39 | 76.5 | 24 | 47.1 | 1 | 2.0 | . | . |
| | | 15-20 | 20 | 1 | 5.6 | 2 | 11.1 | 1 | 5.6 | . | . | 11 | 61.1 | 4 | 22.2 | 1 | 5.6 | . | . |
| Males | All cases | | 917 | . | . | 183 | 20.7 | 11 | 1.2 | . | . | 454 | 51.2 | 276 | 31.1 | 1 | 0.1 | . | . |
| | Age at baseline | <18 | 369 | . | . | 68 | 18.9 | 2 | 0.6 | . | . | 166 | 46.1 | 107 | 29.7 | . | . | . | . |
| | | 18-19 | 111 | . | . | 21 | 19.3 | 2 | 1.8 | . | . | 50 | 45.9 | 32 | 29.4 | . | . | . | . |
| | | 20-24 | 252 | . | . | 47 | 19.7 | 2 | 0.8 | . | . | 121 | 50.8 | 72 | 30.3 | . | . | . | . |
| | | 25-29 | 152 | . | . | 39 | 26.4 | 4 | 2.7 | . | . | 98 | 66.2 | 54 | 36.5 | 1 | 0.7 | . | . |
| | | 30-34 | 27 | . | . | 7 | 26.9 | 1 | 3.8 | . | . | 16 | 61.5 | 11 | 42.3 | . | . | . | . |
| | | 35+ | 6 | . | . | 1 | 16.7 | . | . | . | . | 3 | 50.0 | . | . | . | . | . | . |
| | Years since diagnosis | 5-9 | 74 | . | . | 20 | 27.0 | 1 | 1.4 | . | . | 41 | 55.4 | 26 | 35.1 | . | . | . | . |
| | | 10-14 | 307 | . | . | 60 | 20.2 | 3 | 1.0 | . | . | 137 | 46.0 | 86 | 28.9 | . | . | . | . |
| | | 15-19 | 289 | . | . | 53 | 19.0 | 2 | 0.7 | . | . | 139 | 49.8 | 83 | 29.7 | . | . | . | . |
| | | 20+ | 247 | . | . | 50 | 21.2 | 5 | 2.1 | . | . | 137 | 58.1 | 81 | 34.3 | 1 | 0.4 | . | . |
| | Age at diagnosis | <1 | 149 | . | . | 6 | 4.1 | . | . | . | . | 32 | 22.1 | 21 | 14.5 | . | . | . | . |
| | | 1-4 | 564 | . | . | 112 | 20.6 | 5 | 0.9 | . | . | 299 | 54.8 | 185 | 33.9 | . | . | . | . |
| | | 5-9 | 177 | . | . | 57 | 33.7 | 6 | 3.6 | . | . | 104 | 61.5 | 61 | 36.1 | 1 | 0.6 | . | . |
| | | 10-14 | 19 | . | . | 7 | 36.8 | . | . | . | . | 15 | 78.9 | 8 | 42.1 | . | . | . | . |
| | | 15-20 | 8 | . | . | 1 | 12.5 | . | . | . | . | 4 | 50.0 | 1 | 12.5 | . | . | . | . |
| Females | All cases | | 1153 | 4 | 0.4 | 232 | 20.8 | 16 | 1.4 | . | . | 606 | 54.3 | 380 | 34.1 | 4 | 0.4 | . | . |
| | Age at baseline | <18 | 392 | . | . | 77 | 19.9 | 7 | 1.8 | . | . | 178 | 46.0 | 107 | 27.6 | 1 | 0.3 | . | . |
| | | 18-19 | 164 | 1 | 0.6 | 28 | 18.1 | 1 | 0.6 | . | . | 93 | 60.0 | 57 | 36.8 | . | . | . | . |
| | | 20-24 | 359 | 3 | 0.8 | 74 | 21.0 | 7 | 2.0 | . | . | 198 | 56.1 | 127 | 36.0 | 1 | 0.3 | . | . |
| | | 25-29 | 190 | . | . | 42 | 23.7 | . | . | . | . | 109 | 61.6 | 75 | 42.4 | 1 | 0.6 | . | . |
| | | 30-34 | 39 | . | . | 8 | 22.2 | 1 | 2.8 | . | . | 22 | 61.1 | 11 | 30.6 | 1 | 2.8 | . | . |
| | | 35+ | 9 | . | . | 3 | 37.5 | . | . | . | . | 6 | 75.0 | 3 | 37.5 | . | . | . | . |
| | Years since diagnosis | 5-9 | 93 | 1 | 1.1 | 23 | 25.3 | 3 | 3.3 | . | . | 44 | 48.4 | 21 | 23.1 | 1 | 1.1 | . | . |
| | | 10-14 | 368 | 1 | 0.3 | 83 | 22.9 | 7 | 1.9 | . | . | 198 | 54.5 | 131 | 36.1 | 1 | 0.3 | . | . |
| | | 15-19 | 390 | 2 | 0.5 | 71 | 19.0 | 4 | 1.1 | . | . | 209 | 55.9 | 127 | 34.0 | 1 | 0.3 | . | . |
| | | 20+ | 302 | . | . | 55 | 19.1 | 2 | 0.7 | . | . | 155 | 53.8 | 101 | 35.1 | 1 | 0.3 | . | . |
| | Age at diagnosis | <1 | 152 | . | . | 8 | 5.3 | . | . | . | . | 36 | 24.0 | 18 | 12.0 | . | . | . | . |
| | | 1-4 | 697 | 2 | 0.3 | 126 | 18.6 | 8 | 1.2 | . | . | 366 | 54.1 | 233 | 34.5 | 1 | 0.1 | . | . |
| | | 5-9 | 257 | 1 | 0.4 | 88 | 35.5 | 7 | 2.8 | . | . | 173 | 69.8 | 110 | 44.4 | 1 | 0.4 | . | . |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: Wilms

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|-------|----|-----------|------|-------|------|------|------|-------|---|---------|------|--------|------|------|------|-----|---|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | 10-14 | 35 | . | . | 9 | 28.1 | . | . | . | . | 24 | 75.0 | 16 | 50.0 | 1 | 3.1 | . | . | |
| | 15-20 | 12 | 1 | 10.0 | 1 | 10.0 | 1 | 10.0 | . | . | 7 | 70.0 | 3 | 30.0 | 1 | 10.0 | . | . | |

Radiotherapy by body region: Neuroblastoma

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | | |
|-------------------|------------------------------|-------|-------------|-----------|------------|------------|-------------|-----------|------------|-----------|------------|------------|-------------|------------|-------------|-----------|------------|-----------|------------|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % | |
| Both sexes | All cases | | 1798 | 96 | 5.5 | 247 | 14.1 | 94 | 5.4 | 13 | 0.7 | 394 | 22.5 | 199 | 11.4 | 31 | 1.8 | 93 | 5.3 | |
| | Age at baseline | <18 | 889 | 48 | 5.5 | 115 | 13.2 | 40 | 4.6 | 6 | 0.7 | 169 | 19.4 | 86 | 9.9 | 18 | 2.1 | 46 | 5.3 | |
| | | 18-19 | 216 | 8 | 3.8 | 28 | 13.1 | 14 | 6.6 | 4 | 1.9 | 40 | 18.8 | 27 | 12.7 | 3 | 1.4 | 6 | 2.8 | |
| | | 20-24 | 504 | 25 | 5.1 | 74 | 15.1 | 27 | 5.5 | 1 | 0.2 | 134 | 27.3 | 60 | 12.2 | 9 | 1.8 | 25 | 5.1 | |
| | | 25-29 | 150 | 10 | 7.1 | 21 | 14.9 | 8 | 5.7 | 1 | 0.7 | 40 | 28.4 | 20 | 14.2 | 1 | 0.7 | 12 | 8.5 | |
| | | 30-34 | 34 | 3 | 9.1 | 9 | 27.3 | 5 | 15.2 | 1 | 3.0 | 11 | 33.3 | 6 | 18.2 | . | . | 4 | 12.1 | |
| | | 35+ | 5 | 2 | 50.0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | Years since diagnosis | 5-9 | 152 | 18 | 12.5 | 29 | 20.1 | 12 | 8.3 | 1 | 0.7 | 45 | 31.3 | 20 | 13.9 | 11 | 7.6 | 15 | 10.4 | |
| | | 10-14 | 558 | 28 | 5.1 | 75 | 13.6 | 26 | 4.7 | 7 | 1.3 | 107 | 19.4 | 56 | 10.2 | 8 | 1.5 | 27 | 4.9 | |
| | | 15-19 | 594 | 26 | 4.5 | 75 | 12.9 | 34 | 5.9 | 4 | 0.7 | 118 | 20.3 | 61 | 10.5 | 8 | 1.4 | 30 | 5.2 | |
| | | 20+ | 494 | 24 | 5.0 | 68 | 14.2 | 22 | 4.6 | 1 | 0.2 | 124 | 25.9 | 62 | 13.0 | 4 | 0.8 | 21 | 4.4 | |
| | Age at diagnosis | <1 | 912 | 24 | 2.7 | 83 | 9.2 | 30 | 3.3 | . | . | 127 | 14.0 | 68 | 7.5 | 7 | 0.8 | 8 | 0.9 | |
| | | 1-4 | 706 | 50 | 7.4 | 128 | 19.0 | 44 | 6.5 | 9 | 1.3 | 205 | 30.5 | 106 | 15.8 | 18 | 2.7 | 68 | 10.1 | |
| | | 5-9 | 137 | 14 | 10.4 | 27 | 20.1 | 15 | 11.2 | 3 | 2.2 | 51 | 38.1 | 18 | 13.4 | 4 | 3.0 | 14 | 10.4 | |
| | | 10-14 | 27 | 5 | 19.2 | 5 | 19.2 | 2 | 7.7 | . | . | 5 | 19.2 | 5 | 19.2 | 1 | 3.8 | 1 | 3.8 | |
| | | 15-20 | 16 | 3 | 20.0 | 4 | 26.7 | 3 | 20.0 | 1 | 6.7 | 6 | 40.0 | 2 | 13.3 | 1 | 6.7 | 2 | 13.3 | |
| Males | All cases | | 870 | 39 | 4.6 | 124 | 14.7 | 42 | 5.0 | 4 | 0.5 | 189 | 22.3 | 89 | 10.5 | 17 | 2.0 | 53 | 6.3 | |
| | Age at baseline | <18 | 440 | 17 | 4.0 | 56 | 13.1 | 17 | 4.0 | 1 | 0.2 | 84 | 19.6 | 36 | 8.4 | 10 | 2.3 | 28 | 6.5 | |
| | | 18-19 | 94 | 5 | 5.4 | 12 | 13.0 | 8 | 8.7 | 2 | 2.2 | 20 | 21.7 | 13 | 14.1 | 2 | 2.2 | 4 | 4.3 | |
| | | 20-24 | 255 | 11 | 4.4 | 38 | 15.3 | 10 | 4.0 | 1 | 0.4 | 60 | 24.1 | 30 | 12.0 | 4 | 1.6 | 12 | 4.8 | |
| | | 25-29 | 65 | 4 | 6.5 | 12 | 19.4 | 4 | 6.5 | . | . | 18 | 29.0 | 7 | 11.3 | 1 | 1.6 | 7 | 11.3 | |
| | | 30-34 | 14 | 1 | 7.1 | 6 | 42.9 | 3 | 21.4 | . | . | 7 | 50.0 | 3 | 21.4 | . | . | 2 | 14.3 | |
| | | 35+ | 2 | 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| | Years since diagnosis | 5-9 | 72 | 10 | 14.9 | 12 | 17.9 | 6 | 9.0 | 1 | 1.5 | 19 | 28.4 | 9 | 13.4 | 4 | 6.0 | 8 | 11.9 | |
| | | 10-14 | 274 | 8 | 3.0 | 38 | 14.1 | 10 | 3.7 | 1 | 0.4 | 54 | 20.1 | 25 | 9.3 | 5 | 1.9 | 18 | 6.7 | |
| | | 15-19 | 283 | 9 | 3.3 | 38 | 13.8 | 18 | 6.5 | 2 | 0.7 | 56 | 20.4 | 23 | 8.4 | 6 | 2.2 | 14 | 5.1 | |
| | | 20+ | 241 | 12 | 5.1 | 36 | 15.3 | 8 | 3.4 | . | . | 60 | 25.5 | 32 | 13.6 | 2 | 0.9 | 13 | 5.5 | |
| | Age at diagnosis | <1 | 470 | 12 | 2.6 | 43 | 9.2 | 15 | 3.2 | . | . | 61 | 13.1 | 32 | 6.9 | 7 | 1.5 | 7 | 1.5 | |
| | | 1-4 | 317 | 18 | 6.0 | 63 | 21.1 | 17 | 5.7 | 3 | 1.0 | 96 | 32.1 | 45 | 15.1 | 8 | 2.7 | 37 | 12.4 | |
| | | 5-9 | 67 | 7 | 10.8 | 13 | 20.0 | 7 | 10.8 | 1 | 1.5 | 28 | 43.1 | 11 | 16.9 | 2 | 3.1 | 8 | 12.3 | |
| | | 10-14 | 10 | 1 | 10.0 | 3 | 30.0 | 1 | 10.0 | . | . | 3 | 30.0 | 1 | 10.0 | . | . | . | . | |
| | | 15-20 | 6 | 1 | 20.0 | 2 | 40.0 | 2 | 40.0 | . | . | 1 | 20.0 | . | . | . | . | 1 | 20.0 | |
| Females | All cases | | 928 | 57 | 6.3 | 123 | 13.6 | 52 | 5.7 | 9 | 1.0 | 205 | 22.6 | 110 | 12.1 | 14 | 1.5 | 40 | 4.4 | |
| | Age at baseline | <18 | 449 | 31 | 7.0 | 59 | 13.3 | 23 | 5.2 | 5 | 1.1 | 85 | 19.2 | 50 | 11.3 | 8 | 1.8 | 18 | 4.1 | |
| | | 18-19 | 122 | 3 | 2.5 | 16 | 13.2 | 6 | 5.0 | 2 | 1.7 | 20 | 16.5 | 14 | 11.6 | 1 | 0.8 | 2 | 1.7 | |
| | | 20-24 | 249 | 14 | 5.8 | 36 | 14.9 | 17 | 7.0 | . | . | 74 | 30.6 | 30 | 12.4 | 5 | 2.1 | 13 | 5.4 | |
| | | 25-29 | 85 | 6 | 7.6 | 9 | 11.4 | 4 | 5.1 | 1 | 1.3 | 22 | 27.8 | 13 | 16.5 | . | . | 5 | 6.3 | |
| | | 30-34 | 20 | 2 | 10.5 | 3 | 15.8 | 2 | 10.5 | 1 | 5.3 | 4 | 21.1 | 3 | 15.8 | . | . | 2 | 10.5 | |
| | | 35+ | 3 | 1 | 33.3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| | Years since diagnosis | 5-9 | 80 | 8 | 10.4 | 17 | 22.1 | 6 | 7.8 | . | . | 26 | 33.8 | 11 | 14.3 | 7 | 9.1 | 7 | 9.1 | |
| | | 10-14 | 284 | 20 | 7.1 | 37 | 13.1 | 16 | 5.7 | 6 | 2.1 | 53 | 18.8 | 31 | 11.0 | 3 | 1.1 | 9 | 3.2 | |
| | | 15-19 | 311 | 17 | 5.6 | 37 | 12.1 | 16 | 5.2 | 2 | 0.7 | 62 | 20.3 | 38 | 12.5 | 2 | 0.7 | 16 | 5.2 | |
| | | 20+ | 253 | 12 | 4.9 | 32 | 13.2 | 14 | 5.8 | 1 | 0.4 | 64 | 26.3 | 30 | 12.3 | 2 | 0.8 | 8 | 3.3 | |
| | Age at diagnosis | <1 | 442 | 12 | 2.7 | 40 | 9.1 | 15 | 3.4 | . | . | 66 | 15.1 | 36 | 8.2 | . | . | 1 | 0.2 | |
| | | 1-4 | 389 | 32 | 8.5 | 65 | 17.4 | 27 | 7.2 | 6 | 1.6 | 109 | 29.1 | 61 | 16.3 | 10 | 2.7 | 31 | 8.3 | |
| | | 5-9 | 70 | 7 | 10.1 | 14 | 20.3 | 8 | 11.6 | 2 | 2.9 | 23 | 33.3 | 7 | 10.1 | 2 | 2.9 | 6 | 8.7 | |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: Neuroblastoma

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|---|-------|---|------|---|-------|---|---------|---|--------|---|------|---|------|---|------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 17 | 4 | 25.0 | 2 | 12.5 | 1 | 6.3 | . | . | 2 | 12.5 | 4 | 25.0 | 1 | 6.3 | 1 | 6.3 |
| | | 15-20 | 10 | 2 | 20.0 | 2 | 20.0 | 1 | 10.0 | 1 | 10.0 | 5 | 50.0 | 2 | 20.0 | 1 | 10.0 | 1 | 10.0 |

Radiotherapy by body region: STS

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|------------|-------------|------------|-------------|------------|-------------|-----------|------------|------------|-------------|------------|-------------|------------|-------------|----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 1588 | 320 | 21.0 | 157 | 10.3 | 164 | 10.7 | 11 | 0.7 | 153 | 10.0 | 297 | 19.5 | 151 | 9.9 | 5 | 0.3 |
| | Age at baseline | <18 | 313 | 72 | 23.8 | 26 | 8.6 | 29 | 9.6 | 2 | 0.7 | 29 | 9.6 | 67 | 22.1 | 16 | 5.3 | 3 | 1.0 |
| | | 18-19 | 115 | 33 | 29.2 | 12 | 10.6 | 15 | 13.3 | 4 | 3.5 | 12 | 10.6 | 21 | 18.6 | 7 | 6.2 | . | . |
| | | 20-24 | 382 | 86 | 23.4 | 42 | 11.4 | 37 | 10.1 | 2 | 0.5 | 38 | 10.3 | 81 | 22.0 | 28 | 7.6 | . | . |
| | | 25-29 | 351 | 74 | 22.2 | 33 | 9.9 | 40 | 12.0 | 2 | 0.6 | 32 | 9.6 | 57 | 17.1 | 43 | 12.9 | 2 | 0.6 |
| | | 30-34 | 264 | 41 | 16.3 | 32 | 12.7 | 31 | 12.4 | 1 | 0.4 | 27 | 10.8 | 48 | 19.1 | 38 | 15.1 | . | . |
| | | 35+ | 163 | 14 | 8.9 | 12 | 7.6 | 12 | 7.6 | . | . | 15 | 9.6 | 23 | 14.6 | 19 | 12.1 | . | . |
| | Years since diagnosis | 5-9 | 165 | 37 | 23.1 | 27 | 16.8 | 17 | 10.6 | 2 | 1.3 | 15 | 9.4 | 31 | 19.4 | 23 | 14.4 | 2 | 1.3 |
| | | 10-14 | 473 | 97 | 21.3 | 36 | 7.9 | 45 | 9.9 | 4 | 0.9 | 48 | 10.5 | 87 | 19.1 | 44 | 9.7 | 1 | 0.2 |
| | | 15-19 | 498 | 96 | 19.8 | 56 | 11.6 | 58 | 12.0 | 5 | 1.0 | 45 | 9.3 | 93 | 19.2 | 45 | 9.3 | 2 | 0.4 |
| | | 20+ | 452 | 90 | 21.1 | 38 | 8.9 | 44 | 10.3 | . | . | 45 | 10.5 | 86 | 20.1 | 39 | 9.1 | . | . |
| | Age at diagnosis | <1 | 108 | 9 | 8.7 | 1 | 1.0 | 2 | 1.9 | . | . | 4 | 3.8 | 13 | 12.5 | . | . | . | . |
| | | 1-4 | 507 | 124 | 25.4 | 45 | 9.2 | 53 | 10.9 | 3 | 0.6 | 53 | 10.9 | 128 | 26.2 | 28 | 5.7 | 2 | 0.4 |
| | | 5-9 | 361 | 115 | 33.2 | 39 | 11.3 | 48 | 13.9 | 4 | 1.2 | 37 | 10.7 | 56 | 16.2 | 33 | 9.5 | 2 | 0.6 |
| | | 10-14 | 311 | 54 | 18.1 | 47 | 15.8 | 35 | 11.7 | 4 | 1.3 | 34 | 11.4 | 52 | 17.4 | 44 | 14.8 | 1 | 0.3 |
| | | 15-20 | 301 | 18 | 6.2 | 25 | 8.6 | 26 | 9.0 | . | . | 25 | 8.6 | 48 | 16.6 | 46 | 15.9 | . | . |
| Males | All cases | | 847 | 166 | 20.4 | 82 | 10.1 | 89 | 11.0 | 7 | 0.9 | 91 | 11.2 | 179 | 22.0 | 65 | 8.0 | 3 | 0.4 |
| | Age at baseline | <18 | 179 | 38 | 22.1 | 15 | 8.7 | 14 | 8.1 | 1 | 0.6 | 19 | 11.0 | 46 | 26.7 | 8 | 4.7 | 2 | 1.2 |
| | | 18-19 | 58 | 13 | 22.8 | 7 | 12.3 | 9 | 15.8 | 3 | 5.3 | 7 | 12.3 | 13 | 22.8 | 1 | 1.8 | . | . |
| | | 20-24 | 213 | 47 | 22.8 | 25 | 12.1 | 22 | 10.7 | 1 | 0.5 | 21 | 10.2 | 47 | 22.8 | 15 | 7.3 | . | . |
| | | 25-29 | 179 | 37 | 21.9 | 15 | 8.9 | 18 | 10.7 | 1 | 0.6 | 14 | 8.3 | 31 | 18.3 | 17 | 10.1 | 1 | 0.6 |
| | | 30-34 | 139 | 25 | 19.1 | 14 | 10.7 | 18 | 13.7 | 1 | 0.8 | 19 | 14.5 | 29 | 22.1 | 15 | 11.5 | . | . |
| | | 35+ | 79 | 6 | 7.8 | 6 | 7.8 | 8 | 10.4 | . | . | 11 | 14.3 | 13 | 16.9 | 9 | 11.7 | . | . |
| | Years since diagnosis | 5-9 | 89 | 20 | 23.3 | 16 | 18.4 | 9 | 10.5 | 1 | 1.2 | 8 | 9.3 | 20 | 23.3 | 11 | 12.8 | 2 | 2.3 |
| | | 10-14 | 264 | 52 | 20.5 | 19 | 7.5 | 25 | 9.8 | 2 | 0.8 | 30 | 11.8 | 54 | 21.3 | 19 | 7.5 | . | . |
| | | 15-19 | 252 | 45 | 18.4 | 26 | 10.7 | 31 | 12.7 | 4 | 1.6 | 23 | 9.4 | 56 | 23.0 | 16 | 6.6 | 1 | 0.4 |
| | | 20+ | 242 | 49 | 21.5 | 21 | 9.2 | 24 | 10.5 | . | . | 30 | 13.2 | 49 | 21.5 | 19 | 8.3 | . | . |
| | Age at diagnosis | <1 | 44 | . | . | . | . | . | . | . | . | 1 | 2.5 | 6 | 15.0 | . | . | . | . |
| | | 1-4 | 293 | 64 | 22.6 | 25 | 8.8 | 31 | 11.0 | 2 | 0.7 | 32 | 11.3 | 79 | 27.9 | 13 | 4.6 | 1 | 0.4 |
| | | 5-9 | 202 | 61 | 31.8 | 23 | 12.0 | 22 | 11.5 | 3 | 1.6 | 21 | 10.9 | 34 | 17.7 | 11 | 5.7 | 1 | 0.5 |
| | | 10-14 | 167 | 34 | 21.1 | 23 | 14.3 | 23 | 14.3 | 2 | 1.2 | 20 | 12.4 | 34 | 21.1 | 23 | 14.3 | 1 | 0.6 |
| | | 15-20 | 141 | 7 | 5.1 | 11 | 8.1 | 13 | 9.6 | . | . | 17 | 12.5 | 26 | 19.1 | 18 | 13.2 | . | . |
| Females | All cases | | 741 | 154 | 21.6 | 75 | 10.5 | 75 | 10.5 | 4 | 0.6 | 62 | 8.7 | 118 | 16.5 | 86 | 12.0 | 2 | 0.3 |
| | Age at baseline | <18 | 134 | 34 | 26.0 | 11 | 8.4 | 15 | 11.5 | 1 | 0.8 | 10 | 7.6 | 21 | 16.0 | 8 | 6.1 | 1 | 0.8 |
| | | 18-19 | 57 | 20 | 35.7 | 5 | 8.9 | 6 | 10.7 | 1 | 1.8 | 5 | 8.9 | 8 | 14.3 | 6 | 10.7 | . | . |
| | | 20-24 | 169 | 39 | 24.1 | 17 | 10.5 | 15 | 9.3 | 1 | 0.6 | 17 | 10.5 | 34 | 21.0 | 13 | 8.0 | . | . |
| | | 25-29 | 172 | 37 | 22.4 | 18 | 10.9 | 22 | 13.3 | 1 | 0.6 | 18 | 10.9 | 26 | 15.8 | 26 | 15.8 | 1 | 0.6 |
| | | 30-34 | 125 | 16 | 13.3 | 18 | 15.0 | 13 | 10.8 | . | . | 8 | 6.7 | 19 | 15.8 | 23 | 19.2 | . | . |
| | | 35+ | 84 | 8 | 10.0 | 6 | 7.5 | 4 | 5.0 | . | . | 4 | 5.0 | 10 | 12.5 | 10 | 12.5 | . | . |
| | Years since diagnosis | 5-9 | 76 | 17 | 23.0 | 11 | 14.9 | 8 | 10.8 | 1 | 1.4 | 7 | 9.5 | 11 | 14.9 | 12 | 16.2 | . | . |
| | | 10-14 | 209 | 45 | 22.4 | 17 | 8.5 | 20 | 10.0 | 2 | 1.0 | 18 | 9.0 | 33 | 16.4 | 25 | 12.4 | 1 | 0.5 |
| | | 15-19 | 246 | 51 | 21.3 | 30 | 12.5 | 27 | 11.3 | 1 | 0.4 | 22 | 9.2 | 37 | 15.4 | 29 | 12.1 | 1 | 0.4 |
| | | 20+ | 210 | 41 | 20.6 | 17 | 8.5 | 20 | 10.1 | . | . | 15 | 7.5 | 37 | 18.6 | 20 | 10.1 | . | . |
| | Age at diagnosis | <1 | 64 | 9 | 14.1 | 1 | 1.6 | 2 | 3.1 | . | . | 3 | 4.7 | 7 | 10.9 | . | . | . | . |
| | | 1-4 | 214 | 60 | 29.3 | 20 | 9.8 | 22 | 10.7 | 1 | 0.5 | 21 | 10.2 | 49 | 23.9 | 15 | 7.3 | 1 | 0.5 |
| | | 5-9 | 159 | 54 | 35.1 | 16 | 10.4 | 26 | 16.9 | 1 | 0.6 | 16 | 10.4 | 22 | 14.3 | 22 | 14.3 | 1 | 0.6 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: STS

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|----|-------|----|------|----|-------|---|---------|----|--------|----|------|----|------|---|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 144 | 20 | 14.6 | 24 | 17.5 | 12 | 8.8 | 2 | 1.5 | 14 | 10.2 | 18 | 13.1 | 21 | 15.3 | . | . |
| | | 15-20 | 160 | 11 | 7.1 | 14 | 9.1 | 13 | 8.4 | . | . | 8 | 5.2 | 22 | 14.3 | 28 | 18.2 | . | . |

Radiotherapy by body region: All bone

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|-----------|------------|------------|-------------|-----------|------------|----------|------------|-----------|------------|------------|------------|------------|-------------|-----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 1931 | 49 | 2.6 | 221 | 11.7 | 33 | 1.7 | 2 | 0.1 | 85 | 4.5 | 156 | 8.3 | 238 | 12.6 | 16 | 0.8 |
| | Age at baseline | <18 | 85 | 6 | 7.2 | 18 | 21.7 | 3 | 3.6 | . | . | 11 | 13.3 | 11 | 13.3 | 13 | 15.7 | 3 | 3.6 |
| | | 18-19 | 66 | 2 | 3.1 | 15 | 23.1 | 3 | 4.6 | . | . | 4 | 6.2 | 8 | 12.3 | 11 | 16.9 | . | . |
| | | 20-24 | 359 | 18 | 5.1 | 56 | 15.9 | 9 | 2.6 | 1 | 0.3 | 19 | 5.4 | 41 | 11.6 | 44 | 12.5 | 6 | 1.7 |
| | | 25-29 | 528 | 13 | 2.5 | 57 | 11.1 | 6 | 1.2 | . | . | 21 | 4.1 | 40 | 7.8 | 62 | 12.1 | 4 | 0.8 |
| | | 30-34 | 517 | 7 | 1.4 | 47 | 9.4 | 8 | 1.6 | 1 | 0.2 | 21 | 4.2 | 28 | 5.6 | 58 | 11.6 | 2 | 0.4 |
| | | 35+ | 376 | 3 | 0.8 | 28 | 7.5 | 4 | 1.1 | . | . | 9 | 2.4 | 28 | 7.5 | 50 | 13.4 | 1 | 0.3 |
| | Years since diagnosis | 5-9 | 214 | 10 | 4.8 | 45 | 21.5 | 8 | 3.8 | . | . | 16 | 7.7 | 32 | 15.3 | 40 | 19.1 | 4 | 1.9 |
| | | 10-14 | 629 | 11 | 1.8 | 63 | 10.2 | 7 | 1.1 | . | . | 26 | 4.2 | 54 | 8.7 | 64 | 10.4 | 7 | 1.1 |
| | | 15-19 | 633 | 20 | 3.2 | 62 | 10.1 | 11 | 1.8 | 1 | 0.2 | 25 | 4.1 | 40 | 6.5 | 71 | 11.5 | 3 | 0.5 |
| | | 20+ | 455 | 8 | 1.8 | 51 | 11.5 | 7 | 1.6 | 1 | 0.2 | 18 | 4.1 | 30 | 6.8 | 63 | 14.2 | 2 | 0.5 |
| | Age at diagnosis | <1 | 8 | 1 | 12.5 | . | . | . | . | . | . | 1 | 12.5 | 1 | 12.5 | 1 | 12.5 | 1 | 12.5 |
| | | 1-4 | 80 | 7 | 9.1 | 16 | 20.8 | 5 | 6.5 | 1 | 1.3 | 7 | 9.1 | 6 | 7.8 | 8 | 10.4 | . | . |
| | | 5-9 | 338 | 18 | 5.5 | 52 | 15.9 | 5 | 1.5 | 1 | 0.3 | 22 | 6.7 | 29 | 8.8 | 44 | 13.4 | 5 | 1.5 |
| | | 10-14 | 774 | 11 | 1.5 | 90 | 11.9 | 16 | 2.1 | . | . | 31 | 4.1 | 66 | 8.7 | 94 | 12.4 | 6 | 0.8 |
| | | 15-20 | 731 | 12 | 1.7 | 63 | 8.8 | 7 | 1.0 | . | . | 24 | 3.3 | 54 | 7.5 | 91 | 12.7 | 4 | 0.6 |
| Males | All cases | | 978 | 31 | 3.2 | 102 | 10.7 | 14 | 1.5 | . | . | 46 | 4.8 | 76 | 7.9 | 125 | 13.1 | 4 | 0.4 |
| | Age at baseline | <18 | 43 | 4 | 9.8 | 6 | 14.6 | 1 | 2.4 | . | . | 7 | 17.1 | 6 | 14.6 | 8 | 19.5 | 1 | 2.4 |
| | | 18-19 | 33 | 1 | 3.1 | 8 | 25.0 | 2 | 6.3 | . | . | 2 | 6.3 | 4 | 12.5 | 8 | 25.0 | . | . |
| | | 20-24 | 174 | 12 | 7.0 | 20 | 11.6 | 3 | 1.7 | . | . | 7 | 4.1 | 19 | 11.0 | 18 | 10.5 | 1 | 0.6 |
| | | 25-29 | 274 | 8 | 3.0 | 32 | 12.0 | 3 | 1.1 | . | . | 12 | 4.5 | 20 | 7.5 | 37 | 13.9 | . | . |
| | | 30-34 | 255 | 5 | 2.0 | 25 | 10.2 | 4 | 1.6 | . | . | 11 | 4.5 | 12 | 4.9 | 33 | 13.4 | 1 | 0.4 |
| | | 35+ | 199 | 1 | 0.5 | 11 | 5.6 | 1 | 0.5 | . | . | 7 | 3.5 | 15 | 7.6 | 21 | 10.6 | 1 | 0.5 |
| | Years since diagnosis | 5-9 | 114 | 8 | 7.2 | 23 | 20.7 | 5 | 4.5 | . | . | 7 | 6.3 | 15 | 13.5 | 24 | 21.6 | 1 | 0.9 |
| | | 10-14 | 318 | 7 | 2.3 | 30 | 9.6 | 3 | 1.0 | . | . | 15 | 4.8 | 25 | 8.0 | 34 | 10.9 | 1 | 0.3 |
| | | 15-19 | 320 | 13 | 4.1 | 28 | 8.9 | 5 | 1.6 | . | . | 12 | 3.8 | 22 | 7.0 | 39 | 12.4 | 1 | 0.3 |
| | | 20+ | 226 | 3 | 1.4 | 21 | 9.6 | 1 | 0.5 | . | . | 12 | 5.5 | 14 | 6.4 | 28 | 12.8 | 1 | 0.5 |
| | Age at diagnosis | <1 | 4 | 1 | 25.0 | . | . | . | . | . | . | 1 | 25.0 | 1 | 25.0 | . | . | . | . |
| | | 1-4 | 41 | 5 | 12.5 | 4 | 10.0 | 1 | 2.5 | . | . | 3 | 7.5 | 4 | 10.0 | 6 | 15.0 | . | . |
| | | 5-9 | 173 | 12 | 7.2 | 22 | 13.2 | 1 | 0.6 | . | . | 12 | 7.2 | 13 | 7.8 | 23 | 13.8 | 1 | 0.6 |
| | | 10-14 | 362 | 4 | 1.1 | 44 | 12.4 | 7 | 2.0 | . | . | 18 | 5.1 | 31 | 8.8 | 46 | 13.0 | 1 | 0.3 |
| | | 15-20 | 398 | 9 | 2.3 | 32 | 8.2 | 5 | 1.3 | . | . | 12 | 3.1 | 27 | 6.9 | 50 | 12.8 | 2 | 0.5 |
| Females | All cases | | 953 | 18 | 1.9 | 119 | 12.8 | 19 | 2.0 | 2 | 0.2 | 39 | 4.2 | 80 | 8.6 | 113 | 12.1 | 12 | 1.3 |
| | Age at baseline | <18 | 42 | 2 | 4.8 | 12 | 28.6 | 2 | 4.8 | . | . | 4 | 9.5 | 5 | 11.9 | 5 | 11.9 | 2 | 4.8 |
| | | 18-19 | 33 | 1 | 3.0 | 7 | 21.2 | 1 | 3.0 | . | . | 2 | 6.1 | 4 | 12.1 | 3 | 9.1 | . | . |
| | | 20-24 | 185 | 6 | 3.3 | 36 | 20.0 | 6 | 3.3 | 1 | 0.6 | 12 | 6.7 | 22 | 12.2 | 26 | 14.4 | 5 | 2.8 |
| | | 25-29 | 254 | 5 | 2.0 | 25 | 10.2 | 3 | 1.2 | . | . | 9 | 3.7 | 20 | 8.2 | 25 | 10.2 | 4 | 1.6 |
| | | 30-34 | 262 | 2 | 0.8 | 22 | 8.6 | 4 | 1.6 | 1 | 0.4 | 10 | 3.9 | 16 | 6.3 | 25 | 9.8 | 1 | 0.4 |
| | | 35+ | 177 | 2 | 1.1 | 17 | 9.7 | 3 | 1.7 | . | . | 2 | 1.1 | 13 | 7.4 | 29 | 16.6 | . | . |
| | Years since diagnosis | 5-9 | 100 | 2 | 2.0 | 22 | 22.4 | 3 | 3.1 | . | . | 9 | 9.2 | 17 | 17.3 | 16 | 16.3 | 3 | 3.1 |
| | | 10-14 | 311 | 4 | 1.3 | 33 | 10.7 | 4 | 1.3 | . | . | 11 | 3.6 | 29 | 9.4 | 30 | 9.8 | 6 | 2.0 |
| | | 15-19 | 313 | 7 | 2.3 | 34 | 11.3 | 6 | 2.0 | 1 | 0.3 | 13 | 4.3 | 18 | 6.0 | 32 | 10.6 | 2 | 0.7 |
| | | 20+ | 229 | 5 | 2.2 | 30 | 13.3 | 6 | 2.7 | 1 | 0.4 | 6 | 2.7 | 16 | 7.1 | 35 | 15.6 | 1 | 0.4 |
| | Age at diagnosis | <1 | 4 | . | . | . | . | . | . | . | . | . | . | . | . | 1 | 25.0 | 1 | 25.0 |
| | | 1-4 | 39 | 2 | 5.4 | 12 | 32.4 | 4 | 10.8 | 1 | 2.7 | 4 | 10.8 | 2 | 5.4 | 2 | 5.4 | . | . |
| | | 5-9 | 165 | 6 | 3.7 | 30 | 18.6 | 4 | 2.5 | 1 | 0.6 | 10 | 6.2 | 16 | 9.9 | 21 | 13.0 | 4 | 2.5 |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
N/% reflect those with direct radiation; Patients with TBI not included in other categories

Radiotherapy by body region: All bone

| | | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | |
|--|--|-------|-----------|-------|-----|-------|------|------|-----|-------|---|---------|-----|--------|-----|------|------|-----|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 412 | 7 | 1.7 | 46 | 11.4 | 9 | 2.2 | . | . | 13 | 3.2 | 35 | 8.7 | 48 | 11.9 | 5 | 1.2 |
| | | 15-20 | 333 | 3 | 0.9 | 31 | 9.5 | 2 | 0.6 | . | . | 12 | 3.7 | 27 | 8.3 | 41 | 12.6 | 2 | 0.6 |

Radiotherapy by body region: Ewings

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|------------|-----------|------------|------------|-------------|-----------|------------|----------|------------|-----------|-------------|------------|-------------|------------|-------------|-----------|------------|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 685 | 36 | 5.5 | 167 | 25.4 | 21 | 3.2 | 2 | 0.3 | 72 | 10.9 | 136 | 20.7 | 190 | 28.9 | 15 | 2.3 |
| | Age at baseline | <18 | 54 | 5 | 9.3 | 16 | 29.6 | 1 | 1.9 | . | . | 10 | 18.5 | 11 | 20.4 | 11 | 20.4 | 3 | 5.6 |
| | | 18-19 | 33 | . | . | 12 | 36.4 | 3 | 9.1 | . | . | 4 | 12.1 | 7 | 21.2 | 10 | 30.3 | . | . |
| | | 20-24 | 157 | 15 | 9.9 | 44 | 28.9 | 7 | 4.6 | 1 | 0.7 | 14 | 9.2 | 36 | 23.7 | 40 | 26.3 | 5 | 3.3 |
| | | 25-29 | 193 | 9 | 5.0 | 50 | 27.6 | 2 | 1.1 | . | . | 17 | 9.4 | 36 | 19.9 | 54 | 29.8 | 4 | 2.2 |
| | | 30-34 | 153 | 5 | 3.4 | 30 | 20.7 | 6 | 4.1 | 1 | 0.7 | 19 | 13.1 | 24 | 16.6 | 43 | 29.7 | 2 | 1.4 |
| | | 35+ | 95 | 2 | 2.2 | 15 | 16.1 | 2 | 2.2 | . | . | 8 | 8.6 | 22 | 23.7 | 32 | 34.4 | 1 | 1.1 |
| | Years since diagnosis | 5-9 | 90 | 8 | 9.1 | 37 | 42.0 | 5 | 5.7 | . | . | 13 | 14.8 | 29 | 33.0 | 36 | 40.9 | 4 | 4.5 |
| | | 10-14 | 231 | 8 | 3.6 | 49 | 21.8 | 3 | 1.3 | . | . | 22 | 9.8 | 48 | 21.3 | 53 | 23.6 | 7 | 3.1 |
| | | 15-19 | 214 | 14 | 6.9 | 48 | 23.5 | 8 | 3.9 | 1 | 0.5 | 21 | 10.3 | 35 | 17.2 | 54 | 26.5 | 2 | 1.0 |
| | | 20+ | 150 | 6 | 4.3 | 33 | 23.4 | 5 | 3.5 | 1 | 0.7 | 16 | 11.3 | 24 | 17.0 | 47 | 33.3 | 2 | 1.4 |
| | Age at diagnosis | <1 | 4 | . | . | . | . | . | . | . | . | . | . | . | . | 1 | 25.0 | 1 | 25.0 |
| | | 1-4 | 50 | 5 | 10.6 | 14 | 29.8 | 5 | 10.6 | 1 | 2.1 | 6 | 12.8 | 5 | 10.6 | 8 | 17.0 | . | . |
| | | 5-9 | 170 | 15 | 9.2 | 44 | 27.0 | 3 | 1.8 | 1 | 0.6 | 21 | 12.9 | 29 | 17.8 | 39 | 23.9 | 4 | 2.5 |
| | | 10-14 | 257 | 8 | 3.2 | 65 | 26.3 | 8 | 3.2 | . | . | 26 | 10.5 | 57 | 23.1 | 78 | 31.6 | 6 | 2.4 |
| | | 15-20 | 204 | 8 | 4.1 | 44 | 22.3 | 5 | 2.5 | . | . | 19 | 9.6 | 45 | 22.8 | 64 | 32.5 | 4 | 2.0 |
| Males | All cases | | 353 | 22 | 6.4 | 80 | 23.3 | 8 | 2.3 | . | . | 40 | 11.7 | 65 | 19.0 | 99 | 28.9 | 4 | 1.2 |
| | Age at baseline | <18 | 24 | 3 | 12.5 | 4 | 16.7 | . | . | . | . | 6 | 25.0 | 6 | 25.0 | 6 | 25.0 | 1 | 4.2 |
| | | 18-19 | 17 | . | . | 7 | 41.2 | 2 | 11.8 | . | . | 2 | 11.8 | 3 | 17.6 | 7 | 41.2 | . | . |
| | | 20-24 | 78 | 11 | 14.3 | 17 | 22.1 | 2 | 2.6 | . | . | 6 | 7.8 | 18 | 23.4 | 16 | 20.8 | 1 | 1.3 |
| | | 25-29 | 99 | 5 | 5.3 | 29 | 30.5 | . | . | . | . | 11 | 11.6 | 19 | 20.0 | 32 | 33.7 | . | . |
| | | 30-34 | 83 | 3 | 3.8 | 17 | 21.5 | 3 | 3.8 | . | . | 9 | 11.4 | 8 | 10.1 | 23 | 29.1 | 1 | 1.3 |
| | | 35+ | 52 | . | . | 6 | 11.8 | 1 | 2.0 | . | . | 6 | 11.8 | 11 | 21.6 | 15 | 29.4 | 1 | 2.0 |
| | Years since diagnosis | 5-9 | 48 | 6 | 12.8 | 19 | 40.4 | 3 | 6.4 | . | . | 6 | 12.8 | 15 | 31.9 | 22 | 46.8 | 1 | 2.1 |
| | | 10-14 | 109 | 5 | 4.7 | 25 | 23.6 | 1 | 0.9 | . | . | 13 | 12.3 | 22 | 20.8 | 24 | 22.6 | 1 | 0.9 |
| | | 15-19 | 115 | 10 | 8.8 | 20 | 17.5 | 3 | 2.6 | . | . | 11 | 9.6 | 18 | 15.8 | 31 | 27.2 | 1 | 0.9 |
| | | 20+ | 81 | 1 | 1.3 | 16 | 21.1 | 1 | 1.3 | . | . | 10 | 13.2 | 10 | 13.2 | 22 | 28.9 | 1 | 1.3 |
| | Age at diagnosis | <1 | 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 1-4 | 26 | 4 | 16.0 | 4 | 16.0 | 1 | 4.0 | . | . | 3 | 12.0 | 3 | 12.0 | 6 | 24.0 | . | . |
| | | 5-9 | 84 | 10 | 12.3 | 19 | 23.5 | . | . | . | . | 11 | 13.6 | 13 | 16.0 | 19 | 23.5 | 1 | 1.2 |
| | | 10-14 | 135 | 3 | 2.3 | 34 | 25.6 | 3 | 2.3 | . | . | 17 | 12.8 | 28 | 21.1 | 39 | 29.3 | 1 | 0.8 |
| | | 15-20 | 106 | 5 | 4.9 | 23 | 22.5 | 4 | 3.9 | . | . | 9 | 8.8 | 21 | 20.6 | 35 | 34.3 | 2 | 2.0 |
| Females | All cases | | 332 | 14 | 4.4 | 87 | 27.6 | 13 | 4.1 | 2 | 0.6 | 32 | 10.2 | 71 | 22.5 | 91 | 28.9 | 11 | 3.5 |
| | Age at baseline | <18 | 30 | 2 | 6.7 | 12 | 40.0 | 1 | 3.3 | . | . | 4 | 13.3 | 5 | 16.7 | 5 | 16.7 | 2 | 6.7 |
| | | 18-19 | 16 | . | . | 5 | 31.3 | 1 | 6.3 | . | . | 2 | 12.5 | 4 | 25.0 | 3 | 18.8 | . | . |
| | | 20-24 | 79 | 4 | 5.3 | 27 | 36.0 | 5 | 6.7 | 1 | 1.3 | 8 | 10.7 | 18 | 24.0 | 24 | 32.0 | 4 | 5.3 |
| | | 25-29 | 94 | 4 | 4.7 | 21 | 24.4 | 2 | 2.3 | . | . | 6 | 7.0 | 17 | 19.8 | 22 | 25.6 | 4 | 4.7 |
| | | 30-34 | 70 | 2 | 3.0 | 13 | 19.7 | 3 | 4.5 | 1 | 1.5 | 10 | 15.2 | 16 | 24.2 | 20 | 30.3 | 1 | 1.5 |
| | | 35+ | 43 | 2 | 4.8 | 9 | 21.4 | 1 | 2.4 | . | . | 2 | 4.8 | 11 | 26.2 | 17 | 40.5 | . | . |
| | Years since diagnosis | 5-9 | 42 | 2 | 4.9 | 18 | 43.9 | 2 | 4.9 | . | . | 7 | 17.1 | 14 | 34.1 | 14 | 34.1 | 3 | 7.3 |
| | | 10-14 | 122 | 3 | 2.5 | 24 | 20.2 | 2 | 1.7 | . | . | 9 | 7.6 | 26 | 21.8 | 29 | 24.4 | 6 | 5.0 |
| | | 15-19 | 99 | 4 | 4.4 | 28 | 31.1 | 5 | 5.6 | 1 | 1.1 | 10 | 11.1 | 17 | 18.9 | 23 | 25.6 | 1 | 1.1 |
| | | 20+ | 69 | 5 | 7.7 | 17 | 26.2 | 4 | 6.2 | 1 | 1.5 | 6 | 9.2 | 14 | 21.5 | 25 | 38.5 | 1 | 1.5 |
| | Age at diagnosis | <1 | 2 | . | . | . | . | . | . | . | . | . | . | . | . | 1 | 50.0 | 1 | 50.0 |
| | | 1-4 | 24 | 1 | 4.5 | 10 | 45.5 | 4 | 18.2 | 1 | 4.5 | 3 | 13.6 | 2 | 9.1 | 2 | 9.1 | . | . |
| | | 5-9 | 86 | 5 | 6.1 | 25 | 30.5 | 3 | 3.7 | 1 | 1.2 | 10 | 12.2 | 16 | 19.5 | 20 | 24.4 | 3 | 3.7 |

Radiotherapy by body region: Ewings

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|--|--|-------|-----------|---|-------|----|------|---|-------|---|---------|----|--------|----|------|----|------|---|-----|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| | | 10-14 | 122 | 5 | 4.4 | 31 | 27.2 | 5 | 4.4 | . | . | 9 | 7.9 | 29 | 25.4 | 39 | 34.2 | 5 | 4.4 |
| | | 15-20 | 98 | 3 | 3.2 | 21 | 22.1 | 1 | 1.1 | . | . | 10 | 10.5 | 24 | 25.3 | 29 | 30.5 | 2 | 2.1 |

Radiotherapy by body region: Osteosarcoma

| | | | Brain | | Chest | | Neck | | Spine | | Abdomen | | Pelvis | | Limb | | TBI | | |
|-------------------|------------------------------|-------|-------------|----------|------------|-----------|------------|----------|------------|---|---------|----------|------------|-----------|------------|-----------|------------|---|---|
| | | | All cases | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N | % |
| Both sexes | All cases | | 1149 | 6 | 0.5 | 39 | 3.4 | 6 | 0.5 | . | . | 4 | 0.4 | 13 | 1.1 | 39 | 3.4 | . | . |
| | Age at baseline | <18 | 25 | . | . | 2 | 8.7 | 1 | 4.3 | . | . | 1 | 4.3 | . | . | 2 | 8.7 | . | . |
| | | 18-19 | 27 | . | . | 2 | 7.7 | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 20-24 | 183 | 2 | 1.1 | 8 | 4.4 | 1 | 0.6 | . | . | 2 | 1.1 | 3 | 1.7 | 2 | 1.1 | . | . |
| | | 25-29 | 317 | 2 | 0.6 | 4 | 1.3 | 3 | 1.0 | . | . | 1 | 0.3 | 3 | 1.0 | 7 | 2.2 | . | . |
| | | 30-34 | 337 | 1 | 0.3 | 12 | 3.6 | 1 | 0.3 | . | . | . | . | 3 | 0.9 | 13 | 3.9 | . | . |
| | | 35+ | 260 | 1 | 0.4 | 11 | 4.2 | . | . | . | . | . | . | 4 | 1.5 | 15 | 5.8 | . | . |
| | Years since diagnosis | 5-9 | 118 | 1 | 0.9 | 7 | 6.1 | 2 | 1.7 | . | . | 2 | 1.7 | 2 | 1.7 | 4 | 3.5 | . | . |
| | | 10-14 | 361 | 1 | 0.3 | 8 | 2.2 | 3 | 0.8 | . | . | 1 | 0.3 | 5 | 1.4 | 9 | 2.5 | . | . |
| | | 15-19 | 390 | 3 | 0.8 | 9 | 2.3 | 1 | 0.3 | . | . | 1 | 0.3 | 3 | 0.8 | 13 | 3.4 | . | . |
| | | 20+ | 280 | 1 | 0.4 | 15 | 5.4 | . | . | . | . | . | . | 3 | 1.1 | 13 | 4.7 | . | . |
| | Age at diagnosis | 1-4 | 21 | . | . | 1 | 4.8 | . | . | . | . | 1 | 4.8 | . | . | . | . | . | . |
| | | 5-9 | 151 | 2 | 1.4 | 5 | 3.4 | . | . | . | . | 1 | 0.7 | . | . | 2 | 1.4 | . | . |
| | | 10-14 | 491 | 1 | 0.2 | 18 | 3.7 | 5 | 1.0 | . | . | . | . | 6 | 1.2 | 13 | 2.7 | . | . |
| | | 15-20 | 486 | 3 | 0.6 | 15 | 3.1 | 1 | 0.2 | . | . | 2 | 0.4 | 7 | 1.5 | 24 | 5.0 | . | . |
| Males | All cases | | 577 | 4 | 0.7 | 18 | 3.2 | 5 | 0.9 | . | . | 1 | 0.2 | 7 | 1.2 | 21 | 3.7 | . | . |
| | Age at baseline | <18 | 18 | . | . | 2 | 12.5 | 1 | 6.3 | . | . | 1 | 6.3 | . | . | 2 | 12.5 | . | . |
| | | 18-19 | 12 | . | . | 1 | 9.1 | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 20-24 | 86 | . | . | 2 | 2.4 | . | . | . | . | . | . | . | . | 1 | 1.2 | . | . |
| | | 25-29 | 165 | 2 | 1.2 | 3 | 1.9 | 3 | 1.9 | . | . | . | . | 1 | 0.6 | 4 | 2.5 | . | . |
| | | 30-34 | 158 | 1 | 0.7 | 6 | 3.9 | 1 | 0.7 | . | . | . | . | 3 | 2.0 | 9 | 5.9 | . | . |
| | | 35+ | 138 | 1 | 0.7 | 4 | 2.9 | . | . | . | . | . | . | 3 | 2.2 | 5 | 3.6 | . | . |
| | Years since diagnosis | 5-9 | 64 | 1 | 1.6 | 4 | 6.5 | 2 | 3.2 | . | . | 1 | 1.6 | . | . | 2 | 3.2 | . | . |
| | | 10-14 | 190 | . | . | 4 | 2.2 | 2 | 1.1 | . | . | . | . | 2 | 1.1 | 8 | 4.3 | . | . |
| | | 15-19 | 190 | 2 | 1.1 | 6 | 3.2 | 1 | 0.5 | . | . | . | . | 3 | 1.6 | 6 | 3.2 | . | . |
| | | 20+ | 133 | 1 | 0.8 | 4 | 3.1 | . | . | . | . | . | . | 2 | 1.5 | 5 | 3.8 | . | . |
| | Age at diagnosis | 1-4 | 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 5-9 | 76 | 1 | 1.4 | 2 | 2.7 | . | . | . | . | 1 | 1.4 | . | . | 2 | 2.7 | . | . |
| | | 10-14 | 220 | . | . | 9 | 4.2 | 4 | 1.9 | . | . | . | . | 3 | 1.4 | 6 | 2.8 | . | . |
| | | 15-20 | 270 | 3 | 1.1 | 7 | 2.6 | 1 | 0.4 | . | . | . | . | 4 | 1.5 | 13 | 4.9 | . | . |
| Females | All cases | | 572 | 2 | 0.4 | 21 | 3.7 | 1 | 0.2 | . | . | 3 | 0.5 | 6 | 1.1 | 18 | 3.2 | . | . |
| | Age at baseline | <18 | 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 18-19 | 15 | . | . | 1 | 6.7 | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 20-24 | 97 | 2 | 2.1 | 6 | 6.3 | 1 | 1.0 | . | . | 2 | 2.1 | 3 | 3.1 | 1 | 1.0 | . | . |
| | | 25-29 | 152 | . | . | 1 | 0.7 | . | . | . | . | 1 | 0.7 | 2 | 1.3 | 3 | 2.0 | . | . |
| | | 30-34 | 179 | . | . | 6 | 3.4 | . | . | . | . | . | . | . | . | 4 | 2.3 | . | . |
| | | 35+ | 122 | . | . | 7 | 5.8 | . | . | . | . | . | . | 1 | 0.8 | 10 | 8.3 | . | . |
| | Years since diagnosis | 5-9 | 54 | . | . | 3 | 5.7 | . | . | . | . | 1 | 1.9 | 2 | 3.8 | 2 | 3.8 | . | . |
| | | 10-14 | 171 | 1 | 0.6 | 4 | 2.4 | 1 | 0.6 | . | . | 1 | 0.6 | 3 | 1.8 | 1 | 0.6 | . | . |
| | | 15-19 | 200 | 1 | 0.5 | 3 | 1.5 | . | . | . | . | 1 | 0.5 | . | . | 7 | 3.5 | . | . |
| | | 20+ | 147 | . | . | 11 | 7.5 | . | . | . | . | . | . | 1 | 0.7 | 8 | 5.4 | . | . |
| | Age at diagnosis | 1-4 | 10 | . | . | 1 | 10.0 | . | . | . | . | 1 | 10.0 | . | . | . | . | . | . |
| | | 5-9 | 75 | 1 | 1.3 | 3 | 4.0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | | 10-14 | 271 | 1 | 0.4 | 9 | 3.3 | 1 | 0.4 | . | . | . | . | 3 | 1.1 | 7 | 2.6 | . | . |
| | | 15-20 | 216 | . | . | 8 | 3.8 | . | . | . | . | 2 | 0.9 | 3 | 1.4 | 11 | 5.2 | . | . |

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories