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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table S4. Three-year relative survival of pediatric brain and central nervous system cancer overall and by race/ethnicity, United States, cases diagnosed during 2001–2008 | | | | | | | | | | |
|  | Total N=11,302 | | White, non-Hispanic N=7,506 | | Black, non-Hispanic N=1,378 | | Hispanic N=1,951 | | Other, non-Hispanic N=467 | |
| Characteristic | No. | RS (95% CI) | No. | RS (95% CI) | No. | RS (95% CI) | No. | RS (95% CI) | No. | RS (95% CI) |
| **TOTAL** | 11,302 | 79.1 (78.4–79.9) | 7,506 | 81.3 (80.3–82.1) | 1,378 | **73.3 (70.9–75.6)** | 1,951 | **75.9 (73.9–77.7)** | 467 | **75.5 (71.3–79.1)** |
| **Sex** |  |  |  |  |  |  |  |  |  |  |
| Male | 6,153 | 79.0 (78.0–80.0) | 4,151 | 81.2 (80.0–82.4) | 715 | **71.8 (68.4–75.0)** | 1,048 | **75.4 (72.7–77.9)** | 239 | 78.4 (72.6–83.1) |
| Female | 5,149 | 79.2 (78.1–80.3) | 3,355 | 81.3 (79.9–82.6) | 663 | **75.0 (71.5–78.1)** | 903 | **76.5 (73.6–79.1)** | 228 | **72.4 (66.1–77.8)** |
| **Age (years)** |  |  |  |  |  |  |  |  |  |  |
| 0–4 | 3,687 | 73.6 (72.1–75.0) | 2,289 | 76.2 (74.3–77.9) | 469 | **67.2 (62.8–71.3)** | 772 | **70.6 (67.2–73.7)** | 157 | 69.6 (61.7–76.1) |
| 5–9 | 2,818 | 80.3 (78.8–81.8) | 1,867 | 82.0 (80.2–83.7) | 360 | **73.4 (68.5–77.6)** | 483 | 78.1 (74.1–81.5) | 108 | 85.2 (77.0–90.7) |
| 10–14 | 2,560 | 83.2 (81.7–84.6) | 1,765 | 85.0 (83.2–86.6) | 291 | **76.7 (71.4–81.2)** | 390 | 82.1 (77.9–85.6) | 114 | **76.4 (67.4–83.2)** |
| 15-19 | 2,237 | 82.0 (80.4–83.6) | 1,585 | 83.6 (81.7–85.3) | 258 | 80.5 (75.1–84.9) | 306 | 77.9 (72.8–82.2) | 88 | **72.9 (62.3–81.0)** |
| **US Census region** |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2,545 | 80.5 (78.9–82.0) | 1,864 | 81.6 (79.8–83.3) | 264 | 75.6 (69.9–80.3) | 326 | 77.1 (72.1–81.3) | 91 | 84.7 (75.5–90.6) |
| Midwest | 2,495 | 81.0 (79.4–82.5) | 1,947 | 82.5 (80.7–84.1) | 257 | 77.6 (72.0–82.3) | 226 | **74.9 (68.7–80.0)** | 65 | 72.4 (59.8–81.7) |
| South | 3,332 | 78.0 (76.5–79.4) | 2,195 | 80.7 (79.0–82.3) | 716 | **69.7 (66.2–73.0)** | 360 | 78.7 (74.1–82.6) | 61 | 72.2 (59.1–81.7) |
| West | 2,930 | 77.6 (76.0–79.0) | 1,500 | 80.0 (77.8–81.9) | 141 | 79.6 (71.9–85.4) | 1,039 | **74.8 (72.0–77.3)** | 250 | 73.7 (67.8–78.7) |
| **Economic status by countya** |  |  |  |  |  |  |  |  |  |  |
| Bottom 25% | 1,457 | 76.7 (74.4–78.8) | 794 | 80.4 (77.4–83.0) | 272 | **72.3 (66.5–77.2)** | 334 | **71.7 (66.5–76.2)** | 57 | 75.6 (62.2–84.8) |
| 25%–75% | 6,723 | 79.3 (78.3–80.2) | 4,282 | 81.4 (80.2–82.5) | 908 | **73.5 (70.5–76.3)** | 1,277 | **77.1 (74.7–79.4)** | 256 | **74.7 (68.9–79.6)** |
| Top 25% | 2,806 | 79.5 (77.9–80.9) | 2,152 | 80.9 (79.2–82.5) | 188 | 74.1 (67.2–79.8) | 326 | **74.6 (69.5–79.0)** | 140 | 76.5 (68.5–82.7) |
| **Stage** |  |  |  |  |  |  |  |  |  |  |
| Localized | 8,273 | 83.1 (82.3–83.9) | 5,556 | 85.1 (84.1–86.0) | 1,011 | **76.9 (74.2–79.4)** | 1,361 | **80.9 (78.7–82.9)** | 345 | **78.4 (73.6–82.4)** |
| Regional | 1,371 | 67.8 (65.2–70.2) | 856 | 70.8 (67.6–73.7) | 158 | **59.0 (50.9–66.2)** | 302 | 64.0 (58.3–69.1) | 55 | 67.3 (53.3–78.0) |
| Distant | 808 | 57.4 (53.9–60.7) | 534 | 58.1 (53.8–62.2) | 88 | 53.6 (42.6–63.4) | 145 | 56.0 (47.5–63.6) | 41 | 61.0 (44.5–74.0) |
| Unknown | 850 | 79.3 (76.4–81.9) | 560 | 81.5 (78.1–84.5) | 121 | 76.2 (67.5–82.9) | 143 | 73.5 (65.5–80.0) | 26 | 77.0 (55.7–89.0) |
| **Anatomic site** |  |  |  |  |  |  |  |  |  |  |
| Lobe | 2,348 | 79.7 (78.0–81.3) | 1,579 | 82.1 (80.1–83.9) | 292 | **73.5 (68.0–78.2)** | 372 | 76.4 (71.8–80.4) | 105 | **72.5 (62.8–80.0)** |
| Cerebrum | 915 | 65.2 (62.0–68.2) | 591 | 68.1 (64.2–71.7) | 130 | **55.5 (46.5–63.6)** | 161 | 62.2 (54.2–69.2) | 33 | 66.7 (48.0–80.0) |
| Ventricle | 642 | 77.2 (73.8–80.3) | 411 | 81.6 (77.5–85.1) | 71 | 73.4 (61.5–82.2) | 135 | **69.7 (61.2–76.7)** | 25 | **56.1 (34.8–72.8)** |
| Cerebellum | 2,956 | 85.8 (84.5–87.0) | 1,992 | 87.2 (85.6–88.6) | 317 | 83.5 (78.9–87.1) | 516 | 82.6 (79.1–85.7) | 131 | 83.3 (75.7–88.7) |
|  |  |  |  |  |  |  |  |  |  |  |

Supplementary Table S4 (continued).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Brain stem | 1,438 | 70.9 (68.4–73.2) | 952 | 72.9 (69.9–75.6) | 164 | **65.4 (57.6–72.1)** | 267 | 68.2 (62.3–73.4) | 55 | 65.5 (51.4–76.5) |
| Other brain | 2,083 | 79.5 (77.7–81.2) | 1,342 | 81.3 (79.1–83.3) | 286 | **73.3 (67.7–78.0)** | 374 | 77.9 (73.3–81.8) | 81 | 80.4 (69.9–87.6) |
| Other CNS | 920 | 83.2 (80.6–85.5) | 639 | 85.0 (81.9–87.5) | 118 | 76.5 (67.7–83.2) | 126 | 81.0 (73.0–86.9) | 37 | 81.2 (64.4–90.6) |
| **Histologyb** |  |  |  |  |  |  |  |  |  |  |
| Pilocytic astrocytoma | 3,480 | 97.5 (96.9–98.0) | 2,423 | 98.0 (97.3–98.5) | 409 | 96.0 (93.5–97.6) | 538 | 96.4 (94.4–97.7) | 110 | 98.3 (92.8–99.6) |
| Diffuse astrocytoma | 1,196 | 85.1 (82.9–87.0) | 825 | 86.1 (83.5–88.3) | 142 | 79.1 (71.4–85.0) | 185 | 84.4 (78.3–88.9) | 44 | 88.8 (74.9–95.2) |
| Anaplastic astrocytoma | 355 | 34.7 (29.8–39.7) | 226 | 38.6 (32.2–44.9) | 49 | 28.6 (16.8–41.6) | ~ | 28.0 (17.9–38.9) | ~ | ~ |
| Unique astrocytoma variants | 213 | 83.7 (78.0–88.0) | 132 | 83.4 (75.9–88.8) | 39 | 87.3 (71.9–94.6) | ~ | 81.7 (65.2–90.8) | ~ | ~ |
| Glioblastoma | 541 | 26.9 (23.2–30.7) | 325 | 29.0 (24.1–34.0) | 96 | 17.8 (10.9–26.0) | 87 | 31.1 (21.7–40.9) | 33 | 21.3 (9.4–36.3) |
| Oligodendroglioma | 281 | 94.8 (91.4–96.9) | 200 | 95.6 (91.6–97.7) | 37 | 92.1 (76.9–97.4) | ~ | 94.8 (80.5–98.7) | ~ | ~ |
| Anaplastic Oligodendroglioma | 52 | 59.7 (45.1–71.6) | 33 | 60.7 (42.1–75.0) | ~ | ~ | ~ | ~ | ~ | ~ |
| Oligoastrocytic tumors | 173 | 84.5 (78.2–89.2) | 132 | 85.0 (77.6–90.1) | ~ | ~ | 20 | 85.1 (60.3–95.0) | ~ | ~ |
| Ependymal tumors | 988 | 83.1 (80.6–85.3) | 604 | 87.4 (84.4–89.8) | 127 | 78.2 (69.9–84.4) | 207 | **71.6 (64.9–77.2)** | 50 | 92.1 (80.1–97.0) |
| Glioma malignant, not otherwise specified | 548 | 71.1 (67.1–74.7) | 382 | 74.7 (70.0–78.8) | 65 | 60.1 (47.2–70.9) | 82 | 64.7 (53.3–74.0) | 19 | 63.2 (37.9–80.5) |
| Choroid plexus tumors | 105 | 65.9 (56.0–74.1) | 56 | 71.7 (57.8–81.6) | ~ | ~ | 34 | 70.7 (52.3–83.1) | ~ | ~ |
| Neuronal and mixed neuronal glial tumors | 97 | 82.6 (73.4–88.8) | 64 | 84.5 (73.0–91.4) | 18 | 83.5 (56.7–94.4) | ~ | ~ | ~ | ~ |
| Medulloblastoma | 1,680 | 78.1 (76.0–80.0) | 1,124 | 78.8 (76.3–81.1) | 162 | 79.2 (72.0–84.7) | 312 | 74.4 (69.2–78.9) | 82 | 79.3 (68.8–86.6) |
| Peripheral neuroectodermal tumor | 558 | 54.9 (50.7–58.9) | 340 | 57.7 (52.3–62.8) | 67 | **40.4 (28.7–51.8)** | 122 | 57.4 (48.2–65.7) | 29 | 44.9 (26.6–61.6) |
| Atypical teratoid/rhabdoid tumor | 288 | 31.4 (26.1–36.8) | 178 | 33.8 (27.0–40.8) | 42 | 19.2 (9.0–32.2) | ~ | 34.6 (22.4–47.1) | ~ | ~ |
| Other embryonal tumors | 227 | 72.9 (66.6–78.3) | 144 | 75.9 (68.0–82.1) | 38 | 60.9 (43.5–74.4) | ~ | 75.2 (58.6–85.9) | ~ | ~ |
| Tumors of meninges | 114 | 65.0 (55.5–73.0) | 82 | 61.1 (49.6–70.7) | ~ | ~ | 17 | 70.7 (43.2–86.6) | ~ | ~ |
| Germ cell tumors and cysts | 307 | 86.8 (82.4–90.1) | 175 | 86.4 (80.3–90.7) | 26 | 92.4 (72.5–98.1) | 74 | 85.2 (74.8–91.6) | 32 | 87.5 (70.1–95.1) |
| Unclassified tumors | 69 | 58.1 (45.5–68.7) | 45 | 57.9 (42.2–70.7) | 16 | 68.8 (40.5–85.7) | ~ | ~ | ~ | ~ |
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Supplementary Table S4 (continued).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Abbreviation: CI, confidence interval; CNS, central nervous system; RS, relative survival.  Data were compiled from 34 population-based registries that participate in the Centers for Disease Control and Prevention’s National Program of Cancer Registries, and meet high-quality data criteria. The registries in the Survival Analysis Dataset cover approximately 67% of the US population. For more information see US Cancer Statistics technical notes (http://www.cdc.gov/cancer/npcr/uscs/technical\_notes/stat\_methods/survival.htm). Suppresses any cell with <16 cases. Per National Program of Cancer Registries complementary cell suppression rules: counts for one or more additional cells must be suppressed if a single cell is suppressed. | | | | | | | | | |
| Bold indicates non-overlapping 95% confidence intervals when comparing non-Hispanic white to non-Hispanic black, Hispanic, or other, non-Hispanic. | | | | | | | | | |
| aExcludes 316 missing cases. |  |  |  |  |  |  |  |  |  |
| bExcludes histology categories with <16 cases. | |  |  |  |  |  |  |  |  |