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| **Supplemental Table 1a. Demographic characteristics of childhood cancer cases and controls.** | | | | | | |  |  |  |  |  |  |
|  | | Controls  N=270,673 | Hematopoietic  cancers  N=5,729 | Leukemias  N=5,108 | ALL  N=4,127 | AML  N=740 | Lymphoma  N=621 | Non-Hodgkin's  Lymphoma  N=168 | CNS tumors  N=2,380 | Ependymoma N=286 | Astrocytoma  N=1,001 | Neuroblastoma  N=1,381 |
|  | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| Child's Sex |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Male | 51 | 56 | 54.8 | 55.4 | 51.4 | 65.9 | 63.1 | 55.3 | 56.6 | 54 | 55.8 |
|  | Female | 49 | 44 | 45.2 | 44.6 | 48.6 | 34.1 | 36.9 | 44.7 | 43.4 | 46 | 44.2 |
| Mother's Age | |  |  |  |  |  |  |  |  |  |  |  |
|  | <20 | 10.6 | 9.2 | 9.3 | 9.3 | 10 | 8.2 | 8.3 | 10 | 9.8 | 9.5 | 9.4 |
|  | 20-25 | 24.2 | 22.4 | 22 | 22.2 | 22.2 | 26.2 | 25.6 | 21.9 | 21.7 | 22.2 | 21.3 |
|  | 25-30 | 27.7 | 27.6 | 27.5 | 28.4 | 23.8 | 28.3 | 26.8 | 28 | 25.2 | 28.3 | 28.8 |
|  | 30-35 | 23.3 | 24.1 | 24.1 | 24.1 | 23.4 | 24.2 | 27.4 | 24.3 | 25.5 | 25.2 | 26.6 |
|  | >35 years | 14.3 | 16.7 | 17.1 | 16.1 | 20.7 | 13 | 11.9 | 15.9 | 17.8 | 14.9 | 13.9 |
| Mother's Education (1989+) | | |  |  |  |  |  |  |  |  |  |  |
|  | <8 years | 12.6 | 13.4 | 13.4 | 13.1 | 13.4 | 13.1 | 10 | 9.4 | 8.5 | 8.6 | 7.9 |
|  | 9-11 years | 18.5 | 17.5 | 17.2 | 17.5 | 15.4 | 20.3 | 19.2 | 17.2 | 16.3 | 15 | 15.1 |
|  | 12 years | 28.3 | 29.7 | 29.6 | 29.5 | 31.6 | 30.2 | 31.5 | 27.8 | 29.3 | 29.4 | 29.6 |
|  | 13-16 | 20.3 | 19.2 | 19.5 | 19.4 | 19.6 | 16.7 | 23.1 | 21.2 | 24.4 | 23.1 | 21.5 |
|  | >16 years | 20.3 | 20.3 | 20.3 | 20.5 | 20.1 | 19.7 | 16.2 | 24.4 | 21.5 | 23.8 | 25.9 |
| SES-Index | |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 (Lowest) | 25 | 24.3 | 24 | 23.8 | 24.7 | 26.6 | 21.4 | 22.2 | 21 | 21.8 | 20 |
|  | 2 | 24.3 | 24.8 | 25 | 25.1 | 24.1 | 23.3 | 24.4 | 23.3 | 25.9 | 24 | 24.3 |
|  | 3 | 22.1 | 22.2 | 22.2 | 22.5 | 20.8 | 22.1 | 17.3 | 22.8 | 25.9 | 21.5 | 24.1 |
|  | 4 | 15.8 | 15.9 | 15.9 | 15.8 | 17.7 | 15.8 | 22.6 | 17.4 | 12.9 | 17.1 | 16.8 |
|  | 5 (Highest) | 12.7 | 12.8 | 12.8 | 12.8 | 12.7 | 12.2 | 14.3 | 14.3 | 14.3 | 15.7 | 14.8 |
| Method of Payment for Prenatal Care (1989+) | | | |  |  |  |  |  |  |  |  |  |
|  | Private | 49.9 | 54 | 54.2 | 55 | 50.9 | 52.7 | 59.4 | 57.6 | 60.9 | 59.7 | 58.4 |
|  | Public | 50.1 | 46 | 45.8 | 45 | 49.1 | 47.3 | 40.6 | 42.4 | 39.1 | 40.3 | 41.6 |
| Mother's Race | |  |  |  |  |  |  |  |  |  |  |  |
|  | White Non-Hispanic | 35 | 35.3 | 35.4 | 35.7 | 33.6 | 34.9 | 41.7 | 45.8 | 38.5 | 50.9 | 47.3 |
|  | Hispanic | 45.9 | 49.1 | 49.3 | 49.8 | 46.6 | 47 | 39.9 | 37.7 | 42.3 | 34 | 35 |
|  | Black | 6.7 | 3.6 | 3.4 | 2.8 | 6.2 | 5.2 | 7.7 | 6.7 | 8.4 | 6.2 | 6.2 |
|  | Other | 12.5 | 12 | 11.9 | 11.6 | 13.5 | 12.9 | 10.7 | 9.7 | 10.8 | 8.9 | 11.5 |
| Father's Race | |  |  |  |  |  |  |  |  |  |  |  |
|  | White Non-Hispanic | 30.7 | 33.4 | 33.8 | 35.1 | 28.2 | 29.8 | 35.1 | 39.4 | 31.8 | 44.2 | 40 |
|  | Hispanic | 43.5 | 46.6 | 46.7 | 47.1 | 43.9 | 45.6 | 39.3 | 36.6 | 40.2 | 33.5 | 32.9 |
|  | Black | 6.7 | 4 | 3.8 | 3.2 | 7 | 5.8 | 7.7 | 7.2 | 8 | 6.7 | 6.4 |
|  | Other | 19.1 | 16 | 15.7 | 14.5 | 20.8 | 18.8 | 17.9 | 16.7 | 19.9 | 15.7 | 20.6 |
| Urban/Rural | |  |  |  |  |  |  |  |  |  |  |  |
|  | Metropolitan | 91.1 | 91.4 | 91.4 | 91.5 | 91.4 | 91.3 | 90.5 | 90.5 | 91.3 | 90.4 | 92.4 |
|  | Micropolitan | 4.2 | 4.3 | 4.3 | 4.2 | 4.7 | 4.5 | 5.4 | 4.9 | 4.5 | 5.1 | 3.5 |
|  | Small town/Rural | 4.6 | 4.2 | 4.2 | 4.3 | 3.9 | 4.2 | 4.2 | 4.5 | 4.2 | 4.5 | 4.1 |

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| **Supplemental Table 1b. Demographic characteristics of childhood cancer cases and controls in percentages *cont.*** | | | | | | |  |  |  |  |
|  |  | Retinoblastoma  N=743 | Unilateral  Retinoblastoma  N=513 | Bilateral  Retinoblastoma  N=223 | Wilms tumor  N=1,057 | Hepatoblastoma  N=342 | Soft Tissue  sarcomas N=707 | Germ Cell  tumors N=451 | Yolk Sac  tumors N=181 | Teratomas  N=207 |
|  | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| Child's Sex | |  |  |  |  |  |  |  |  |  |
|  | Male | 55 | 53.2 | 57.8 | 47.2 | 59.8 | 58.3 | 56.8 | 72.9 | 44 |
|  | Female | 45 | 46.8 | 42.2 | 52.8 | 40.2 | 41.7 | 43.2 | 27.1 | 56 |
| Mother's Age | |  |  |  |  |  |  |  |  |  |
|  | <20 | 9.6 | 9.4 | 10.3 | 9.8 | 13.5 | 9.5 | 11.8 | 14.9 | 12.1 |
|  | 20-25 | 23.7 | 25.1 | 21.1 | 20.9 | 15.8 | 21.6 | 24.2 | 21 | 26.1 |
|  | 25-30 | 30.6 | 31.8 | 27.8 | 28 | 25.2 | 29.8 | 24.8 | 25.4 | 25.6 |
|  | 30-35 | 21.9 | 20.5 | 24.2 | 27.9 | 24.6 | 24 | 23.7 | 23.2 | 21.7 |
|  | >35 years | 14.3 | 13.3 | 16.6 | 13.3 | 20.8 | 15 | 15.5 | 15.5 | 14.5 |
| Mother's Education (1989+) | | |  |  |  |  |  |  |  |  |
|  | <8 years | 10.5 | 10.2 | 11.6 | 9.8 | 13.4 | 11.6 | 14.6 | 24.5 | 8.2 |
|  | 9-11 years | 19.5 | 17.7 | 22.7 | 15.4 | 16.9 | 16.4 | 18.1 | 18.5 | 17 |
|  | 12 years | 29.4 | 31.3 | 25.1 | 32.7 | 29 | 29.5 | 29.2 | 23.8 | 34 |
|  | 13-16 | 21.1 | 22.5 | 17.9 | 20.7 | 14.3 | 19.9 | 19.4 | 19.2 | 21.6 |
|  | >16 years | 19.5 | 18.4 | 22.7 | 21.3 | 26.4 | 22.6 | 18.6 | 13.9 | 19.1 |
| SES-Index | |  |  |  |  |  |  |  |  |  |
|  | 1 (Lowest) | 24.1 | 24.2 | 23.3 | 23.2 | 23.8 | 24.8 | 23.3 | 24.3 | 22.2 |
|  | 2 | 24.9 | 23.6 | 28.7 | 25.7 | 18.8 | 23.3 | 26.8 | 26.5 | 30 |
|  | 3 | 21.7 | 23.2 | 17.5 | 20.9 | 22.9 | 23.1 | 20.4 | 17.1 | 21.7 |
|  | 4 | 17.9 | 16.6 | 21.1 | 16.6 | 17.3 | 14.7 | 15.1 | 15.5 | 13.5 |
|  | 5 (Highest) | 11.4 | 12.5 | 9.4 | 13.6 | 17.3 | 14.1 | 14.4 | 16.6 | 12.6 |
| Method of Payment for Prenatal (1989+) | | |  |  |  |  |  |  |  |  |
|  | Private | 51.9 | 53.2 | 50.2 | 55.6 | 52.7 | 55.7 | 51.6 | 48.1 | 53.5 |
|  | Public | 48.1 | 46.8 | 49.8 | 44.4 | 47.3 | 44.3 | 48.4 | 51.9 | 46.5 |
| Mother's Race | |  |  |  |  |  |  |  |  |  |
|  | White Non-Hispanic | 31.4 | 30.8 | 33.2 | 42.8 | 33.4 | 37.6 | 31.7 | 29.8 | 30 |
|  | Hispanic | 47 | 46.8 | 47.1 | 41.4 | 50.1 | 43.1 | 43 | 47.5 | 42.5 |
|  | Black | 8.1 | 8.8 | 6.3 | 7.9 | 3.2 | 6.2 | 5.3 | 1.7 | 7.7 |
|  | Other | 13.6 | 13.6 | 13.5 | 7.9 | 13.2 | 13 | 20 | 21 | 19.8 |
| Father's Race | |  |  |  |  |  |  |  |  |  |
|  | White Non-Hispanic | 29.1 | 28.8 | 30.5 | 37.9 | 29 | 34.7 | 26.8 | 22.7 | 27.1 |
|  | Hispanic | 45.4 | 45.2 | 45.7 | 39.2 | 48.1 | 40.6 | 40.8 | 46.4 | 39.1 |
|  | Black | 6.7 | 7.4 | 4.9 | 8.4 | 3.8 | 7.1 | 4.2 | 1.7 | 6.8 |
|  | Other | 18.8 | 18.5 | 18.8 | 14.5 | 19.1 | 17.7 | 28.2 | 29.3 | 27.1 |
| Urban/Rural | |  |  |  |  |  |  |  |  |  |
|  | Metropolitan | 91.9 | 91.8 | 92.4 | 92.1 | 91.8 | 91.5 | 91.8 | 91.7 | 91.8 |
|  | Micropolitan | 4.6 | 4.9 | 4 | 4.3 | 4.4 | 4.2 | 4.2 | 3.9 | 4.8 |
|  | Small town/Rural | 3.5 | 3.3 | 3.6 | 3.6 | 3.8 | 4.2 | 4 | 4.4 | 3.4 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Supplemental Table 2. Associations of dichloromethane exposure and childhood cancers within a 3km buffer between residences and releasing facilities for births in CA between 1998-2011 (exact birth addresses only)** | | | | | | | |  | Pregnancy | | | First year of life | | | | Cancer | Cases (n) | OR\* | OR\*\* | Cases (n) | OR\* | OR\*\* | | Hematopoietic  cancers | 112 | 1.06 | 1.07 (0.88, 1.29) | 97 | 1.05 | 1.05 (0.85, 1.29) | | Leukemias | 102 | 1.08 | 1.08 (0.88, 1.32) | 91 | 1.09 | 1.09 (0.88, 1.34) | | ALL | 86 | 1.11 | 1.12 (0.89, 1.39) | 80 | 1.10 | 1.11 (0.88, 1.39) | | AML | 13 | 1.00 | 1.01 (0.57, 1.76) | 9 | 1.04 | NA | | Lymphomas | 10 | 0.92 | 0.94 (0.50, 1.77) | 6 | 0.68 | NA | | Non-Hodgkin's Lymphoma | 3 | 1.06 | NA | 2 | 0.74 | NA | | CNS tumors | 46 | 1.13 | 1.16 (0.86, 1.56) | 36 | 1.05 | 1.08 (0.77, 1.52) | | Ependymoma | 7 | 1.52 | NA | 3 | 0.91 | NA | | Astrocytoma | 18 | 1.01 | 1.07 (0.66, 1.72) | 15 | 0.95 | 1.03 (0.61, 1.74) | | Neuroblastoma | 24 | 1.09 | 1.11 (0.74, 1.68) | 13 | 0.97 | 0.95 (0.54, 1.66) | | Retinoblastoma | 15 | 1.20 | 1.23 (0.73, 2.07) | 9 | 1.31 | NA | | Unilateral RB | 8 | 0.95 | NA | 7 | 1.25 | NA | | Bilateral RB | 7 | 1.74 | NA | 2 | 1.60 | NA | | Wilms tumor | 14 | 0.77 | 0.79 (0.46, 1.35) | 10 | 0.65 | 0.68 (0.36, 1.28) | | Hepatoblastoma | 4 | 0.60 | NA | 4 | 0.98 | NA | | Soft tissue sarcomas | 12 | 0.98 | 0.94 (0.53, 1.68) | 6 | 0.70 | NA | | Germ Cell tumors | 7 | 0.99 | NA | 4 | 1.42 | NA | | Yolk Sac tumors | 2 | 0.82 | NA | 1 | 0.65 | NA | | Teratomas | 5 | 1.48 | NA | 3 | 6.98 | NA |   \*Adjusted for matching factor only (birth year)  \*\*Adjusted for birth year, SES, mother's age, mother's education, rural/urban status, and child's sex |