Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.
**eTable 1. Proportion of Garbage Codes in the Cause-of-Death-Reporting System in Inner Mongolia From 2014 to 2019**

| Accuracy Indexes                                      | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|-------------------------------------------------------|-------|-------|-------|-------|-------|-------|
| Proportion of unknown cause of mortality (%)          | 1.19  | 0.84  | 0.55  | 0.57  | 0.55  | 0.67  |
| Proportion of undetermined intent of injury (%)       | 0.10  | 0.11  | 0.11  | 0.12  | 0.15  | 0.13  |
| Proportion of unspecified heart disease (%)           | 1.73  | 1.74  | 1.58  | 1.13  | 1.03  | 1.03  |
| Proportion of neoplasms with unspecified site (%)     | 0.09  | 0.03  | 0.06  | 0.06  | 0.06  | 0.08  |
| Proportion of respiratory failure or liver failure (%)| 0.42  | 0.27  | 0.24  | 0.39  | 0.52  | 0.28  |
| Total (%)                                             | 3.53  | 2.99  | 2.54  | 2.27  | 2.31  | 2.19  |
# eTable 2. Incidence Rates of Childhood Cancer in Inner Mongolia during 2015-2019, Grouped by City and Ethnic Group, per Million Children

| City            | Han        | Mongolian  |
|-----------------|------------|------------|
|                 | Incidence  | 95% CI (Lower) | 95% CI (Upper) | Incidence  | 95% CI (Lower) | 95% CI (Upper) |
| Alxa League     | 212.67     | 108.47     | 316.87     | 150.14     | 0.00         | 320.03         |
| Bayannur        | 128.49     | 107.05     | 149.92     | 60.18      | 0.00         | 143.57         |
| Baotou          | 123.75     | 104.07     | 143.42     | 99.95      | 0.00         | 295.84         |
| Chifeng         | 174.28     | 155.94     | 192.61     | 242.37     | 143.33       | 341.41         |
| Ordos           | 64.46      | 50.83      | 78.08      | 92.83      | 42.37        | 143.29         |
| Hohhot          | 95.21      | 77.73      | 112.69     | 65.00      | 19.96        | 110.03         |
| Hulun Buir      | 101.02     | 81.79      | 120.25     | 66.71      | 20.48        | 112.93         |
| Tongliao        | 234.59     | 192.08     | 277.09     | 202.04     | 172.11       | 231.97         |
| Wuha            | 132.00     | 86.27      | 177.74     | 122.03     | 0.00         | 291.15         |
| Ulanqab         | 131.79     | 108.60     | 154.99     | 314.56     | 0.00         | 670.47         |
| Xilingol League | 134.49     | 101.02     | 167.97     | 65.23      | 20.03        | 110.43         |
| Hinggan League  | 109.93     | 84.36      | 135.49     | 108.88     | 65.32        | 152.44         |

*All results were crude incidence rates.

CI, confidence interval.
### eTable 3. Incidence Rates of Childhood Cancer in Inner Mongolia During 2015-2019, Grouped by GDP Per Capita Level/Grassland Area Share Level/Alcohol Consumption Rate Level/Smoking Rate Level, and Ethnic Group, per Million Children

| Subgroups                        | Incidence (95% CI), per million children |
|----------------------------------|------------------------------------------|
|                                  | Han                                      | Mongolian                               |
| **GDP per capita level**         |                                          |                                         |
| Low (< $9,265)                   | 145.65 (136.15-155.14)                   | 174.82 (152.47-197.18)                 |
| High (> $9,265)                  | 101.79 (92.51-111.08)                    | 80.99 (54.16-107.82)                   |
| **Grassland area share level**   |                                          |                                         |
| Low (< 64.55%)                  | 139.01 (129.82-148.20)                   | 168.06 (146.84-189.27)                 |
| High (> 64.55%)                 | 110.07 (100.29-119.86)                   | 84.72 (53.89-115.56)                   |
| **Alcohol consumption rate level** |                                          |                                         |
| Low (< 30.85%)                  | 104.43 (95.61-113.25)                    | 84.61 (53.82-115.4)                    |
| High (> 30.85%)                 | 148.02 (137.93-158.11)                   | 168.11 (146.89-189.33)                 |
| **Smoking rate level**          |                                          |                                         |
| Low (< 25.47%)                  | 111.54 (101.38-121.7)                    | 94.24 (67.58-120.9)                    |
| High (> 25.47%)                 | 136.93 (127.99-145.87)                   | 175.22 (152.17-198.27)                 |

1. The median GDP per capita of cities in Inner Mongolia was $9,265 in 2019. High-level city group (GDP per capita > $9,265) includes Alxa League, Wuhai, Baotou, Hohhot, Ordos and Xilin Gol League, low-level city group (GDP per capita < $9,265) includes Bayannur, Hulun Buir, Tongliao, Chifeng, Ulanqab, and Hinggan League.
2. The median percentage of grassland area share of cities in Inner Mongolia is 64.55%. High-level city group (grassland area share > 64.55%) includes Ordos, Alxa league, Wuhai, Baotou, Bayannur, and Xilin Gol league, low-level city group (grassland area share < 64.55%) includes Hulun Buir, Hohhot, Tongliao, Chifeng, Ulanqab, and Hinggan league.
3. The median city-level adult alcohol consumption rate in Inner Mongolia was 30.85% in 2018. High-level city group (alcohol consumption rate > 30.85%) includes Chifeng, Tongliao, Xilin Gol league, Hulun Buir, Hinggan league and Ulanqab, low-level city group (alcohol consumption rate < 30.85%) includes Ordos, Baotou, Bayannur, Hohhot, Alxa league and Wuhai.
4. The median city-level adult smoking rate in Inner Mongolia was 25.47% in 2018. High-level city group (smoking rate > 25.47%) includes Ordos, Baotou, Bayannur, Chifeng, Tongliao and Xilin Gol league, low-level city group (smoking rate < 25.47%) includes Hohhot, Alxa league, Wuhai, Hulun Buir, Hinggan league and Ulanqab.

CI, confidence interval; GDP, gross domestic product.
### eTable 4. Five-Year Prevalence Rates of Childhood Cancer of 2018-2020 in Inner Mongolia, Grouped by Age, per Million Children

| Year | Overall* | 0–4         | 5–9         | 10–14        |
|------|-----------|-------------|-------------|--------------|
|      | Crude Rate (95% CI) | 259.59 (240.87-278.32) | 307.98 (269.34-346.62) | 270.41 (238.57-302.25) | 211.34 (183.23-239.46) |
|      | WSR (95% CI) | 263.75 (244.87-282.63) | /           | /            | /             |
|      | Adjusted Rate (95% CI) b | 253.97 (235.44-272.49) | 299.15 (261.07-337.23) | 266.51 (234.90-298.11) | 205.50 (177.77-233.22) |
| 2019 | Crude Rate (95% CI) | 370.87 (348.72-393.01) | 440.54 (394.72-486.35) | 410.55 (371.71-449.4) | 278.19 (246.34-310.04) |
|      | WSR (95% CI) | 377.18 (354.85-399.51) | /           | /            | /             |
|      | Adjusted Rate (95% CI) b | 360.54 (338.70-382.37) | 426.88 (381.78-471.99) | 404.81 (366.24-443.38) | 273.44 (241.87-305.02) |
| 2020 | Crude Rate (95% CI) | 425.49 (402.13-448.84) | 473.45 (426.35-520.55) | 470.77 (430.51-511.03) | 340.91 (305.80-376.02) |
|      | WSR (95% CI) | 428.97 (405.52-452.42) | /           | /            | /             |
|      | Adjusted Rate (95% CI) b | 410.80 (387.86-433.75) | 457.59 (411.29-503.89) | 461.80 (421.92-501.68) | 333.38 (298.65-368.10) |

*The overall consisted of incident cases from Han, Mongolian, and Other ethnic minorities. Other minorities were not included in the ethnicity-specific analysis to obtain a relatively reliable estimation of the rate because of the small sample size of patients.

bThe number of patients diagnosed that died during 2015-2019 was recalculated based on underreporting rate from the two cause-of-death reporting system completeness surveys (7.85% in 2015-2017 and 5.65% in 2018-2020). Adjustments were made to the crude rate.

CI, confidence interval; WSR: Age-standardized rate by world standard population (WHO 2000-2025).
**eTable 5.** Five-Year Prevalence Rates of Childhood Cancer of 2018-2020 in Inner Mongolia, Grouped by Sex and Ethnic Group, per Million Children

| Year | Sex       | Ethnic group |        |        |        |        |        |
|------|-----------|--------------|--------|--------|--------|--------|--------|
|      | Crude Rate (95% CI) | Male | Female | Han    | Mongolian |
| 2018 | Crude Rate (95% CI) | 286.30 (259.15-313.45) | 230.12 (204.55-255.69) | 253.17 (232.91-273.42) | 285.27 (233.14-337.40) |
|      | WSR (95% CI) | 289.17 (261.88-316.46) | 235.76 (209.88-261.64) | 258.26 (237.80-278.72) | 285.81 (233.63-337.99) |
|      | Adjusted Rate (95% CI) | 278.26 (251.49-305.02) | 222.72 (197.56-247.88) | 246.42 (226.43-326.57) | 275.35 (224.13-326.57) |
| 2019 | Crude Rate (95% CI) | 401.57 (369.73-433.4) | 337.81 (307.14-368.48) | 356.99 (333.39-380.59) | 454.21 (386.54-521.88) |
|      | WSR (95% CI) | 405.13 (373.19-437.07) | 346.46 (315.40-377.52) | 365.07 (341.21-388.93) | 453.85 (386.21-521.49) |
|      | Adjusted Rate (95% CI) | 392.37 (360.90-423.83) | 327.66 (297.46-357.86) | 348.87 (325.54-372.19) | 441.08 (374.40-507.77) |
| 2020 | Crude Rate (95% CI) | 452.90 (419.64-486.16) | 395.23 (362.59-427.87) | 404.34 (379.77-428.91) | 568.49 (491.62-645.36) |
|      | WSR (95% CI) | 454.21 (420.9-487.52) | 401.26 (368.37-433.35) | 408.65 (383.95-433.35) | 569.29 (492.37-646.21) |
|      | Adjusted Rate (95% CI) | 440.18 (407.39-472.97) | 382.59 (350.48-414.71) | 395.40 (371.10-419.69) | 549.54 (473.96-625.12) |

*The number of patients diagnosed that died during 2015-2019 was recalculated based on underreporting rate from the two cause-of-death reporting system completeness surveys (7.85% in 2015-2017 and 5.65% in 2018-2020). Adjustments were made to the crude rate.

CI, confidence interval; WSR: Age-standardized rate by world standard population (WHO 2000-2025).
**eTable 6.** Five-Year Prevalence Rates of Childhood Cancer of 2020 in Inner Mongolia, Grouped by Cancer Type, Sex, and age, per Million Children

| Sex       | Diagnosis subtypes  | Overall | 0–4 years | 5–9 years | 10–14 years |
|-----------|---------------------|---------|-----------|-----------|-------------|
|           | No.                 | WSR     | No.       | ASR       | No.         | ASR         | No.        | ASR         |
| Male      | Overall             | 712     | 454.21 (420.9-487.52) | 210 | 481.93 (416.76-547.09) | 308 | 528.99 (469.93-588.05) | 194 | 350.12 (300.86-399.38) |
|           | Leukemia            | 272     | 167.68 (147.44-187.92) | 53  | 121.63 (88.89-154.37)  | 154 | 264.49 (222.72-306.26) | 65  | 117.31 (88.79-145.82)  |
|           | Lymphomas           | 50      | 31.02 (22.31-39.73)   | 10  | 22.95 (8.73-37.17)    | 22  | 37.78 (22.00-53.57)    | 18  | 32.49 (17.48-47.49)    |
|           | CNS tumors          | 77      | 48.67 (37.76-59.58)   | 20  | 45.90 (25.78-66.01)   | 31  | 53.24 (34.50-71.98)    | 26  | 46.92 (28.89-64.96)    |
|           | Sympathetic nervous system tumors | 36 | 24.46 (16.73-32.19) | 18  | 41.31 (22.23-60.39) | 10  | 17.17 (6.53-27.82) | 8  | 14.44 (4.43-24.44) |
|           | Retinoblastoma      | 24      | 17.02 (10.57-23.47)   | 16  | 36.72 (18.73-54.71)   | 7   | 12.02 (3.12-20.93)   | 1   | 1.80 (0.00-5.34)      |
|           | Renal tumors        | 15      | 10.83 (5.69-15.97)    | 11  | 25.24 (10.33-40.16)   | 4   | 6.87 (0.14-13.6)     | 0   | 0                      |
|           | Hepatic tumors      | 14      | 9.66 (4.80-14.52)     | 8   | 18.36 (5.64-31.08)    | 5   | 8.59 (1.06-16.11)    | 1   | 1.80 (0.00-5.34)      |
|           | Bone tumors         | 22      | 13.13 (7.47-18.79)    | 1   | 2.29 (0.00-6.79)      | 5   | 8.59 (1.06-16.11)    | 16  | 28.88 (14.73-43.02)   |
|           | Soft tissue sarcomas| 18      | 11.19 (5.96-16.42)    | 4   | 9.18 (0.18-18.18)     | 10  | 17.17 (6.53-27.82)   | 4   | 7.22 (0.14-14.29)     |
|           | Germ cell and gonadal tumors | 13 | 8.10 (3.65-12.55) | 3   | 6.88 (0.00-14.68)     | 7   | 12.02 (3.12-20.93)   | 3   | 5.41 (0.00-11.54)     |
|           | Epithelial tumors and melanoma | 85 | 55.96 (44.27-67.65) | 33  | 75.73 (49.89-101.57)  | 25  | 42.94 (26.11-59.77)  | 27  | 48.73 (30.35-67.11)   |
|           | Other and Unspecified | 86 | 56.48 (44.73-68.23) | 33  | 75.73 (49.89-101.57)  | 28  | 48.09 (30.28-65.90)  | 25  | 45.12 (27.43-62.80)   |
| Sex      | Diagnosis subtypes                  | Overall | 0–4 years | 5–9 years | 10–14 years |
|----------|-------------------------------------|---------|-----------|-----------|-------------|
|          |                                     | No.     | WSR       | No.       | ASR         | No.     | ASR         | No.     | ASR         |
| Overall  |                                     | 563     | 401.26 (368.37-434.15) | 178       | 463.83 (395.71-531.96) | 217     | 407.16 (353-461.32) | 168     | 330.86 (280.84-380.89) |
| Leukemia |                                     | 191     | 131.18 (112.37-149.99) | 41        | 106.84 (74.14-139.54) | 90      | 168.87 (133.98-203.75) | 60      | 118.16 (88.27-148.06) |
| Lymphomas|                                     | 32      | 23.28 (15.36-31.20)    | 12        | 31.27 (13.58-48.96)    | 11      | 20.64 (8.44-32.84)     | 9       | 17.72 (6.14-29.30)     |
| CNS tumors|                                    | 56      | 37.92 (27.81-48.03)    | 10        | 26.06 (9.91-42.21)     | 29      | 54.41 (34.61-74.22)    | 17      | 33.48 (17.56-49.40)    |
| Leukemia | Sympathetic nervous system tumors    | 39      | 28.65 (19.86-37.44)    | 16        | 41.69 (21.26-62.12)    | 16      | 30.02 (15.31-44.73)    | 7       | 13.79 (3.57-24.00)     |
| Retinoblastoma |                     | 23      | 18.25 (11.23-25.27)    | 15        | 39.09 (19.31-58.87)    | 7       | 13.13 (3.4-22.86)      | 1       | 1.97 (0-5.83)          |
| Renal tumors |                                 | 12      | 9.87 (4.71-15.03)      | 9         | 23.45 (8.13-38.77)     | 1       | 1.88 (0-5.55)          | 2       | 3.94 (0-9.4)           |
| Hepatic tumors |                                 | 8       | 6.57 (2.36-10.78)      | 6         | 15.63 (3.12-28.15)     | 1       | 1.88 (0-5.55)          | 1       | 1.97 (0-5.83)          |
| Bone tumors |                                 | 20      | 13.82 (7.72-19.92)     | 4         | 10.42 (0.21-20.64)     | 3       | 5.63 (0-12.00)         | 13      | 25.6 (11.68-39.52)     |
| Soft tissue sarcomas |                         | 17      | 12.04 (6.34-17.74)     | 5         | 13.03 (1.61-24.45)     | 6       | 11.26 (2.25-20.27)     | 6       | 11.82 (2.36-21.27)     |
| Germ cell and gonadal tumors |                     | 39      | 27.67 (19.03-36.31)    | 11        | 28.66 (11.72-45.6)     | 7       | 13.13 (3.4-22.86)      | 21      | 41.36 (23.67-59.05)    |
| Epithelial tumors and melanoma |                       | 60      | 42.46 (31.76-53.16)    | 18        | 46.90 (25.24-68.57)    | 26      | 48.78 (30.03-67.54)    | 16      | 31.51 (16.07-46.95)    |
| Other and Unspecified |                       | 66      | 49.55 (37.99-61.11)    | 31        | 80.78 (52.34-109.21)   | 20      | 37.53 (21.08-53.97)    | 15      | 29.54 (14.59-44.49)    |
| Overall  |                                     | 1275    | 428.97 (405.52-452.42) | 388       | 473.45 (426.35-520.55) | 525     | 470.77 (430.51-511.03) | 362     | 340.91 (305.80-376.02) |

WSR: World Standard population age-standardized Rates (WHO 2000-2025); ASR: Age-Specific Rates; CNS, central nervous system.

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eFigure 1. Five-Year Prevalence Rates of Childhood Cancer of 2018-2020 in Inner Mongolia, Grouped by City and Ethnic Group, per Million Children\textsuperscript{a}

\textsuperscript{a}All results are crude 5-year prevalence rates, and the error lines in each bar chart show 95\% confidence intervals.
eTable 7. Five-Year Prevalence Rates of Childhood Cancer of 2018-2020 in Inner Mongolia, Grouped by Gdp Per Capita Level/Grassland Area Share Level/Alcohol Consumption Rate Level/Smoking Rate Level, and Ethnic Group, per Million Childrena

| Year | Subgroups                          | 5-year prevalence rate (95% CI) | Han       | Mongolian |
|------|-----------------------------------|---------------------------------|-----------|-----------|
|      |                                   |                                 |           |           |
| 2018 | GDP per capita levelb             |                                 |           |           |
|      | Low (< $9,265)                   | 253.13 (227.41-278.85)          | 282.44 (224.10-340.78) |           |
|      | High (> $9,265)                  | 253.24 (220.37-286.10)          | 295.96 (179.96-411.96) |           |
|      | Grassland area share levelc      |                                 |           |           |
|      | Low (< 64.55%)                   | 204.28 (182.01-226.56)          | 262.56 (209.21-315.92) |           |
|      | High (> 64.55%)                  | 351.16 (309.81-392.50)          | 449.70 (261.82-637.57) |           |
|      | Alcohol consumption rate leveld  |                                 |           |           |
|      | Low (< 30.85%)                   | 283.62 (250.46-316.78)          | 328.10 (187.79-468.41) |           |
|      | High (> 30.85%)                  | 231.29 (205.91-256.67)          | 277.19 (221.16-333.22) |           |
|      | Smoking rate leveled             |                                 |           |           |
|      | Low (< 25.47%)                   | 215.79 (185.58-246.00)          | 244.20 (148.48-339.92) |           |
|      | High (> 25.47%)                  | 276.40 (249.45-303.35)          | 299.25 (237.43-361.07) |           |
| 2019 | GDP per capita levelb             |                                 |           |           |
|      | Low (< $9,265)                   | 393.35 (361.15-425.55)          | 450.67 (377.33-524.00) |           |
|      | High (> $9,265)                  | 304.31 (270.22-338.41)          | 473.48 (298.15-648.82) |           |
|      | Grassland area share levelc      |                                 |           |           |
|      | Low (< 64.55%)                   | 342.58 (313.77-371.39)          | 450.67 (373.34-517.28) |           |
|      | High (> 64.55%)                  | 383.03 (342.08-423.98)          | 512.08 (315.30-708.87) |           |
|      | Alcohol consumption rate leveld  |                                 |           |           |
|      | Low (< 30.85%)                   | 336.30 (301.95-370.65)          | 635.83 (381.53-890.13) |           |
|      | High (> 30.85%)                  | 373.54 (341.16-405.92)          | 434.23 (364.52-503.94) |           |
|      | Smoking rate leveld              |                                 |           |           |
|      | Low (< 25.47%)                   | 322.78 (286.01-359.55)          | 385.62 (245.30-525.94) |           |
|      | High (> 25.47%)                  | 377.29 (346.67-407.91)          | 471.08 (394.15-548.01) |           |
| 2020 | GDP per capita levelb             |                                 |           |           |
|      | Low (< $9,265)                   | 470.75 (435.50-505.99)          | 588.59 (505.14-672.04) |           |
|      | High (> $9,265)                  | 317.83 (284.77-350.89)          | 423.21 (232.95-613.47) |           |
|      | Grassland area share levelc      |                                 |           |           |
|      | Low (< 64.55%)                   | 426.37 (394.54-458.20)          | 577.00 (495.82-685.17) |           |
|      | High (> 64.55%)                  | 367.11 (328.71-405.51)          | 482.28 (246.02-718.53) |           |
|      | Alcohol consumption rate leveld  |                                 |           |           |
|      | Low (< 30.85%)                   | 341.53 (308.02-375.04)          | 420.14 (231.26-609.02) |           |
|      | High (> 30.85%)                  | 456.61 (421.27-491.95)          | 589.18 (505.65-672.71) |           |
|      | Smoking rate leveld              |                                 |           |           |
|      | Low (< 25.47%)                   | 372.70 (333.88-411.52)          | 450.25 (305.2-595.30) |           |
|      | High (> 25.47%)                  | 422.87 (391.23-454.51)          | 602.32 (512.59-692.05) |           |

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All results were crude 5-year prevalence rates.

a The median GDP per capita of cities in Inner Mongolia was $9,265 in 2019. High-level city group (GDP per capita > $9,265) includes Alxa League, Wuhai, Baotou, Hohhot, Ordos and Xilin Gol League, low-level city group (GDP per capita < $9,265) includes Bayannur, Hulun Buir, Tongliao, Chifeng, Ulanqab, and Hinggan League.

b The median percentage of grassland area share of cities in Inner Mongolia is 64.55%. High-level city group (grassland area share > 64.55%) includes Ordos, Alxa league, Wuhai, Baotou, Bayannur, and Xilin Gol league, low-level city group (grassland area share < 64.55%) includes Hulun Buir, Hohhot, Tongliao, Chifeng, Ulanqab, and Hinggan league.

c The median city-level adult alcohol consumption rate in Inner Mongolia was 30.85% in 2018. High-level city group (alcohol consumption rate > 30.85%) includes Chifeng, Tongliao, Xilin Gol league, Hulun Buir, Hinggan league and Ulanqab, low-level city group (alcohol consumption rate < 30.85%) includes Ordos, Baotou, Bayannur, Hohhot, Alxa league and Wuhai.

d The median city-level adult smoking rate in Inner Mongolia was 25.47% in 2018. High-level city group (smoking rate > 25.47%) includes Ordos, Baotou, Bayannur, Chifeng, Tongliao and Xilin Gol league, low-level city group (smoking rate 25.47%) includes Hohhot, Alxa league, Wuhai, Hulun Buir, Hinggan league and Ulanqab.

CI, confidence interval; GDP, gross domestic product.
eTable 8. Survival Rates of Childhood Cancer of 2015-2019 in Inner Mongolia, Grouped by Year and Ethnic Group

| Year | Unadjusted survival rate (%) | Adjusted survival rate (%)<sup>a</sup> |
|------|-----------------------------|-------------------------------------|
|      | Overall<sup>b</sup> | Han | Mongolian | Overall<sup>b</sup> | Han | Mongolian |
| 5-year |                    |      |          |                    |      |          |
| 2015 | 70.59 (120/170) | 73.19 (101/138) | 61 (14/23) | 67.65 (115/170) | 71.01 (98/138) | 61 (14/23) |
| 3-year |                    |      |          |                    |      |          |
| 2015 | 72.94 (124/170) | 74.64 (103/138) | 65 (15/23) | 70.00 (119/170) | 72.46 (100/138) | 65 (15/23) |
| 2016 | 63.90 (177/277) | 63.35 (140/221) | 68 (27/40) | 61.10 (170/277) | 60.18 (133/221) | 65 (26/40) |
| 2017 | 64.72 (310/479) | 63.36 (249/393) | 73 (59/81) | 62.00 (297/479) | 60.56 (238/393) | 70 (57/81) |
| Combined (95% CI)<sup>c</sup> | 66.77 (61.62-71.92) | 66.76 (59.75-73.78) | 70.32 (62.88-77.76) | 63.96 (59.12-68.80) | 64.05 (56.53-71.58) | 68.17 (60.57-75.76) |
| 1-year |                    |      |          |                    |      |          |
| 2015 | 80.59 (137/170) | 81.16 (112/138) | 78 (18/23) | 78.82 (134/170) | 79.71 (110/138) | 78 (18/23) |
| 2016 | 72.56 (201/277) | 72.40 (160/221) | 78 (31/40) | 70.40 (195/277) | 70.14 (155/221) | 75 (30/40) |
| 2017 | 70.15 (336/479) | 69.47 (273/393) | 74 (60/81) | 67.64 (324/479) | 66.92 (263/393) | 72 (58/81) |
| 2018 | 75.25 (307/408) | 74.40 (250/336) | 79 (53/67) | 73.77 (301/408) | 72.92 (245/336) | 78 (52/67) |
| 2019 | 64.62 (221/342) | 63.18 (175/277) | 69 (41/59) | 62.57 (214/342) | 61.01 (169/277) | 68 (40/59) |
| Combined (95% CI)<sup>c</sup> | 72.52 (67.51-77.53) | 72.00 (66.43-77.57) | 75.51 (70.40-80.63) | 70.52 (65.30-75.73) | 70.01 (64.12-75.89) | 73.68 (68.45-78.91) |

<sup>a</sup>The number of patients diagnosed that died during 2015-2019 was recalculated based on underreporting rate from the two cause-of-death reporting system completeness surveys (7.85% in 2015-2017 and 5.65% in 2018-2020).
<sup>b</sup>The overall consisted of incident cases from Han, Mongolian, and Other ethnic minorities. Other minorities were not included in the ethnicity-specific analysis to obtain a relatively reliable estimation of the rate because of the small sample size of patients.
<sup>c</sup>Survival rates were meta-combined using a random-effects model.
CI, confidence interval.
**eTable 9. Medical Costs for Childhood Cancer Patients During the First Year and First 3 Years After Diagnosis in Inner Mongolia, 2015-2019, Grouped by City and Ethnic Group**

| City            | Cost, median (IQR), $a | Cost, median (IQR), $a |
|-----------------|------------------------|------------------------|
|                 | Han 1 y post-diagnosis | 3 y post-diagnosis     |
|                 | Han 1 y post-diagnosis | 3 y post-diagnosis     |
|                 | Mongolian 1 y post-diagnosis | 3 y post-diagnosis     |
| Alxa League     | 3,084 (1,366-8,869)    | 4,796 (1,457-20,922)   |
|                 | 19,816 (19,350-24,026) | 24,651 (31,767-39,976) |
| Bayannur        | 1,880 (1,007-12,423)   | 2,894 (1,060-17,194)   |
|                 | 10,894 (8,234-13,553)  | 48,926 (21,439-56,413) |
| Baotoub        | 6,434 (1,951-19,097)   | 13,097 (1,378-28,759)  |
|                 | 47,770 (47,770-47,770) | 48,126 (18,126-48,126) |
| Chifeng         | 5,607 (1,142-17,065)   | 6,624 (3,218-24,509)   |
|                 | 1,485 (805-16,669)     | 2,252 (2,086-25,766)   |
| Ordos           | 3,765 (2,538-16,406)   | 5,323 (8,586-23,936)   |
|                 | 2,586 (1,029-7,614)    | 5,173 (1,029-7,984)    |
| Hohhot          | 3,100 (1,075-9,499)    | 3,825 (1,084-12,008)   |
|                 | 1,821 (1,353-2,388)    | 1,821 (8,353-6,227)    |
| Hulun Buir      | 2,920 (921-9,282)      | 3,514 (1,065-13,986)   |
|                 | 1,160 (893-5,712)      | 1,160 (893-5,989)      |
| Tongliao        | 1,854 (746-9,538)      | 2,457 (160-16,424)     |
|                 | 1,588 (789-7,670)      | 1,861 (144-10,563)     |
| Wuhai           | 7,234 (2,517-15,948)   | 11,378 (3,517-32,466)  |
|                 | 20,899 (17,363-24,434) | 22,092 (29,152-25,031) |
| Ulanqab         | 5,081 (1,218-14,762)   | 6,962 (1,308-20,769)   |
|                 | 2,280 (1,433-24,409)   | 2,280 (3,433-24,409)   |
| Xilingol League | 4,165 (1,448-13,098)   | 6,505 (6,038-15,366)   |
|                 | 2,506 (2,024-6,104)    | 7,707 (8,568-12,044)   |
| Hinggan League  | 10,042 (2,094-18,972)  | 15,052 (7,614-29,373)  |
|                 | 4,988 (1,529-20,638)   | 7,098 (2,675-22,964)   |

*aCosts are discounted based on the Consumer Price Index; the RMB-to-USD exchange rate is based on the July 1, 2019, exchange rate (1.00 USD = 6.87 RMB).

bDue to small population size of Baotou, only one Mongolian case occurred during 2015-2019, resulting in its median costs were equal to the quartile.

IQR, interquartile range.
**eTable 10. Medical Costs for Childhood Cancer Patients During the First Year and First 3 Years After Diagnosis in Inner Mongolia, 2015-2019, Grouped by GDP Per Capita Level/Grassland Area Share Level/Alcohol Consumption Rate Level/Smoking Rate Level, and Ethnic Group**

| Subgroups                          | Cost, median (IQR), $a | 1 y post-diagnosis | 1 y post-diagnosis | 1 y post-diagnosis | 1 y post-diagnosis |
|------------------------------------|------------------------|--------------------|--------------------|--------------------|--------------------|
| **GDP per capita level**           |                        |                    |                    |                    |                    |
| Low (< $9,265)                     | 3,857 (1,063-15,432)   | 5,004 (1,155-22,155) | 1,786 (838-9,937)  | 2,362 (935-13,115) |
| High (> $9,265)                    | 4,424 (1,667-15,422)   | 6,755 (1,833-23,217) | 2,630 (1,520-14,268) | 5,173 (1,821-17,548) |
| **Grassland area share level**     |                        |                    |                    |                    |                    |
| Low (< 64.55%)                     | 3,879 (1,073-15,360)   | 5,194 (1,149-21,750) | 1,712 (842-9,476)  | 2,252 (940-13,058) |
| High (> 64.55%)                    | 4,077 (1,408-15,518)   | 6,435 (1,616-23,929) | 5,173 (2,383-15,373) | 10,451 (2,538-24,651) |
| **Alcohol consumption rate level** |                        |                    |                    |                    |                    |
| Low (< 30.85%)                     | 3,797 (1,288-14,485)   | 5,316 (1,476-22,459) | 5,173 (1,629-15,803) | 7,614 (1,629-24,651) |
| High (> 30.85%)                    | 4,378 (1,083-15,556)   | 5,541 (1,207-22,475) | 1,792 (842-9,530)  | 2,557 (940-13,058) |
| **Smoking rate level**             |                        |                    |                    |                    |                    |
| Low (< 25.47%)                     | 3,864 (1,246-13,430)   | 5,310 (1,371-20,532) | 3,871 (1,315-19,116) | 4,988 (1,382-22,369) |
| High (> 25.47%)                    | 4,077 (1,153-16,090)   | 5,562 (1,273-23,454) | 1,812 (836-9,011)  | 2,516 (924-13,098) |

*Costs are discounted based on the Consumer Price Index; the RMB-to-USD exchange rate is based on the July 1, 2019, exchange rate (1.00 USD = 6.87 RMB)

bThe median GDP per capita of cities in Inner Mongolia was $9,265 in 2019. High-level city group (GDP per capita>$9,265) includes Alxa League, Wuhai, Baotou, Hohhot, Ordos and Xilin Gol League, low-level city group (GDP per capita<$9,265) includes Bayannur, Hulun Buir, Tongliao, Chifeng, Ulanqab, and Hinggan League.

The median percentage of grassland area share of cities in Inner Mongolia is 64.55%. High-level city group (grassland area share >64.55%) includes Ordos, Alxa league, Wuhai, Baotou, Bayannur, and Xilin Gol league, low-level city group (grassland area share <64.55%) includes Hulun Buir, Hohhot, Tongliao, Chifeng, Ulanqab, and Hinggan league.

dThe median city-level adult alcohol consumption rate in Inner Mongolia was 30.85% in 2018. High-level city group (alcohol consumption rate >30.85%) includes Chifeng, Tongliao, Xilin Gol league, Hulun Buir, Hinggan league and Ulanqab, low-level city group (alcohol consumption rate <30.85%) includes Ordos, Baotou, Bayannur, Hohhot, Alxa league and Wuhai.

eThe median city-level adult smoking rate in Inner Mongolia was 25.47% in 2018. High-level city group (smoking rate >25.47%) includes Ordos, Baotou, Bayannur, Chifeng, Tongliao and Xilin Gol league, low-level city group (smoking rate <25.47%) includes Hohhot, Alxa league, Wuhai, Hulun Buir, Hinggan league and Ulanqab.

IQR, interquartile range.
eFigure 2. Hospital Flow of Patients With Childhood Cancer During Cancer Treatment Course in Inner Mongolia, 2015-2019, Grouped by GDP Per Capita Level and Ethnic Group

The solid black line shows the number of patients who visited the corresponding number of hospitals during the entire course of cancer treatment.

*The median GDP per capita of cities in Inner Mongolia was $9,265 in 2019. High-level city group (GDP per capita>$9,265) includes Alxa League, Wuhai, Baotou, Hohhot, Ordos and Xilin Gol League, low-level city group (GDP per capita<$9,265) includes Bayannur, Hulun Buir, Tongliao, Chifeng, Ulanqab, and Hinggan League.

(A) Han patients in high-level city group; (B) Mongolian patients in high-level city group; (C) Han patients in low-level city group; (D) Mongolian patients in low-level city group.

GDP, gross domestic product.