eAppendix 1. NRQ administration by study center, MOBI-Kids, France, Germany, Israel, Italy, Japan, and Spain.

| Country | Method of NRQ Administration |
| :--- | :--- |
| France $\quad$For cases, the agreement or refusal (including the NRQ questionnaire) was generally obtained directly (face-to-face) by the medical team or <br> interviewer. For controls, if the agreement or refusal (including the NRQ questionnaire) can be obtained by the medical team (rare), it was <br> generally obtained by phone or by mail (including a reply-coupon and a postage paid envelope). |  |
| GermanyThe procedure of administering the NRQ is identical for cases and hospital-based controls. The NRQ is part of the invitation package which is <br> given to the potential participants by the doctors in the treating hospital. Non-participants then send the NRQ back to the national coordinating <br> center in Munich (LMU) via mail or do not respond at all. Data protection policies prohibit that doctors pass any names or contact details of non- <br> participants to LMU. Thus, there is no other way to approach non-participants. |  |
| Israel $\quad$NRQs were administered over the phone by research assistants who were involved in the project. Cases and controls were approached in a similar <br> manner and contacted during different days and hour of the day. |  |
| Italy $\quad$NRQs were administered when the study subject or his/her parents refused participation but accepted to answer the NRQ. Mostly MOBI-Kids <br> interviewers; occasionally and only for cases, when the first contact was with the physician in charge of the patient, the physician administered the <br> NRQ. Over the phone for controls, mostly in person for cases. In a couple of circumstances, for very ill pediatric cases, the physicians <br> recommended not to contact parents and the NRQs were not proposed. |  |
| Japan $\quad$The NRQ for patients was provided by the neuroradiologist/doctor who presented the study with a stamped envelope and then the non-participant <br> mailed it back. The same method was used for cases and controls. |  |
| Spain $\quad$In the majority of subjects, interviewers administered the NRQ, both in person and over the phone. The same method was used for cases and <br> controls. NRQs were answered by the subject, mother or father. |  |

NRQ indicates non-respondent questionnaire.
eAppendix 2. Hypothetical scenarios of ever regular cellular telephone use among non-participants based on patterns of use reported among

|  |  | Observed phone use \% |  | Assumed phone use (basis for assumption) \% |  | Assumed phone use in target population \% | Selection probability |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Interviewed | Refusal with NRQ | Refusal without NRQ | Other nonparticipants |  |  |  |
| Scenarios |  | $\mathrm{P}_{1}$ | $\mathrm{P}_{2}$ | $\mathrm{P}_{3}$ | $\mathrm{P}_{4}$ | $\mathrm{P}_{1-4}$ | $\mathrm{S}_{1}$ | $\mathrm{S}_{0}$ |
| Controls | Fraction of subjects in each category $\mathrm{W}_{1}-\mathrm{W}_{4}$ | 0.54 | 0.17 | 0.10 | 0.19 | 1.00 |  |  |
| R | Reference | 85 | $85\left(\mathrm{P}_{1}\right)$ | $85\left(\mathrm{P}_{1}\right)$ | $85\left(\mathrm{P}_{1}\right)$ | 85 | 0.54 | 0.54 |
| A | NRQ applies to refusers with NRQ, "unbiased" use in other nonparticipants | 85 | 82 | $84\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | $84\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | 84 | 0.54 | 0.52 |
| B | NRQ applies to all refusers, "unbiased" use in other nonparticipants | 85 | 82 | $82\left(\mathrm{P}_{2}\right)$ | $84\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-3}\right)\right)$ | 84 | 0.55 | 0.51 |
| C | NRQ applies to all nonparticipants | 85 | 82 | $82\left(\mathrm{P}_{2}\right)$ | $82\left(\mathrm{P}_{2}\right)$ | 84 | 0.55 | 0.49 |
| D | NRQ applies to refusers with NRQ, $10 \%$ less use in other nonparticipants | 85 | 82 | $77\left(0.9 * \mathrm{P}_{1}\right)$ | $77\left(0.9 * \mathrm{P}_{1}\right)$ | 82 | 0.56 | 0.45 |
| E | NRQ applies to refusers with NRQ, $10 \%$ more use in other nonparticipants | 85 | 82 | $94\left(1.1 * \mathrm{P}_{1}\right)$ | $94\left(1.1 * \mathrm{P}_{1}\right)$ | 87 | 0.53 | 0.62 |
| Cases | Fraction of subjects in each category $\mathrm{W}_{1}-\mathrm{W}_{4}$ | 0.72 | 0.08 | 0.05 | 0.15 | 1.00 |  |  |
| r | Reference | 83 | $83\left(\mathrm{P}_{1}\right)$ | $83\left(\mathrm{P}_{1}\right)$ | $83\left(\mathrm{P}_{1}\right)$ | 83 | 0.72 | 0.72 |
| a | NRQ applies to refusers with NRQ, "unbiased" use in other nonparticipants | 83 | 80 | $83\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | $83\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | 83 | 0.72 | 0.71 |
| b | NRQ applies to all refusers, "unbiased" use in other nonparticipants | 83 | 80 | $80\left(\mathrm{P}_{2}\right)$ | $83\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-3}\right)\right)$ | 83 | 0.72 | 0.70 |
| c | NRQ applies to all nonparticipants | 83 | 80 | $80\left(\mathrm{P}_{2}\right)$ | $80\left(\mathrm{P}_{2}\right)$ | 82 | 0.73 | 0.69 |
| d | NRQ applies to refusers with NRQ, $10 \%$ less use in other nonparticipants | 83 | 80 | $75\left(0.9 * \mathrm{P}_{1}\right)$ | $75\left(0.9 * \mathrm{P}_{1}\right)$ | 81 | 0.74 | 0.65 |
| e | NRQ applies to refusers with NRQ, $10 \%$ more use in other nonparticipants | 83 | 80 | $91\left(1.1 * \mathrm{P}_{1}\right)$ | $91\left(1.1 * \mathrm{P}_{1}\right)$ | 84 | 0.71 | 0.79 |

interviewed and NRQ respondents, MOBI-Kids.
Note: $\mathrm{P}_{1}=$ cellular telephone use prevalence among all interviewed subjects ( 14 countries); $\mathrm{P}_{2}=$ cellular telephone use prevalence among refusers who responded to the $\mathrm{NRQ}=0.96 * \mathrm{P}_{1}$ (Note: 0.96 = age-adjusted ratio of phone use $\%$ among NRQ:interviewed participants for cases and controls combined). Data from included study centers with NRQ data was applied to all centers; P $=$ cellular telephone use prevalence among refusers who did not respond to the NRQ; $\mathrm{P}_{4}=$ cellular telephone use prevalence among other non-participants (i.e. those who were untraceable,
medical refusal, other); $\mathrm{S}_{1}=$ probability of selection/participation among cellular telephone users $=\left(\mathrm{W}_{1} * \mathrm{P}_{1}\right) / \mathrm{P}_{1-4}$ (Note: $\mathrm{P}_{1-4}=$ weighted average of phone use $\%$ across all categories of observed and assumed phone use); $\mathrm{S}_{0}=$ probability of selection/participation among cellular telephone non-users $=\left(\mathrm{W}_{1} *\left(1-\mathrm{P}_{1}\right)\right) /\left(1-\mathrm{P}_{1-4}\right) ; \mathrm{W}_{1}-\mathrm{W}_{4}=$ proportion of subjects in each response category for all study centers combined from Table 1 ; from eFigure 1 the proportion of refusers with NRQ among centers that used the NRQ $\left(W_{2}\right) ; m_{w}=$ weighted mean. NRQ indicates non-respondent questionnaire.
eAppendix 3. Hypothetical scenarios of time since start of use of 5+ years among non-participants based on patterns of use reported among

|  |  | Observed phone use \% |  | Assumed phone use (basis for assumption) \% |  | Assumed phone use in target population \% | Selection probability |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Interviewed | Refusal with NRQ | Refusal without NRQ | Other nonparticipants |  |  |  |
| Scenarios |  | $\mathrm{P}_{1}$ | $\mathrm{P}_{2}$ | $\mathrm{P}_{3}$ | $\mathrm{P}_{4}$ | $\mathrm{P}_{1-4}$ | $\mathrm{S}_{1}$ | $\mathrm{S}_{0}$ |
| Controls | Fraction of subjects in each category $\mathrm{W}_{1}-\mathrm{W}_{4}$ | 0.54 | 0.17 | 0.10 | 0.19 | 1.00 |  |  |
| R | Reference | 54 | $54\left(\mathrm{P}_{1}\right)$ | $54\left(\mathrm{P}_{1}\right)$ | $54\left(\mathrm{P}_{1}\right)$ | 54 | 0.54 | 0.54 |
| A | NRQ applies to refusers with NRQ, "unbiased" use in other nonparticipants | 54 | 44 | $52\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | $52\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | 52 | 0.57 | 0.51 |
| B | NRQ applies to all refusers, "unbiased" use in other nonparticipants | 54 | 44 | $44\left(\mathrm{P}_{2}\right)$ | $51\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-3}\right)\right)$ | 51 | 0.58 | 0.50 |
| C | NRQ applies to all nonparticipants | 54 | 44 | $44\left(\mathrm{P}_{2}\right)$ | $44\left(\mathrm{P}_{2}\right)$ | 49 | 0.59 | 0.49 |
| D | NRQ applies to refusers with NRQ, $30 \%$ less use in other nonparticipants | 54 | 44 | $38\left(0.7 * \mathrm{P}_{1}\right)$ | $38\left(0.7 * \mathrm{P}_{1}\right)$ | 48 | 0.61 | 0.47 |
| E | NRQ applies to refusers with NRQ, $10 \%$ more use in other nonparticipants | 54 | 44 | $59\left(1.1 * \mathrm{P}_{1}\right)$ | $59\left(1.1 * \mathrm{P}_{1}\right)$ | 54 | 0.54 | 0.54 |
| Cases | Fraction of subjects in each category $\mathrm{W}_{1}-\mathrm{W}_{4}$ | 0.72 | 0.08 | 0.05 | 0.15 | 1.00 |  |  |
| r | Reference | 51 | $51\left(\mathrm{P}_{1}\right)$ | $51\left(\mathrm{P}_{1}\right)$ | $51\left(\mathrm{P}_{1}\right)$ | 51 | 0.72 | 0.72 |
| a | NRQ applies to refusers with NRQ, "unbiased" use in other nonparticipants | 51 | 42 | $50\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | $50\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-2}\right)\right)$ | 50 | 0.73 | 0.71 |
| b | NRQ applies to all refusers, "unbiased" use in other nonparticipants | 51 | 42 | $42\left(\mathrm{P}_{2}\right)$ | $50\left(\mathrm{~m}_{\mathrm{w}}\left(\mathrm{P}_{1-3}\right)\right)$ | 50 | 0.74 | 0.70 |
| c | NRQ applies to all nonparticipants | 51 | 42 | $42\left(\mathrm{P}_{2}\right)$ | $42\left(\mathrm{P}_{2}\right)$ | 48 | 0.76 | 0.68 |
| d | NRQ applies to refusers with NRQ, $30 \%$ less use in other nonparticipants | 51 | 42 | 36 (0.7* $\mathrm{P}_{1}$ ) | $36\left(0.7 * \mathrm{P}_{1}\right)$ | 47 | 0.78 | 0.67 |
| e | NRQ applies to refusers with NRQ, $10 \%$ more use in other nonparticipants | 51 | 42 | $56\left(1.1 * \mathrm{P}_{1}\right)$ | $56\left(1.1 * \mathrm{P}_{1}\right)$ | 51 | 0.72 | 0.72 |

interviewed and NRQ respondents, MOBI-Kids.
Note: $P_{1}=$ prevalence of time since start of use $5+$ years among all interviewed subjects ( 14 countries); $P_{2}=$ prevalence of time since start of use $5+$ years among refusers who responded to the NRQ $=0.82 * P_{1}$ (Note: $0.82=$ age-adjusted ratio of time since start of use $5+$ years $\%$ among NRQ:interviewed participants for cases and controls combined). Data from included study centers with NRQ data was applied to all centers; $P_{3}=$ prevalence of time since start of use $5+$ years among refusers who did not respond to the NRQ; $P_{4}=$ prevalence of time since start of use $5+$ years
among other non-participants (i.e. those who were untraceable, medical refusal, other); $\mathrm{S}_{1}=$ probability of selection/participation among time since start of use of $5+$ years $=\left(\mathrm{W}_{1} * \mathrm{P}_{1}\right) / \mathrm{P}_{1-4}\left(\mathrm{Note}^{2}\right.$ $P_{1-4}=$ weighted average of phone use $\%$ across all categories of observed and assumed phone use); $\mathrm{S}_{0}=$ probability of selection/participation among time since start of use of $<5$ years $=$ $\left(\mathrm{W}_{1} *\left(1-\mathrm{P}_{1}\right)\right) /\left(1-\mathrm{P}_{1-4}\right) ; \mathrm{W}_{1}-\mathrm{W}_{4}=$ proportion of subjects in each response category for all study centers combined from Table 1 ; from eFigure 1 the proportion of refusers with NRQ among centers that used the NRQ $\left(\mathrm{W}_{2}\right) ; \mathrm{m}_{\mathrm{w}}=$ weighted mean. Where a range was reported (for year of start of use) the mid-point was used. NRQ indicates non-respondent questionnaire.
eAppendix 4. Distribution of demographic characteristics of interviewed participants and NRQ respondents, MOBI-Kids, France, Germany, Israel, Italy, Japan, and Spain.

|  | Controls |  | Cases |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Interviewed $\mathrm{n}(\%)$ | $\begin{aligned} & \text { NRQ } \\ & \mathrm{n}(\%) \end{aligned}$ | Interviewed $\mathrm{n}(\%)$ | $\begin{aligned} & \text { NRQ } \\ & \mathrm{n}(\%) \end{aligned}$ |
| Sex |  |  |  |  |
| Male | 829 (55) | 280 (56) | 377 (55) | 50 (65) |
| Female | 672 (45) | 217 (43) | 306 (45) | 24 (31) |
| Missing | 0 (0) | 1 (0) | 0 (0) | 3 (4) |
| Total | 1,501 (100) | 498 (100) | 683 (100) | 77 (100) |
| Age Group (Years) |  |  |  |  |
| 10-14 | 519 (35) | 138 (28) | 256 (37) | 26 (34) |
| 15-19 | 532 (35) | 165 (33) | 230 (34) | 23 (30) |
| 20-24 | 442 (29) | 185 (37) | 197 (29) | 22 (29) |
| Missing | 8 (1) | 10 (0) | 0 (0) | 6 (8) |
| Total | 1,501 (100) | 498 (100) | 683 (100) | 77 (100) |
| Maternal Education |  |  |  |  |
| High school or less | 546 (36) | 208 (42) | 325 (48) | 29 (38) |
| Medium level technical/professional school or university/post-graduate | 776 (52) | 205 (41) | 325 (48) | 30 (39) |
| Other | 8 (1) | 24 (5) | 1 (0) | 1 (1) |
| Missing | 171 (11) | 61 (12) | 32 (5) | 17 (22) |
| Total | 1,501 (100) | 498 (100) | 683 (100) | 77 (100) |
| Country |  |  |  |  |
| France | 186 (12) | 83 (17) | 102 (15) | 13 (17) |
| Germany | 135 (9) | 35 (7) | 84 (12) | 25 (32) |
| Israel | 192 (13) | 96 (19) | 99 (15) | 12 (16) |
| Italy | 342 (23) | 103 (21) | 160 (23) | 13 (17) |
| Japan | 224 (15) | 34 (7) | 30 (4) | 3 (4) |
| Spain | 422 (28) | 147 (29) | 208 (31) | 11 (14) |
| Total | 1,501 (100) | 498 (100) | 683 (100) | 77 (100) |

Respondent

| Index | $1,041(69)$ | $185(37)$ | $379(55)$ | $16(21)$ |
| :--- | :---: | :---: | :---: | :---: |
| Index + parent(s) | $383(26)$ | - | $213(31)$ | - |
| Parent(s) | $53(4)$ | $180(36)$ | $75(11)$ | $22(29)$ |
| Other | $7(0)$ | $12(2)$ | $12(2)$ | $15(19)$ |
| Missing | $17(1)$ | $121(24)$ | $4(1)$ | $24(31)$ |
| Total | $1,501(100)$ | $498(100)$ | $683(100)$ | $77(100)$ |

For respondent type, the category index + parent(s) was not captured as part of the NRQ. NRQ indicates nonrespondent questionnaire.
eAppendix 5. Multivariable associations of interviewed status (vs all non-participants) with demographic and cellular telephone use characteristics, MOBI-Kids, France, Germany, Israel, Italy, Japan, and Spain.

|  | n | $\begin{gathered} \text { Scenario A } \\ \text { OR ( } 95 \% \mathrm{CI} \text { ) } \end{gathered}$ | Scenario B |  |  | Scenario C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | n | OR (95\% CI) | n | OR (95\% CI) |
| Intercept | 3,596 | 2.94 (1.82-4.74) | 3,596 | 3.33 (2.07-5.37) | 3,596 | 3.50 (2.18-5.62) |
| Age (Years) | 3,596 | 0.95 (0.92-0.97) | 3,596 | 0.94 (0.91-0.96) | 3,596 | 0.93 (0.90-0.95) |
| Case Status | 912 | 2.74 (1.49-5.04) | 912 | 2.13 (1.18-3.85) | 912 | 2.84 (1.53-5.28) |
| Time Since Start of Use (Years)/ Average Length of Calls (Min/Week) |  |  |  |  |  |  |
| Never Regular Use | 532 | Ref. | 544 | Ref. | 554 | Ref. |
| 1-4/<60 | 776 | 1.22 (0.93-1.59) | 772 | 1.24 (0.95-1.62) | 769 | 1.42 (1.09-1.85) |
| 1-4/60+ | 327 | 0.87 (0.62-1.21) | 349 | 0.79 (0.57-1.10) | 382 | 0.77 (0.56-1.05) |
| $5+/<60$ | 780 | 1.51 (1.12-2.03) | 749 | 1.91 (1.41-2.58) | 707 | 2.59 (1.90-3.53) |
| 5+/60+ | 1,181 | 1.41 (1.05-1.89) | 1,182 | 1.48 (1.10-1.98) | 1,184 | 1.78 (1.33-2.39) |
| Case Status*Time Since Start of Use (Years)/Average Length of Calls (Min/Week) |  |  |  |  |  |  |
| Case Status: 1-4/<60 | 200 | 0.89 (0.50-1.60) | 194 | 1.34 (0.76-2.37) | 199 | 0.86 (0.49-1.53) |
| Case Status: 1-4/60+ | 73 | 0.96 (0.46-2.03) | 76 | 1.26 (0.62-2.56) | 80 | 0.87 (0.43-1.75) |
| Case Status: $5+/<60$ | 215 | 1.31 (0.72-2.37) | 219 | 1.37 (0.78-2.42) | 206 | 1.24 (0.67-2.29) |
| Case Status: 5+/60+ | 275 | 0.74 (0.43-1.26) | 263 | 1.11 (0.66-1.88) | 275 | 0.72 (0.43-1.23) |

Note: A total of 237 interviewed or NRQ participants with missing data were excluded from analysis. Time since start of use (years)/average length of calls (min/week) was imputed (by age group) Scenario A: for both refusers without a NRQ and other non-participants according to the weighted mean of responses among interviewed participants and refusers with a NRQ; Scenario B: for refusers without a NRQ according to the NRQ distribution and for other non-participants according to the weighted mean of responses among interviewed participants and refusers with and without a NRQ; Scenario C: for both refusers without a NRQ and other non-participants according to the NRQ distribution. See also eAppendix 2 and 3. Where a range was reported (for both year of start of use and average length of calls) the mid-point was used. ORs ( $95 \%$

CIs) based on mixed effects logistic regression models with a random country intercept and case status variable. The random effects variance for the intercept was $0.14,0.14$, and 0.13 and for case status $0.26,0.26$, and 0.29 for scenarios A, B, and C respectively. The AIC for scenarios A, B, and C was $4,567.5,4,545.2$, and $4,498.5$ respectively. Average length of calls represents average length of time spent making and receiving calls in the last three months during which they were using their phone. NRQ indicates non-respondent questionnaire, OR indicates odds ratio, CI indicates confidence interval.
eAppendix 6. Distribution of standardized IPSWs for all interviewed study participants based on multivariable models (eAppendix 5), MOBI-Kids.

|  | Mean | SD | Min | P25 | P50 | P75 | Max |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Controls |  |  |  |  |  |  |  |
| Scenario A | 1.09 | 0.11 | 0.89 | 1.01 | 1.07 | 1.16 | 1.71 |
| Scenario B | 1.09 | 0.14 | 0.81 | 0.99 | 1.06 | 1.17 | 1.94 |
| Scenario C | 1.09 | 0.19 | 0.75 | 0.96 | 1.05 | 1.17 | 2.31 |
| Cases |  |  |  |  |  |  |  |
| Scenario A | 0.80 | 0.10 | 0.60 | 0.73 | 0.79 | 0.86 | 1.26 |
| Scenario B | 0.80 | 0.10 | 0.60 | 0.73 | 0.80 | 0.85 | 1.21 |
| Scenario C | 0.80 | 0.12 | 0.58 | 0.72 | 0.79 | 0.87 | 1.41 |

Note: A total of 10 interviewed controls were excluded here due to missing information on age ( $\mathrm{n}=2,799$ ). IPSW indicates inverse probability of selection weight.
eAppendix 7. Multivariable associations of interviewed status (vs all non-participants) with demographic and cellular telephone use characteristics (time since start of use), MOBI-Kids, France, Germany, Israel, Italy, Japan, and Spain.


Note: A total of 210 interviewed or NRQ participants with missing data were excluded from analysis. Time since start of use (years) was imputed (by age group) Scenario A: for both refusers without a NRQ and other non-participants according to the weighted mean of responses among interviewed participants and refusers with a NRQ; Scenario B: for refusers without a NRQ according to the NRQ distribution and for other non-participants according to the weighted mean of responses among interviewed participants and refusers with and without a NRQ; Scenario C: for both refusers without a NRQ and other non-participants according to the NRQ distribution. See also eAppendix 2 and 3. Where a range was reported (for year of start of use) the mid-point was used. ORs ( $95 \%$ CIs) based on mixed effects logistic regression models with a random country intercept and case status variable. The random effects variance for the intercept was 0.14 for scenarios A-C and for case status was 0.28 for scenario A, 0.26 for scenario B, and 0.29 for scenario C. The AIC for scenarios A, B, and C was $4,617.2,4,608.7$, and $4,581.1$ respectively. NRQ indicates non-respondent questionnaire, OR indicates odds ratio, CI indicates confidence interval.
eAppendix 8. Distribution of standardized IPSWs for all interviewed study participants based on multivariable models (eAppendix 7), MOBI-Kids.

|  | Mean | SD | Min | P25 | P50 | P75 | Max |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Controls |  |  |  |  |  |  |  |
| Scenario A | 1.09 | 0.10 | 0.83 | 1.02 | 1.07 | 1.14 | 1.64 |
| Scenario B | 1.09 | 0.12 | 0.79 | 1.01 | 1.07 | 1.15 | 1.86 |
| Scenario C | 1.09 | 0.15 | 0.73 | 0.99 | 1.06 | 1.15 | 2.16 |
| Cases |  |  |  |  |  |  |  |
| Scenario A | 0.80 | 0.11 | 0.60 | 0.73 | 0.80 | 0.85 | 1.39 |
| Scenario B | 0.80 | 0.10 | 0.60 | 0.72 | 0.80 | 0.85 | 1.21 |
| Scenario C | 0.80 | 0.11 | 0.58 | 0.72 | 0.79 | 0.86 | 1.34 |

Note: A total of 10 interviewed controls were excluded here due to missing information on age ( $\mathrm{n}=2,799$ ). IPSW indicates inverse probability of selection weight.
eAppendix 9. Sensitivity analysis of selected selection ORs for cellular telephone use by usage scenarios $\mathrm{Aa}, \mathrm{Bb}$, and Cc , applying the same scenario to both cases and controls, according to time since start of use (years), MOBI-Kids.

| Time Since Start <br> of Use (Years) | Scenario (Control, Case) |  |  |
| :--- | :---: | :---: | :---: |
|  | Aa | Bb | Cc |
| $1+$ | 0.96 | 0.95 | 0.94 |
| $2+$ | 0.97 | 0.96 | 0.96 |
| $3+$ | 0.95 | 0.93 | 0.93 |
| $4+$ | 0.93 | 0.91 | 0.90 |
| $5+$ | 0.94 | 0.92 | 0.92 |
| $6+$ | 0.96 | 0.94 | 0.94 |
| $7+$ | 0.96 | 0.95 | 0.94 |
| $8+$ | 0.98 | 0.97 | 0.97 |
| $9+$ | 0.98 | 0.97 | 0.97 |
| $10+$ | 0.99 | 0.99 | 0.99 |

OR indicates odds ratio.
eFigure 1: Interviewed and NRQ respondents, MOBI-Kids.

Controls


${ }^{\text {a }}$ France, Germany, Israel, Italy, Japan, Spain
${ }^{\text {b }}$ Australia, Austria, Canada, Greece, India, Korea, Netherlands, New Zealand
NRQ indicates non-respondent questionnaire.

