Tables

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## Sample details

## WASH characteristics

Descriptive statistics of covariate by country

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| country | N clusters | N households | Number of children | Mean child age |
| CAR | 451 | 8,994 | 9,871 | 2.5 |
| Chad | 769 | 19,217 | 23,743 | 2.6 |
| Congo | 531 | 12,811 | 9,210 | 2.9 |
| CoteIvoire | 511 | 11,879 | 14,227 | 2.7 |
| DRC | 709 | 20,810 | 23,122 | 2.4 |
| Gambia | 390 | 7,748 | 10,845 | 2.5 |
| Ghana | 660 | 12,886 | 9,441 | 2.5 |
| Guinea Bissau | 375 | 7,500 | 8,231 | 2.6 |
| Nigeria | 2,239 | 33,901 | 42,718 | 3.0 |
| Sao Tome+Prin. | 127 | 3,728 | 1,911 | 2.5 |
| Sierra Leone | 600 | 15,309 | 13,444 | 2.5 |
| Togo | 420 | 7,916 | 5,295 | 2.5 |
| Lesotho | 400 | 8,847 | 3,693 | 2.6 |
| Madagascar | 774 | 17,870 | 13,694 | 2.5 |
| Zimbabwe | 462 | 11,091 | 6,741 | 2.5 |
| Paraguay | 499 | 7,313 | 8,098 | 2.7 |
| Suriname | 470 | 7,915 | 4,477 | 2.6 |
| Bangladesh | 3,220 | 61,242 | 24,057 | 2.5 |
| Nepal | 512 | 12,796 | 6,892 | 2.6 |
| Pakistan | 2,692 | 51,660 | 42,242 | 2.5 |
| Kiribati | 164 | 3,071 | 2,492 | 2.4 |
| Laos | 1,165 | 22,287 | 12,414 | 2.5 |
| Mongolia | 580 | 13,798 | 6,315 | 2.6 |
| Tonga | 139 | 2,744 | 1,493 | 2.6 |
| Algeria | 1,253 | 31,319 | 15,241 | 2.5 |
| Iraq | 1,710 | 20,214 | 17,177 | 2.5 |
| Tunisia | 600 | 11,225 | 3,514 | 2.6 |
| Georgia | 706 | 12,270 | 2,540 | 2.6 |
| Kosovo | 324 | 6,549 | 1,595 | 2.5 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | Total | Missing |
| **Total** | 25,156 (33.8%) | 14,827 (19.9%) | 16,082 (21.6%) | 18,324 (24.6%) | 74,389 |  |
| **CAR** | 171 (14.1%) | 195 (16.1%) | 335 (27.6%) | 511 (42.2%) | 1,212 | 7782 |
| **Chad** | 24 (1.1%) | 104 (4.6%) | 399 (17.5%) | 1,748 (76.8%) | 2,275 | 16942 |
| **Congo** | 292 (20.2%) | 310 (21.4%) | 493 (34%) | 353 (24.4%) | 1,448 | 11363 |
| **CoteIvoire** | 351 (18.8%) | 248 (13.3%) | 338 (18.1%) | 926 (49.7%) | 1,863 | 10016 |
| **DRC** | 862 (31%) | 1,084 (39%) | 557 (20.1%) | 275 (9.9%) | 2,778 | 18032 |
| **Gambia** | 524 (28.1%) | 419 (22.5%) | 569 (30.5%) | 353 (18.9%) | 1,865 | 5883 |
| **Ghana** | 789 (24.7%) | 573 (17.9%) | 942 (29.5%) | 894 (28%) | 3,198 | 9688 |
| **Guinea Bissau** | 341 (18.7%) | 504 (27.6%) | 624 (34.1%) | 359 (19.6%) | 1,828 | 5672 |
| **Nigeria** | 329 (11.3%) | 435 (15%) | 659 (22.7%) | 1,481 (51%) | 2,904 | 30997 |
| **Sao Tome+Prin.** | 331 (58%) | 63 (11%) | 54 (9.5%) | 123 (21.5%) | 571 | 3157 |
| **Sierra Leone** | 59 (3.3%) | 186 (10.5%) | 551 (31%) | 983 (55.3%) | 1,779 | 13530 |
| **Togo** | 145 (12.6%) | 150 (13%) | 276 (24%) | 581 (50.4%) | 1,152 | 6764 |
| **Lesotho** | 654 (47.6%) | 338 (24.6%) | 223 (16.2%) | 158 (11.5%) | 1,373 | 7474 |
| **Madagascar** | 330 (9.6%) | 254 (7.4%) | 715 (20.8%) | 2,134 (62.2%) | 3,433 | 14437 |
| **Zimbabwe** | 449 (21.1%) | 409 (19.3%) | 622 (29.3%) | 644 (30.3%) | 2,124 | 8967 |
| **Paraguay** | 839 (47.9%) | 439 (25.1%) | 305 (17.4%) | 167 (9.5%) | 1,750 | 5563 |
| **Suriname** | 590 (34.7%) | 567 (33.4%) | 351 (20.6%) | 192 (11.3%) | 1,700 | 6215 |
| **Bangladesh** | 1,109 (18.1%) | 1,234 (20.1%) | 1,894 (30.8%) | 1,903 (31%) | 6,140 | 55102 |
| **Nepal** | 326 (12.8%) | 599 (23.5%) | 917 (36%) | 704 (27.7%) | 2,546 | 10250 |
| **Pakistan** | 3,151 (41%) | 2,270 (29.5%) | 1,322 (17.2%) | 951 (12.4%) | 7,694 | 43966 |
| **Kiribati** | 53 (8.5%) | 136 (21.9%) | 213 (34.2%) | 220 (35.4%) | 622 | 2449 |
| **Laos** | 517 (15.5%) | 584 (17.5%) | 993 (29.7%) | 1,252 (37.4%) | 3,346 | 18941 |
| **Mongolia** | 2,171 (79.3%) | 266 (9.7%) | 165 (6%) | 134 (4.9%) | 2,736 | 11062 |
| **Tonga** | 143 (23.3%) | 143 (23.3%) | 195 (31.8%) | 132 (21.5%) | 613 | 2131 |
| **Algeria** | 2,831 (69.5%) | 642 (15.8%) | 401 (9.8%) | 202 (5%) | 4,076 | 27243 |
| **Iraq** | 3,337 (49.6%) | 1,565 (23.3%) | 1,296 (19.3%) | 526 (7.8%) | 6,724 | 13490 |
| **Tunisia** | 1,975 (71.5%) | 433 (15.7%) | 213 (7.7%) | 140 (5.1%) | 2,761 | 8464 |
| **Georgia** | 1,522 (56.4%) | 528 (19.6%) | 392 (14.5%) | 257 (9.5%) | 2,699 | 9571 |
| **Kosovo** | 941 (79.8%) | 149 (12.6%) | 68 (5.8%) | 21 (1.8%) | 1,179 | 5370 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | Total | Missing |
| **Total** | 34,750 (49.8%) | 12,422 (17.8%) | 10,201 (14.6%) | 12,382 (17.8%) | 69,755 |  |
| **CAR** | 323 (30.8%) | 134 (12.8%) | 212 (20.2%) | 379 (36.2%) | 1,048 | 7946 |
| **Chad** | 279 (13.1%) | 367 (17.3%) | 400 (18.8%) | 1,078 (50.8%) | 2,124 | 17093 |
| **Congo** | 465 (37.5%) | 254 (20.5%) | 271 (21.9%) | 250 (20.2%) | 1,240 | 11571 |
| **CoteIvoire** | 720 (41.4%) | 232 (13.3%) | 152 (8.7%) | 635 (36.5%) | 1,739 | 10140 |
| **DRC** | 1,103 (40.3%) | 1,012 (36.9%) | 429 (15.7%) | 195 (7.1%) | 2,739 | 18071 |
| **Gambia** | 1,021 (57.9%) | 336 (19%) | 220 (12.5%) | 187 (10.6%) | 1,764 | 5984 |
| **Ghana** | 1,695 (53.9%) | 555 (17.6%) | 463 (14.7%) | 433 (13.8%) | 3,146 | 9740 |
| **Guinea Bissau** | 697 (38.1%) | 241 (13.2%) | 395 (21.6%) | 495 (27.1%) | 1,828 | 5672 |
| **Nigeria** | 673 (26%) | 377 (14.6%) | 353 (13.7%) | 1,181 (45.7%) | 2,584 | 31317 |
| **Sao Tome+Prin.** | 236 (69%) | 25 (7.3%) | 26 (7.6%) | 55 (16.1%) | 342 | 3386 |
| **Sierra Leone** | 179 (10.2%) | 172 (9.8%) | 503 (28.8%) | 893 (51.1%) | 1,747 | 13562 |
| **Togo** | 376 (34.6%) | 173 (15.9%) | 151 (13.9%) | 386 (35.5%) | 1,086 | 6830 |
| **Lesotho** | 918 (68.6%) | 249 (18.6%) | 123 (9.2%) | 49 (3.7%) | 1,339 | 7508 |
| **Madagascar** | 502 (15.4%) | 328 (10%) | 631 (19.3%) | 1,804 (55.3%) | 3,265 | 14605 |
| **Zimbabwe** | 926 (45.3%) | 381 (18.6%) | 341 (16.7%) | 395 (19.3%) | 2,043 | 9048 |
| **Paraguay** | 998 (58.2%) | 390 (22.7%) | 203 (11.8%) | 124 (7.2%) | 1,715 | 5598 |
| **Suriname** | 888 (54.9%) | 452 (27.9%) | 171 (10.6%) | 107 (6.6%) | 1,618 | 6297 |
| **Bangladesh** | 3,750 (61.8%) | 1,329 (21.9%) | 681 (11.2%) | 309 (5.1%) | 6,069 | 55173 |
| **Nepal** | 524 (21.4%) | 660 (27%) | 780 (31.9%) | 481 (19.7%) | 2,445 | 10351 |
| **Pakistan** | 4,455 (65%) | 1,384 (20.2%) | 587 (8.6%) | 424 (6.2%) | 6,850 | 44810 |
| **Kiribati** | 68 (11.5%) | 131 (22.2%) | 169 (28.7%) | 221 (37.5%) | 589 | 2482 |
| **Laos** | 570 (17.3%) | 588 (17.9%) | 946 (28.7%) | 1,188 (36.1%) | 3,292 | 18995 |
| **Mongolia** | 2,106 (81.1%) | 178 (6.9%) | 166 (6.4%) | 148 (5.7%) | 2,598 | 11200 |
| **Tonga** | 153 (28.2%) | 160 (29.5%) | 140 (25.8%) | 90 (16.6%) | 543 | 2201 |
| **Algeria** | 2,641 (84.3%) | 258 (8.2%) | 151 (4.8%) | 84 (2.7%) | 3,134 | 28185 |
| **Iraq** | 3,866 (57.8%) | 1,303 (19.5%) | 1,084 (16.2%) | 434 (6.5%) | 6,687 | 13527 |
| **Tunisia** | 2,129 (80%) | 283 (10.6%) | 135 (5.1%) | 115 (4.3%) | 2,662 | 8563 |
| **Georgia** | 1,590 (65.5%) | 352 (14.5%) | 263 (10.8%) | 224 (9.2%) | 2,429 | 9841 |
| **Kosovo** | 899 (82.5%) | 118 (10.8%) | 55 (5%) | 18 (1.7%) | 1,090 | 5459 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Continuous | Basic | Limited | Unimproved | Surface water | Total | Missing |
| **Total** | 108,879 (24.2%) | 244,727 (54.3%) | 20,181 (4.5%) | 51,451 (11.4%) | 25,448 (5.6%) | 450,686 |  |
| **CAR** | 186 (2.3%) | 3,089 (38.2%) | 1,600 (19.8%) | 2,821 (34.9%) | 384 (4.8%) | 8,080 | 914 |
| **Chad** | 634 (3.4%) | 8,566 (46.6%) | 1,719 (9.4%) | 5,338 (29%) | 2,126 (11.6%) | 18,383 | 834 |
| **Congo** | 749 (5.9%) | 7,031 (55%) | 1,043 (8.2%) | 2,234 (17.5%) | 1,736 (13.6%) | 12,793 | 18 |
| **CoteIvoire** | 1,339 (11.3%) | 7,098 (60%) | 1,036 (8.8%) | 1,540 (13%) | 823 (7%) | 11,836 | 43 |
| **DRC** | 87 (0.4%) | 5,396 (26.3%) | 2,226 (10.9%) | 10,205 (49.8%) | 2,576 (12.6%) | 20,490 | 320 |
| **Gambia** | 173 (2.3%) | 6,089 (82.4%) | 490 (6.6%) | 639 (8.6%) | 0 (0%) | 7,391 | 357 |
| **Ghana** | 843 (6.5%) | 9,643 (74.9%) | 864 (6.7%) | 490 (3.8%) | 1,034 (8%) | 12,874 | 12 |
| **Guinea Bissau** | 607 (8.3%) | 3,444 (47%) | 462 (6.3%) | 2,758 (37.6%) | 64 (0.9%) | 7,335 | 165 |
| **Nigeria** | 5,740 (17%) | 16,442 (48.6%) | 1,942 (5.7%) | 5,216 (15.4%) | 4,479 (13.2%) | 33,819 | 82 |
| **Sao Tome+Prin.** | 211 (6.2%) | 2,805 (82.2%) | 261 (7.6%) | 88 (2.6%) | 47 (1.4%) | 3,412 | 316 |
| **Sierra Leone** | 1,108 (7.2%) | 7,205 (47.1%) | 1,032 (6.7%) | 3,245 (21.2%) | 2,700 (17.7%) | 15,290 | 19 |
| **Togo** | 728 (9.2%) | 4,858 (61.5%) | 490 (6.2%) | 1,248 (15.8%) | 574 (7.3%) | 7,898 | 18 |
| **Lesotho** | 221 (2.5%) | 6,753 (76.6%) | 792 (9%) | 977 (11.1%) | 76 (0.9%) | 8,819 | 28 |
| **Madagascar** | 1,101 (6.2%) | 5,461 (30.6%) | 389 (2.2%) | 6,652 (37.3%) | 4,235 (23.7%) | 17,838 | 32 |
| **Zimbabwe** | 876 (7.9%) | 6,641 (60%) | 1,373 (12.4%) | 1,504 (13.6%) | 673 (6.1%) | 11,067 | 24 |
| **Paraguay** | 443 (6.1%) | 6,417 (88.7%) | 18 (0.2%) | 298 (4.1%) | 59 (0.8%) | 7,235 | 78 |
| **Suriname** | 1,459 (18.5%) | 6,279 (79.8%) | 20 (0.3%) | 28 (0.4%) | 85 (1.1%) | 7,871 | 44 |
| **Bangladesh** | 42,721 (69.8%) | 16,833 (27.5%) | 283 (0.5%) | 631 (1%) | 764 (1.2%) | 61,232 | 10 |
| **Nepal** | 3,632 (29.2%) | 8,202 (65.9%) | 265 (2.1%) | 325 (2.6%) | 31 (0.2%) | 12,455 | 341 |
| **Pakistan** | 28,911 (56.2%) | 20,560 (40%) | 1,207 (2.3%) | 330 (0.6%) | 412 (0.8%) | 51,420 | 240 |
| **Kiribati** | 712 (23.4%) | 1,550 (50.9%) | 33 (1.1%) | 751 (24.7%) | 0 (0%) | 3,046 | 25 |
| **Laos** | 11,165 (50.1%) | 7,553 (33.9%) | 84 (0.4%) | 2,578 (11.6%) | 889 (4%) | 22,269 | 18 |
| **Mongolia** | 716 (5.2%) | 9,974 (73%) | 707 (5.2%) | 764 (5.6%) | 1,511 (11.1%) | 13,672 | 126 |
| **Tonga** | 5 (1%) | 494 (99%) | 0 (0%) | 0 (0%) | 0 (0%) | 499 | 2245 |
| **Algeria** | 1,027 (4.1%) | 22,838 (91%) | 984 (3.9%) | 217 (0.9%) | 19 (0.1%) | 25,085 | 6234 |
| **Iraq** | 644 (3.2%) | 19,248 (95.5%) | 105 (0.5%) | 16 (0.1%) | 141 (0.7%) | 20,154 | 60 |
| **Tunisia** | 1,279 (11.5%) | 9,401 (84.4%) | 302 (2.7%) | 156 (1.4%) | 7 (0.1%) | 11,145 | 80 |
| **Georgia** | 830 (6.8%) | 10,851 (89.1%) | 166 (1.4%) | 338 (2.8%) | 0 (0%) | 12,185 | 85 |
| **Kosovo** | 732 (14.4%) | 4,006 (78.7%) | 288 (5.7%) | 64 (1.3%) | 3 (0.1%) | 5,093 | 1456 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | High coverage | Basic | Limited | Unimproved | No facility | Total | Missing |
| **Total** | 81,761 (22.3%) | 54,624 (14.9%) | 59,589 (16.2%) | 92,531 (25.2%) | 78,457 (21.4%) | 366,962 |  |
| **CAR** | 0 (0%) | 805 (9%) | 0 (0%) | 6,007 (67%) | 2,148 (24%) | 8,960 | 34 |
| **Chad** | 138 (0.7%) | 1,572 (8.3%) | 0 (0%) | 4,158 (22.1%) | 12,959 (68.8%) | 18,827 | 390 |
| **Congo** | 0 (0%) | 481 (4.1%) | 2,620 (22.4%) | 6,198 (53.1%) | 2,384 (20.4%) | 11,683 | 1128 |
| **CoteIvoire** | 104 (1.1%) | 544 (5.5%) | 2,510 (25.4%) | 3,417 (34.6%) | 3,301 (33.4%) | 9,876 | 2003 |
| **DRC** | 0 (0%) | 2,310 (11.2%) | 0 (0%) | 14,660 (71.3%) | 3,585 (17.4%) | 20,555 | 255 |
| **Gambia** | 334 (4.4%) | 2,356 (30.7%) | 0 (0%) | 4,847 (63.2%) | 132 (1.7%) | 7,669 | 79 |
| **Ghana** | 143 (1.2%) | 1,480 (12.2%) | 5,543 (45.8%) | 1,691 (14%) | 3,242 (26.8%) | 12,099 | 787 |
| **Guinea Bissau** | 35 (0.5%) | 756 (10.1%) | 0 (0%) | 5,491 (73.4%) | 1,197 (16%) | 7,479 | 21 |
| **Nigeria** | 1,173 (4%) | 5,068 (17.3%) | 6,116 (20.9%) | 6,981 (23.9%) | 9,924 (33.9%) | 29,262 | 4639 |
| **Sao Tome+Prin.** | 92 (2.6%) | 1,166 (33.3%) | 0 (0%) | 622 (17.7%) | 1,626 (46.4%) | 3,506 | 222 |
| **Sierra Leone** | 0 (0%) | 1,255 (8.5%) | 4,593 (31.2%) | 5,525 (37.5%) | 3,345 (22.7%) | 14,718 | 591 |
| **Togo** | 0 (0%) | 417 (5.9%) | 2,395 (33.7%) | 782 (11%) | 3,510 (49.4%) | 7,104 | 812 |
| **Lesotho** | 43 (0.9%) | 77 (1.6%) | 1,867 (39.3%) | 556 (11.7%) | 2,208 (46.5%) | 4,751 | 4096 |
| **Madagascar** | 59 (0.4%) | 313 (2%) | 5,018 (31.8%) | 2,081 (13.2%) | 8,319 (52.7%) | 15,790 | 2080 |
| **Zimbabwe** | 84 (1%) | 774 (9.6%) | 3,988 (49.6%) | 826 (10.3%) | 2,371 (29.5%) | 8,043 | 3048 |
| **Paraguay** | 1,724 (46.4%) | 459 (12.3%) | 267 (7.2%) | 1,179 (31.7%) | 90 (2.4%) | 3,719 | 3594 |
| **Suriname** | 527 (33.5%) | 55 (3.5%) | 515 (32.7%) | 313 (19.9%) | 163 (10.4%) | 1,573 | 6342 |
| **Bangladesh** | 6,156 (15.2%) | 11,228 (27.7%) | 12,981 (32%) | 8,974 (22.1%) | 1,186 (2.9%) | 40,525 | 20717 |
| **Nepal** | 6,718 (54.9%) | 2,601 (21.2%) | 0 (0%) | 2,313 (18.9%) | 608 (5%) | 12,240 | 556 |
| **Pakistan** | 10,991 (30.7%) | 7,712 (21.5%) | 5,764 (16.1%) | 3,526 (9.8%) | 7,866 (21.9%) | 35,859 | 15801 |
| **Kiribati** | 76 (3.3%) | 391 (17%) | 389 (16.9%) | 200 (8.7%) | 1,250 (54.2%) | 2,306 | 765 |
| **Laos** | 6,342 (43.4%) | 1,992 (13.6%) | 704 (4.8%) | 588 (4%) | 4,989 (34.1%) | 14,615 | 7672 |
| **Mongolia** | 1,633 (17.7%) | 2,084 (22.6%) | 3,151 (34.2%) | 673 (7.3%) | 1,660 (18%) | 9,201 | 4597 |
| **Tonga** | 1,848 (70.3%) | 318 (12.1%) | 0 (0%) | 461 (17.5%) | 3 (0.1%) | 2,630 | 114 |
| **Algeria** | 19,630 (63.4%) | 4,886 (15.8%) | 0 (0%) | 6,218 (20.1%) | 239 (0.8%) | 30,973 | 346 |
| **Iraq** | 15,206 (83.9%) | 1,190 (6.6%) | 689 (3.8%) | 1,022 (5.6%) | 27 (0.1%) | 18,134 | 2080 |
| **Tunisia** | 4,022 (86.3%) | 187 (4%) | 263 (5.6%) | 82 (1.8%) | 105 (2.3%) | 4,659 | 6566 |
| **Georgia** | 2,001 (51.8%) | 390 (10.1%) | 216 (5.6%) | 1,240 (32.1%) | 17 (0.4%) | 3,864 | 8406 |
| **Kosovo** | 2,682 (42.3%) | 1,757 (27.7%) | 0 (0%) | 1,900 (30%) | 3 (0%) | 6,342 | 207 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Basic | Limited | None | Total | Missing |
| **Total** | 253,190 (74.5%) | 33,746 (9.9%) | 52,902 (15.6%) | 339,838 |  |
| **CAR** | 1,852 (63.1%) | 421 (14.3%) | 664 (22.6%) | 2,937 | 6057 |
| **Chad** | 7,098 (56.4%) | 2,851 (22.6%) | 2,646 (21%) | 12,595 | 6622 |
| **Congo** | 5,030 (51.5%) | 815 (8.3%) | 3,925 (40.2%) | 9,770 | 3041 |
| **CoteIvoire** | 2,535 (42.1%) | 800 (13.3%) | 2,693 (44.7%) | 6,028 | 5851 |
| **DRC** | 2,524 (28.9%) | 729 (8.3%) | 5,482 (62.8%) | 8,735 | 12075 |
| **Gambia** | 2,561 (37.7%) | 692 (10.2%) | 3,533 (52.1%) | 6,786 | 962 |
| **Ghana** | 5,997 (64.3%) | 723 (7.7%) | 2,610 (28%) | 9,330 | 3556 |
| **Guinea Bissau** | 813 (62%) | 141 (10.7%) | 358 (27.3%) | 1,312 | 6188 |
| **Nigeria** | 3,519 (52.1%) | 1,060 (15.7%) | 2,169 (32.1%) | 6,748 | 27153 |
| **Sao Tome+Prin.** | 1,766 (77.7%) | 91 (4%) | 417 (18.3%) | 2,274 | 1454 |
| **Sierra Leone** | 3,079 (53%) | 1,162 (20%) | 1,572 (27%) | 5,813 | 9496 |
| **Togo** | 1,624 (64.6%) | 130 (5.2%) | 759 (30.2%) | 2,513 | 5403 |
| **Lesotho** | 1,171 (16.4%) | 196 (2.7%) | 5,768 (80.8%) | 7,135 | 1712 |
| **Madagascar** | 3,885 (33.3%) | 1,493 (12.8%) | 6,286 (53.9%) | 11,664 | 6206 |
| **Zimbabwe** | 7,356 (69.1%) | 2,589 (24.3%) | 705 (6.6%) | 10,650 | 441 |
| **Paraguay** | 5,368 (80.8%) | 954 (14.4%) | 320 (4.8%) | 6,642 | 671 |
| **Suriname** | 5,096 (89.7%) | 365 (6.4%) | 218 (3.8%) | 5,679 | 2236 |
| **Bangladesh** | 43,367 (84.1%) | 5,904 (11.5%) | 2,286 (4.4%) | 51,557 | 9685 |
| **Nepal** | 9,628 (77.6%) | 1,249 (10.1%) | 1,534 (12.4%) | 12,411 | 385 |
| **Pakistan** | 46,671 (92.4%) | 2,027 (4%) | 1,839 (3.6%) | 50,537 | 1123 |
| **Kiribati** | 1,811 (69.9%) | 327 (12.6%) | 453 (17.5%) | 2,591 | 480 |
| **Laos** | 11,891 (58.5%) | 7,087 (34.9%) | 1,332 (6.6%) | 20,310 | 1977 |
| **Mongolia** | 11,120 (83.1%) | 142 (1.1%) | 2,118 (15.8%) | 13,380 | 418 |
| **Tonga** | 1,830 (76.1%) | 489 (20.3%) | 85 (3.5%) | 2,404 | 340 |
| **Algeria** | 25,059 (90.4%) | 738 (2.7%) | 1,933 (7%) | 27,730 | 3589 |
| **Iraq** | 19,570 (97.9%) | 158 (0.8%) | 263 (1.3%) | 19,991 | 223 |
| **Tunisia** | 10,028 (95.2%) | 235 (2.2%) | 271 (2.6%) | 10,534 | 691 |
| **Georgia** | 10,941 (92.9%) | 178 (1.5%) | 663 (5.6%) | 11,782 | 488 |
| **Kosovo** | 0 (0%) | 0 (0%) | 0 (0%) | 0 | 6549 |

Descriptive statistics of covariate by country

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Improved Water | Improved Sanitation | Improved Hygeine | Improved WASH |
| **Total** | 373,787 (81.7%) | 293,593 (63.2%) | 253,190 (59.4%) | 192,178 (45.8%) |
| **CAR** | 4,875 (60%) | 823 (9.2%) | 1,852 (26.7%) | 292 (4.8%) |
| **Chad** | 10,919 (57.9%) | 1,994 (10.4%) | 7,098 (42.4%) | 1,036 (6.3%) |
| **Congo** | 8,823 (68.9%) | 4,229 (33%) | 5,030 (40.2%) | 2,043 (16.3%) |
| **CoteIvoire** | 9,473 (79.7%) | 5,161 (43.4%) | 2,535 (21.4%) | 1,293 (10.9%) |
| **DRC** | 7,709 (37.3%) | 2,471 (11.9%) | 2,524 (14.3%) | 373 (2.1%) |
| **Gambia** | 6,752 (91.4%) | 2,760 (35.7%) | 2,561 (34.2%) | 1,231 (17.3%) |
| **Ghana** | 11,350 (88.1%) | 7,953 (61.7%) | 5,997 (55%) | 4,063 (37.3%) |
| **Guinea Bissau** | 4,513 (61.3%) | 803 (10.7%) | 813 (13.1%) | 171 (2.8%) |
| **Nigeria** | 24,124 (71.2%) | 16,996 (50.1%) | 3,519 (10.5%) | 2,592 (7.8%) |
| **Sao Tome+Prin.** | 3,277 (95.8%) | 1,458 (39.3%) | 1,766 (54.7%) | 916 (31.6%) |
| **Sierra Leone** | 9,345 (61%) | 6,439 (42.1%) | 3,079 (21.4%) | 1,678 (11.7%) |
| **Togo** | 6,076 (76.8%) | 3,624 (45.8%) | 1,624 (32.2%) | 1,022 (20.3%) |
| **Lesotho** | 7,766 (87.8%) | 6,083 (68.8%) | 1,171 (15.8%) | 962 (13%) |
| **Madagascar** | 6,951 (38.9%) | 7,470 (41.8%) | 3,885 (23.6%) | 1,789 (10.9%) |
| **Zimbabwe** | 8,890 (80.2%) | 7,894 (71.2%) | 7,356 (67.3%) | 5,023 (46%) |
| **Paraguay** | 6,878 (94.1%) | 6,044 (82.6%) | 5,368 (74.7%) | 4,585 (63.8%) |
| **Suriname** | 7,758 (98%) | 7,439 (94%) | 5,096 (83.9%) | 4,750 (78.2%) |
| **Bangladesh** | 59,837 (97.7%) | 51,082 (83.4%) | 43,367 (79.3%) | 38,089 (69.6%) |
| **Nepal** | 12,099 (96.2%) | 9,833 (77.1%) | 9,628 (76.2%) | 7,317 (59.2%) |
| **Pakistan** | 50,678 (98.1%) | 40,268 (77.9%) | 46,671 (91.5%) | 37,379 (73.3%) |
| **Kiribati** | 2,295 (74.7%) | 1,621 (52.8%) | 1,811 (61.1%) | 907 (30.6%) |
| **Laos** | 18,802 (84.4%) | 16,710 (75%) | 11,891 (54.3%) | 9,628 (44%) |
| **Mongolia** | 11,397 (82.6%) | 11,465 (83.1%) | 11,120 (82.4%) | 8,948 (66.3%) |
| **Tonga** | 499 (99.8%) | 2,278 (83.1%) | 1,830 (68.2%) | 399 (82.6%) |
| **Algeria** | 24,849 (83.3%) | 24,845 (79.4%) | 25,059 (84.1%) | 17,839 (63.1%) |
| **Iraq** | 19,997 (98.9%) | 19,165 (94.8%) | 19,570 (97.7%) | 18,439 (92%) |
| **Tunisia** | 10,982 (97.8%) | 11,038 (98.3%) | 10,028 (94.2%) | 9,749 (91.6%) |
| **Georgia** | 11,847 (96.6%) | 11,013 (89.8%) | 10,941 (91.7%) | 9,665 (81%) |
| **Kosovo** | 5,026 (98.5%) | 4,634 (70.9%) | 0 (0%) | 0 (0%) |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| country | N HAZ | Mean HAZ | Prev. Stunting | N WHZ | Mean WHZ | Prev. Wasting |
| CAR | 8,601 | -1.47 | 38.3 | 8,722 | -0.21 | 5.49 |
| Chad | 21,402 | -1.45 | 38.4 | 21,242 | -0.77 | 16.32 |
| Congo | 5,847 | -0.96 | 24.6 | 5,859 | -0.16 | 5.79 |
| CoteIvoire | 5,649 | -1.12 | 24.3 | 5,790 | -0.30 | 5.08 |
| DRC | 20,908 | -1.68 | 44.0 | 21,125 | -0.15 | 7.07 |
| Gambia | 9,719 | -1.14 | 20.8 | 9,713 | -0.51 | 6.63 |
| Ghana | 8,677 | -0.90 | 17.5 | 8,766 | -0.48 | 7.15 |
| Guinea Bissau | 7,383 | -1.30 | 26.9 | 7,418 | -0.24 | 4.81 |
| Nigeria | 16,123 | -1.63 | 39.6 | 16,310 | -0.43 | 7.32 |
| Sao Tome+Prin. | 1,812 | -0.75 | 13.1 | 1,809 | 0.08 | 4.09 |
| Sierra Leone | 11,447 | -1.15 | 27.5 | 11,478 | -0.03 | 5.20 |
| Togo | 4,910 | -1.15 | 24.4 | 4,908 | -0.37 | 5.79 |
| Lesotho | 3,137 | -1.56 | 35.2 | 3,151 | 0.35 | 2.16 |
| Madagascar | 12,446 | -1.66 | 40.0 | 12,439 | -0.52 | 6.80 |
| Zimbabwe | 5,964 | -1.20 | 23.1 | 5,962 | -0.05 | 2.94 |
| Paraguay | 3,552 | -0.32 | 5.5 | 3,542 | 0.74 | 0.93 |
| Suriname | 3,387 | -0.30 | 7.1 | 3,381 | -0.19 | 6.06 |
| Bangladesh | 22,106 | -1.29 | 27.6 | 22,063 | -0.66 | 9.86 |
| Nepal | 6,469 | -1.39 | 32.5 | 6,494 | -0.63 | 12.00 |
| Pakistan | 38,047 | -1.35 | 31.5 | 37,779 | -0.42 | 7.50 |
| Kiribati | 2,134 | -0.77 | 15.4 | 2,145 | -0.03 | 3.50 |
| Laos | 11,368 | -1.46 | 36.1 | 11,362 | -0.46 | 8.81 |
| Mongolia | 5,931 | -0.52 | 10.5 | 5,894 | 0.67 | 1.29 |
| Tonga | 1,295 | 0.29 | 3.0 | 1,287 | 0.80 | 1.24 |
| Algeria | 13,929 | -0.38 | 10.2 | 13,882 | 0.53 | 2.99 |
| Iraq | 16,366 | -0.36 | 9.9 | 16,312 | 0.28 | 2.76 |
| Tunisia | 3,296 | -0.15 | 8.7 | 3,277 | 0.85 | 2.08 |
| Georgia | 2,022 | -0.17 | 5.8 | 2,002 | 0.54 | 0.50 |
| Kosovo | 1,224 | 0.02 | 3.7 | 1,222 | 0.24 | 2.13 |

Descriptive statistics of covariate by country

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| country | N\_diarrhea\_meas | N\_diarrhea | Prev\_diarrhea | N\_ARI\_meas | N\_ARI | Prev\_ARI |
| CAR | 8,879 | 2,098 | 23.6 | 8,923 | 564 | 6.3 |
| Chad | 21,692 | 5,678 | 26.2 | 21,809 | 2,189 | 10.0 |
| Congo | 6,179 | 1,029 | 16.6 | 0 | 0 | NA |
| CoteIvoire | 5,878 | 873 | 14.8 | 0 | 0 | NA |
| DRC | 21,405 | 3,039 | 14.2 | 21,456 | 792 | 3.7 |
| Gambia | 9,886 | 2,481 | 25.1 | 9,907 | 653 | 6.6 |
| Ghana | 8,877 | 1,520 | 17.1 | 8,880 | 305 | 3.4 |
| Guinea Bissau | 7,475 | 536 | 7.2 | 7,484 | 110 | 1.5 |
| Nigeria | 16,502 | 2,058 | 12.5 | 0 | 0 | NA |
| Sao Tome+Prin. | 1,835 | 313 | 17.1 | 1,842 | 53 | 2.9 |
| Sierra Leone | 11,703 | 909 | 7.8 | 11,764 | 273 | 2.3 |
| Togo | 4,936 | 844 | 17.1 | 4,942 | 79 | 1.6 |
| Lesotho | 3,265 | 265 | 8.1 | 3,281 | 139 | 4.2 |
| Madagascar | 12,852 | 1,795 | 14.0 | 12,862 | 876 | 6.8 |
| Zimbabwe | 6,096 | 853 | 14.0 | 6,107 | 109 | 1.8 |
| Paraguay | 3,729 | 398 | 10.7 | 0 | 0 | NA |
| Suriname | 4,224 | 403 | 9.5 | 4,234 | 69 | 1.6 |
| Bangladesh | 23,087 | 1,589 | 6.9 | 23,101 | 530 | 2.3 |
| Nepal | 6,642 | 681 | 10.2 | 6,658 | 190 | 2.8 |
| Pakistan | 39,783 | 5,434 | 13.7 | 39,849 | 3,747 | 9.4 |
| Kiribati | 2,177 | 258 | 11.8 | 2,179 | 108 | 5.0 |
| Laos | 11,707 | 834 | 7.1 | 11,720 | 154 | 1.3 |
| Mongolia | 6,069 | 506 | 8.3 | 6,093 | 146 | 2.4 |
| Tonga | 1,344 | 38 | 2.8 | 1,347 | 36 | 2.7 |
| Algeria | 14,833 | 889 | 6.0 | 14,873 | 554 | 3.7 |
| Iraq | 16,616 | 2,065 | 12.4 | 16,624 | 691 | 4.2 |
| Tunisia | 3,409 | 278 | 8.2 | 3,420 | 215 | 6.3 |
| Georgia | 2,535 | 334 | 13.2 | 2,540 | 30 | 1.2 |
| Kosovo | 0 | 0 | NA | 0 | 0 | NA |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | Overall | CAR | Chad | Congo | CoteIvoire |
| Tunisia | 12929 (1.9%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Georgia | 14753 (2.2%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Kosovo | 7082 (1.1%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Maternal education |  |  |  |  |  |
| none | 151348 (22.5%) | 4359 (31.3%) | 21585 (69.1%) | 0 (0%) | 0 (0%) |
| primary | 156877 (23.3%) | 5077 (36.5%) | 4597 (14.7%) | 2544 (11.9%) | 11461 (42.5%) |
| secondary | 127457 (18.9%) | 1826 (13.1%) | 2802 (9.0%) | 5366 (25.0%) | 3441 (12.7%) |
| higher | 153928 (22.8%) | 964 (6.9%) | 447 (1.4%) | 9090 (42.4%) | 2935 (10.9%) |
| missing | 29228 (4.3%) | 874 (6.3%) | 250 (0.8%) | 1459 (6.8%) | 936 (3.5%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 45.2 (15.0) | 41.7 (13.4) | 43.0 (13.9) | 30.3 (7.66) | 0 (0%) |
| Median [Min, Max] | 43.0 [11.0, 94.0] | 40.0 [15.0, 92.0] | 40.0 [15.0, 94.0] | 30.0 [15.0, 49.0] | 0 [0, 0] |
| Missing | 140499 (20.8%) | 1672 (12.0%) | 1849 (5.9%) | 11724 (54.7%) | 26997 (100%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 912 (525) | 905 (528) | 934 (520) | 902 (534) | 888 (522) |
| Median [Min, Max] | 917 [-12.0, 1840] | 911 [0, 1830] | 945 [-4.00, 1830] | 900 [1.00, 1830] | 882 [0, 1790] |
| Missing | 355990 (52.8%) | 5067 (36.4%) | 9448 (30.2%) | 11484 (53.5%) | 15634 (57.9%) |
| Child sex |  |  |  |  |  |
| 1 | 166296 (24.7%) | 4499 (32.3%) | 11077 (35.4%) | 5137 (24.0%) | 5843 (21.6%) |
| 2 | 161022 (23.9%) | 4538 (32.6%) | 10783 (34.5%) | 5011 (23.4%) | 5696 (21.1%) |
| Missing | 346571 (51.4%) | 4872 (35.0%) | 9387 (30.0%) | 11299 (52.7%) | 15458 (57.3%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.15 (0.888) | 2.37 (0.922) | 2.55 (0.942) | 2.13 (0.922) | 2.09 (0.926) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 3.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] |
| Missing | 399485 (59.3%) | 5478 (39.4%) | 8792 (28.1%) | 17830 (83.1%) | 20779 (77.0%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 983 (0.1%) | 0 (0%) | 0 (0%) | 983 (4.6%) | 0 (0%) |
| Rural | 393879 (58.4%) | 7977 (57.4%) | 23942 (76.6%) | 12251 (57.1%) | 12916 (47.8%) |
| Urban | 223976 (33.2%) | 5123 (36.8%) | 5739 (18.4%) | 5225 (24.4%) | 5857 (21.7%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 174410 (25.9%) | 4619 (33.2%) | 10677 (34.2%) | 5743 (26.8%) | 6435 (23.8%) |
| 2 | 12415 (1.8%) | 568 (4.1%) | 1407 (4.5%) | 342 (1.6%) | 279 (1.0%) |
| missing | 432013 (64.1%) | 7913 (56.9%) | 17597 (56.3%) | 12374 (57.7%) | 12059 (44.7%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 103607 (15.4%) | 3010 (21.6%) | 6922 (22.2%) | 2942 (13.7%) | 3935 (14.6%) |
| 2 | 70757 (10.5%) | 1606 (11.5%) | 3751 (12.0%) | 2801 (13.1%) | 2500 (9.3%) |
| missing | 444474 (66.0%) | 8484 (61.0%) | 19008 (60.8%) | 12716 (59.3%) | 12338 (45.7%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 4.86 (4.00) | 6.56 (3.69) | 6.79 (3.86) | 0.515 (0.500) | 0.602 (0.490) |
| Median [Min, Max] | 4.00 [0, 77.0] | 6.00 [1.00, 25.0] | 6.00 [1.00, 42.0] | 1.00 [0, 1.00] | 1.00 [0, 1.00] |
| Missing | 82659 (12.3%) | 1670 (12.0%) | 1816 (5.8%) | 4435 (20.7%) | 9113 (33.8%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 1.10 (1.29) | 1.63 (1.38) | 1.64 (1.37) | 1.10 (1.14) | 1.35 (1.36) |
| Median [Min, Max] | 1.00 [0, 20.0] | 2.00 [0, 10.0] | 2.00 [0, 12.0] | 1.00 [0, 8.00] | 1.00 [0, 8.00] |
| Missing | 82677 (12.3%) | 1670 (12.0%) | 1816 (5.8%) | 4435 (20.7%) | 9113 (33.8%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 201812 (29.9%) | 10344 (74.4%) | 23435 (75.0%) | 3928 (18.3%) | 2439 (9.0%) |
| rudimentary | 41784 (6.2%) | 55 (0.4%) | 589 (1.9%) | 268 (1.2%) | 1163 (4.3%) |
| improved | 338292 (50.2%) | 1829 (13.1%) | 5262 (16.8%) | 12810 (59.7%) | 14200 (52.6%) |
| missing | 36950 (5.5%) | 872 (6.3%) | 395 (1.3%) | 1453 (6.8%) | 971 (3.6%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 390913 (58.0%) | 11955 (86.0%) | 27471 (87.9%) | 15705 (73.2%) | 9491 (35.2%) |
| improved | 189745 (28.2%) | 54 (0.4%) | 1434 (4.6%) | 1299 (6.1%) | 8393 (31.1%) |
| missing | 38180 (5.7%) | 1091 (7.8%) | 776 (2.5%) | 1455 (6.8%) | 889 (3.3%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 466121 (69.2%) | 12233 (88.0%) | 29014 (92.9%) | 18459 (86.1%) | 18773 (69.5%) |
| no | 140205 (20.8%) | 751 (5.4%) | 627 (2.0%) | 0 (0%) | 0 (0%) |
| yes | 12512 (1.9%) | 116 (0.8%) | 40 (0.1%) | 0 (0%) | 0 (0%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Cooking fuel |  |  |  |  |  |
| solid | 330182 (49.0%) | 11076 (79.6%) | 26080 (83.5%) | 0 (0%) | 0 (0%) |
| clean | 54220 (8.0%) | 998 (7.2%) | 1588 (5.1%) | 0 (0%) | 0 (0%) |
| missing | 234436 (34.8%) | 1026 (7.4%) | 2013 (6.4%) | 18459 (86.1%) | 18773 (69.5%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Type of roof |  |  |  |  |  |
| unimproved | 104905 (15.6%) | 5399 (38.8%) | 16771 (53.7%) | 5219 (24.3%) | 5844 (21.6%) |
| improved | 464907 (69.0%) | 4435 (31.9%) | 8187 (26.2%) | 10066 (46.9%) | 11509 (42.6%) |
| missing | 49026 (7.3%) | 3266 (23.5%) | 4723 (15.1%) | 3174 (14.8%) | 1420 (5.3%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Type of wall |  |  |  |  |  |
| natural | 79152 (11.7%) | 1421 (10.2%) | 14637 (46.8%) | 19 (0.1%) | 0 (0%) |
| rudimentary | 115247 (17.1%) | 1094 (7.9%) | 3212 (10.3%) | 0 (0%) | 0 (0%) |
| finished | 349663 (51.9%) | 9716 (69.9%) | 10210 (32.7%) | 0 (0%) | 0 (0%) |
| missing | 74776 (11.1%) | 869 (6.2%) | 1622 (5.2%) | 18440 (86.0%) | 18773 (69.5%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Animal ownership |  |  |  |  |  |
| 0 | 247707 (36.8%) | 9383 (67.5%) | 9105 (29.1%) | 0 (0%) | 0 (0%) |
| 1 | 240919 (35.8%) | 2848 (20.5%) | 20311 (65.0%) | 0 (0%) | 0 (0%) |
| missing | 130212 (19.3%) | 869 (6.2%) | 265 (0.8%) | 18459 (86.1%) | 18773 (69.5%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 151029 (22.4%) | 362 (2.6%) | 6876 (22.0%) | 4317 (20.1%) | 5456 (20.2%) |
| WealthQ2 | 152444 (22.6%) | 5361 (38.5%) | 7423 (23.8%) | 4679 (21.8%) | 4520 (16.7%) |
| WealthQ3 | 145816 (21.6%) | 3655 (26.3%) | 7654 (24.5%) | 4192 (19.5%) | 4183 (15.5%) |
| WealthQ4 | 141921 (21.1%) | 2861 (20.6%) | 7478 (23.9%) | 3824 (17.8%) | 3725 (13.8%) |
| missing | 27628 (4.1%) | 861 (6.2%) | 250 (0.8%) | 1447 (6.7%) | 889 (3.3%) |
| Missing | 55051 (8.2%) | 809 (5.8%) | 1566 (5.0%) | 2988 (13.9%) | 8224 (30.5%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 3.73 (6.33) | 2.47 (1.63) | 2.75 (2.07) | 21.4 (11.7) | 29.1 (9.42) |
| Median [Min, Max] | 2.00 [1.00, 96.0] | 2.00 [1.00, 55.0] | 2.00 [1.00, 72.0] | 11.0 [11.0, 96.0] | 34.0 [11.0, 96.0] |
| Missing | 89724 (13.3%) | 1670 (12.0%) | 1823 (5.8%) | 4436 (20.7%) | 9113 (33.8%) |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | DRC | Gambia | Ghana | Guinea Bissau | Nigeria |
| Tunisia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Georgia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Kosovo | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Maternal education |  |  |  |  |  |
| none | 6757 (21.4%) | 7718 (54.4%) | 5001 (29.9%) | 5523 (47.6%) | 0 (0%) |
| primary | 11072 (35.1%) | 1935 (13.6%) | 2536 (15.2%) | 4274 (36.9%) | 17174 (19.9%) |
| secondary | 3948 (12.5%) | 3296 (23.2%) | 5382 (32.2%) | 636 (5.5%) | 10781 (12.5%) |
| higher | 8290 (26.3%) | 0 (0%) | 3006 (18.0%) | 359 (3.1%) | 30903 (35.7%) |
| missing | 21 (0.1%) | 369 (2.6%) | 325 (1.9%) | 136 (1.2%) | 1872 (2.2%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 42.0 (13.6) | 29.9 (6.99) | 46.9 (15.0) | 48.1 (14.2) | 31.1 (7.32) |
| Median [Min, Max] | 40.0 [15.0, 94.0] | 29.0 [15.0, 49.0] | 45.0 [15.0, 94.0] | 47.0 [15.0, 94.0] | 30.0 [15.0, 49.0] |
| Missing | 1446 (4.6%) | 4484 (31.6%) | 843 (5.0%) | 823 (7.1%) | 48065 (55.6%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 888 (520) | 931 (522) | 912 (527) | 935 (534) | 902 (526) |
| Median [Min, Max] | 872 [0, 1830] | 950 [0, 1830] | 921 [0, 1830] | 942 [1.00, 1830] | 907 [0, 1830] |
| Missing | 10065 (31.9%) | 4271 (30.1%) | 7980 (47.7%) | 4133 (35.6%) | 47608 (55.0%) |
| Child sex |  |  |  |  |  |
| 1 | 10633 (33.7%) | 5156 (36.4%) | 4388 (26.2%) | 3831 (33.0%) | 20040 (23.2%) |
| 2 | 10844 (34.4%) | 5000 (35.3%) | 4515 (27.0%) | 3708 (32.0%) | 19859 (23.0%) |
| Missing | 10033 (31.8%) | 4022 (28.4%) | 7834 (46.8%) | 4059 (35.0%) | 46585 (53.9%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.41 (0.933) | 2.43 (0.961) | 2.23 (0.927) | 2.22 (0.879) | 0 (0%) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 0 [0, 0] |
| Missing | 10556 (33.5%) | 4564 (32.2%) | 7735 (46.2%) | 4359 (37.6%) | 86484 (100%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Rural | 21702 (68.9%) | 7412 (52.3%) | 8823 (52.7%) | 8005 (69.0%) | 44207 (51.1%) |
| Urban | 8386 (26.6%) | 5906 (41.7%) | 7427 (44.4%) | 2923 (25.2%) | 16523 (19.1%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 12122 (38.5%) | 5565 (39.3%) | 5099 (30.5%) | 4084 (35.2%) | 22103 (25.6%) |
| 2 | 718 (2.3%) | 91 (0.6%) | 97 (0.6%) | 274 (2.4%) | 896 (1.0%) |
| missing | 17248 (54.7%) | 7662 (54.0%) | 11054 (66.0%) | 6570 (56.6%) | 37731 (43.6%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 7809 (24.8%) | 3334 (23.5%) | 3066 (18.3%) | 2582 (22.3%) | 13207 (15.3%) |
| 2 | 4306 (13.7%) | 2228 (15.7%) | 2033 (12.1%) | 1502 (13.0%) | 8894 (10.3%) |
| missing | 17973 (57.0%) | 7756 (54.7%) | 11151 (66.6%) | 6844 (59.0%) | 38629 (44.7%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 5.61 (2.92) | 12.5 (10.8) | 5.30 (3.15) | 8.06 (5.04) | 0.678 (0.467) |
| Median [Min, Max] | 5.00 [0, 30.0] | 9.00 [1.00, 77.0] | 5.00 [1.00, 32.0] | 7.00 [1.00, 50.0] | 1.00 [0, 1.00] |
| Missing | 1422 (4.5%) | 1205 (8.5%) | 803 (4.8%) | 791 (6.8%) | 27600 (31.9%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 1.45 (1.18) | 2.57 (2.60) | 0.987 (1.11) | 1.62 (1.60) | 1.57 (1.46) |
| Median [Min, Max] | 2.00 [0, 7.00] | 2.00 [0, 20.0] | 1.00 [0, 8.00] | 1.00 [0, 12.0] | 1.00 [0, 8.00] |
| Missing | 1440 (4.6%) | 1205 (8.5%) | 803 (4.8%) | 791 (6.8%) | 27600 (31.9%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 25804 (81.9%) | 2500 (17.6%) | 1845 (11.0%) | 6569 (56.6%) | 22172 (25.6%) |
| rudimentary | 168 (0.5%) | 13 (0.1%) | 38 (0.2%) | 1 (0.0%) | 528 (0.6%) |
| improved | 4041 (12.8%) | 10390 (73.3%) | 14042 (83.9%) | 4218 (36.4%) | 35746 (41.3%) |
| missing | 75 (0.2%) | 415 (2.9%) | 325 (1.9%) | 140 (1.2%) | 2284 (2.6%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 29165 (92.6%) | 12173 (85.9%) | 13110 (78.3%) | 10546 (90.9%) | 45161 (52.2%) |
| improved | 601 (1.9%) | 191 (1.3%) | 2570 (15.4%) | 92 (0.8%) | 13704 (15.8%) |
| missing | 322 (1.0%) | 954 (6.7%) | 570 (3.4%) | 290 (2.5%) | 1865 (2.2%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 30088 (95.5%) | 9556 (67.4%) | 10729 (64.1%) | 9081 (78.3%) | 60730 (70.2%) |
| no | 0 (0%) | 3604 (25.4%) | 5425 (32.4%) | 1840 (15.9%) | 0 (0%) |
| yes | 0 (0%) | 158 (1.1%) | 96 (0.6%) | 7 (0.1%) | 0 (0%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Cooking fuel |  |  |  |  |  |
| solid | 23190 (73.6%) | 9675 (68.2%) | 8389 (50.1%) | 8780 (75.7%) | 47938 (55.4%) |
| clean | 6113 (19.4%) | 2524 (17.8%) | 4733 (28.3%) | 1775 (15.3%) | 10593 (12.2%) |
| missing | 785 (2.5%) | 1119 (7.9%) | 3128 (18.7%) | 373 (3.2%) | 2199 (2.5%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Type of roof |  |  |  |  |  |
| unimproved | 20825 (66.1%) | 1612 (11.4%) | 1085 (6.5%) | 2121 (18.3%) | 10212 (11.8%) |
| improved | 8944 (28.4%) | 11325 (79.9%) | 14786 (88.3%) | 8674 (74.8%) | 47145 (54.5%) |
| missing | 319 (1.0%) | 381 (2.7%) | 379 (2.3%) | 133 (1.1%) | 3373 (3.9%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Type of wall |  |  |  |  |  |
| natural | 4126 (13.1%) | 20 (0.1%) | 3671 (21.9%) | 1115 (9.6%) | 11124 (12.9%) |
| rudimentary | 17588 (55.8%) | 3996 (28.2%) | 550 (3.3%) | 9172 (79.1%) | 14306 (16.5%) |
| finished | 8098 (25.7%) | 8926 (63.0%) | 11608 (69.4%) | 510 (4.4%) | 33231 (38.4%) |
| missing | 276 (0.9%) | 376 (2.7%) | 421 (2.5%) | 131 (1.1%) | 2069 (2.4%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Animal ownership |  |  |  |  |  |
| 0 | 18096 (57.4%) | 3528 (24.9%) | 8066 (48.2%) | 2401 (20.7%) | 0 (0%) |
| 1 | 11972 (38.0%) | 9437 (66.6%) | 7868 (47.0%) | 8406 (72.5%) | 0 (0%) |
| missing | 20 (0.1%) | 353 (2.5%) | 316 (1.9%) | 121 (1.0%) | 60730 (70.2%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 7316 (23.2%) | 3592 (25.3%) | 4148 (24.8%) | 2563 (22.1%) | 19784 (22.9%) |
| WealthQ2 | 7627 (24.2%) | 3509 (24.7%) | 4073 (24.3%) | 2641 (22.8%) | 14834 (17.2%) |
| WealthQ3 | 7650 (24.3%) | 3122 (22.0%) | 3938 (23.5%) | 2827 (24.4%) | 12699 (14.7%) |
| WealthQ4 | 7475 (23.7%) | 2750 (19.4%) | 3775 (22.6%) | 2776 (23.9%) | 11567 (13.4%) |
| missing | 20 (0.1%) | 345 (2.4%) | 316 (1.9%) | 121 (1.0%) | 1846 (2.1%) |
| Missing | 1422 (4.5%) | 860 (6.1%) | 487 (2.9%) | 670 (5.8%) | 25754 (29.8%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 2.18 (1.12) | 5.41 (4.50) | 2.10 (1.48) | 4.10 (2.70) | 2.73 (1.85) |
| Median [Min, Max] | 2.00 [1.00, 9.00] | 4.00 [1.00, 75.0] | 2.00 [1.00, 44.0] | 4.00 [1.00, 80.0] | 2.00 [1.00, 44.0] |
| Missing | 1442 (4.6%) | 1205 (8.5%) | 803 (4.8%) | 791 (6.8%) | 27628 (31.9%) |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | Sao Tome Prin | Sierra Leone | Togo | Lesotho | Madagascar |
| Tunisia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Georgia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Kosovo | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Maternal education |  |  |  |  |  |
| none | 283 (6.8%) | 12371 (57.7%) | 3429 (32.7%) | 0 (0%) | 5868 (23.3%) |
| primary | 1935 (46.2%) | 2217 (10.3%) | 2936 (28.0%) | 5885 (50.9%) | 10601 (42.1%) |
| secondary | 1431 (34.2%) | 2301 (10.7%) | 3315 (31.6%) | 2939 (25.4%) | 5716 (22.7%) |
| higher | 157 (3.7%) | 2825 (13.2%) | 0 (0%) | 836 (7.2%) | 0 (0%) |
| missing | 324 (7.7%) | 302 (1.4%) | 521 (5.0%) | 1583 (13.7%) | 2308 (9.2%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 43.0 (14.9) | 44.3 (14.3) | 44.6 (14.6) | 49.7 (17.2) | 41.9 (14.7) |
| Median [Min, Max] | 40.0 [14.0, 94.0] | 42.0 [15.0, 94.0] | 42.0 [14.0, 94.0] | 48.0 [11.0, 94.0] | 40.0 [15.0, 94.0] |
| Missing | 361 (8.6%) | 1782 (8.3%) | 788 (7.5%) | 1904 (16.5%) | 2952 (11.7%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 931 (522) | 901 (523) | 909 (526) | 944 (511) | 900 (530) |
| Median [Min, Max] | 916 [5.00, 1830] | 893 [-12.0, 1840] | 904 [0, 1830] | 957 [2.00, 1820] | 899 [0, 1830] |
| Missing | 2351 (56.1%) | 9664 (45.1%) | 5536 (52.8%) | 8312 (71.9%) | 12318 (48.9%) |
| Child sex |  |  |  |  |  |
| 1 | 953 (22.8%) | 5899 (27.5%) | 2561 (24.4%) | 1768 (15.3%) | 6768 (26.9%) |
| 2 | 906 (21.6%) | 5879 (27.4%) | 2470 (23.6%) | 1792 (15.5%) | 6587 (26.2%) |
| Missing | 2329 (55.6%) | 9654 (45.0%) | 5448 (52.0%) | 8000 (69.2%) | 11820 (47.0%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.16 (0.847) | 2.15 (0.872) | 2.24 (0.890) | 1.86 (0.803) | 2.24 (0.976) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] |
| Missing | 2320 (55.4%) | 9513 (44.4%) | 5241 (50.0%) | 8599 (74.4%) | 12109 (48.1%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Rural | 1754 (41.9%) | 13370 (62.4%) | 6399 (61.1%) | 7869 (68.1%) | 17975 (71.4%) |
| Urban | 2376 (56.7%) | 6646 (31.0%) | 3802 (36.3%) | 3374 (29.2%) | 6518 (25.9%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 973 (23.2%) | 6766 (31.6%) | 2732 (26.1%) | 1830 (15.8%) | 7252 (28.8%) |
| 2 | 103 (2.5%) | 230 (1.1%) | 210 (2.0%) | 98 (0.8%) | 443 (1.8%) |
| missing | 3054 (72.9%) | 13020 (60.8%) | 7259 (69.3%) | 9315 (80.6%) | 16798 (66.7%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 489 (11.7%) | 4008 (18.7%) | 1879 (17.9%) | 737 (6.4%) | 5095 (20.2%) |
| 2 | 482 (11.5%) | 2752 (12.8%) | 853 (8.1%) | 1092 (9.4%) | 2157 (8.6%) |
| missing | 3159 (75.4%) | 13256 (61.9%) | 7469 (71.3%) | 9414 (81.4%) | 17241 (68.5%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 4.28 (2.21) | 5.39 (2.93) | 5.00 (3.25) | 4.25 (2.69) | 5.10 (2.76) |
| Median [Min, Max] | 4.00 [1.00, 16.0] | 5.00 [1.00, 27.0] | 5.00 [1.00, 23.0] | 4.00 [1.00, 20.0] | 5.00 [1.00, 30.0] |
| Missing | 360 (8.6%) | 1712 (8.0%) | 766 (7.3%) | 1883 (16.3%) | 2929 (11.6%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 0.696 (0.823) | 1.06 (1.11) | 0.935 (1.13) | 0.538 (0.820) | 1.43 (0.740) |
| Median [Min, Max] | 0 [0, 4.00] | 1.00 [0, 7.00] | 1.00 [0, 7.00] | 0 [0, 5.00] | 1.00 [1.00, 8.00] |
| Missing | 360 (8.6%) | 1712 (8.0%) | 766 (7.3%) | 1883 (16.3%) | 2929 (11.6%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 48 (1.1%) | 11135 (52.0%) | 1172 (11.2%) | 3241 (28.0%) | 2322 (9.2%) |
| rudimentary | 2500 (59.7%) | 58 (0.3%) | 2 (0.0%) | 32 (0.3%) | 13438 (53.4%) |
| improved | 1277 (30.5%) | 8459 (39.5%) | 8527 (81.4%) | 6370 (55.1%) | 6253 (24.8%) |
| missing | 305 (7.3%) | 364 (1.7%) | 500 (4.8%) | 1600 (13.8%) | 2480 (9.9%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 2127 (50.8%) | 19107 (89.2%) | 8720 (83.2%) | 1820 (15.7%) | 22023 (87.5%) |
| improved | 1627 (38.8%) | 150 (0.7%) | 844 (8.1%) | 1832 (15.8%) | 176 (0.7%) |
| missing | 376 (9.0%) | 759 (3.5%) | 637 (6.1%) | 7591 (65.7%) | 2294 (9.1%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 2233 (53.3%) | 15930 (74.3%) | 6304 (60.2%) | 11243 (97.3%) | 17020 (67.6%) |
| no | 1807 (43.1%) | 3759 (17.5%) | 3882 (37.0%) | 0 (0%) | 7334 (29.1%) |
| yes | 90 (2.1%) | 327 (1.5%) | 15 (0.1%) | 0 (0%) | 139 (0.6%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Cooking fuel |  |  |  |  |  |
| solid | 1758 (42.0%) | 14988 (69.9%) | 5269 (50.3%) | 0 (0%) | 17777 (70.6%) |
| clean | 1919 (45.8%) | 4144 (19.3%) | 3473 (33.1%) | 0 (0%) | 4314 (17.1%) |
| missing | 453 (10.8%) | 884 (4.1%) | 1459 (13.9%) | 11243 (97.3%) | 2402 (9.5%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Type of roof |  |  |  |  |  |
| unimproved | 10 (0.2%) | 2822 (13.2%) | 922 (8.8%) | 2768 (23.9%) | 13896 (55.2%) |
| improved | 3806 (90.9%) | 16647 (77.7%) | 8733 (83.3%) | 6907 (59.7%) | 7176 (28.5%) |
| missing | 314 (7.5%) | 547 (2.6%) | 546 (5.2%) | 1568 (13.6%) | 3421 (13.6%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Type of wall |  |  |  |  |  |
| natural | 0 (0%) | 6387 (29.8%) | 1720 (16.4%) | 484 (4.2%) | 9538 (37.9%) |
| rudimentary | 48 (1.1%) | 4138 (19.3%) | 2029 (19.4%) | 3159 (27.3%) | 4536 (18.0%) |
| finished | 3778 (90.2%) | 9128 (42.6%) | 5932 (56.6%) | 6008 (52.0%) | 7211 (28.6%) |
| missing | 304 (7.3%) | 363 (1.7%) | 520 (5.0%) | 1592 (13.8%) | 3208 (12.7%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Animal ownership |  |  |  |  |  |
| 0 | 2237 (53.4%) | 10197 (47.6%) | 4663 (44.5%) | 4439 (38.4%) | 6827 (27.1%) |
| 1 | 1588 (37.9%) | 9494 (44.3%) | 5050 (48.2%) | 5236 (45.3%) | 15416 (61.2%) |
| missing | 305 (7.3%) | 325 (1.5%) | 488 (4.7%) | 1568 (13.6%) | 2250 (8.9%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 957 (22.9%) | 4442 (20.7%) | 2293 (21.9%) | 2440 (21.1%) | 5855 (23.3%) |
| WealthQ2 | 969 (23.1%) | 5621 (26.2%) | 2309 (22.0%) | 2427 (21.0%) | 5912 (23.5%) |
| WealthQ3 | 953 (22.8%) | 5091 (23.8%) | 2537 (24.2%) | 2466 (21.3%) | 5442 (21.6%) |
| WealthQ4 | 949 (22.7%) | 4566 (21.3%) | 2574 (24.6%) | 2344 (20.3%) | 5037 (20.0%) |
| missing | 302 (7.2%) | 296 (1.4%) | 488 (4.7%) | 1566 (13.5%) | 2247 (8.9%) |
| Missing | 58 (1.4%) | 1416 (6.6%) | 278 (2.7%) | 317 (2.7%) | 682 (2.7%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 2.11 (1.04) | 2.44 (1.47) | 2.24 (1.96) | 1.77 (1.88) | 1.55 (1.28) |
| Median [Min, Max] | 2.00 [1.00, 14.0] | 2.00 [1.00, 34.0] | 2.00 [1.00, 80.0] | 2.00 [1.00, 71.0] | 1.00 [1.00, 80.0] |
| Missing | 360 (8.6%) | 1715 (8.0%) | 766 (7.3%) | 1883 (16.3%) | 2929 (11.6%) |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | Zimbabwe | Paraguay | Suriname | Bangladesh | Nepal |
| Tunisia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Georgia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Kosovo | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Maternal education |  |  |  |  |  |
| none | 587 (4.2%) | 0 (0%) | 707 (6.4%) | 18707 (26.9%) | 5613 (38.5%) |
| primary | 4129 (29.5%) | 321 (2.4%) | 2150 (19.6%) | 16640 (23.9%) | 0 (0%) |
| secondary | 6274 (44.9%) | 3344 (25.0%) | 3471 (31.6%) | 22009 (31.6%) | 4757 (32.6%) |
| higher | 1513 (10.8%) | 4639 (34.7%) | 2612 (23.8%) | 8449 (12.1%) | 3090 (21.2%) |
| missing | 925 (6.6%) | 716 (5.4%) | 1872 (17.1%) | 3177 (4.6%) | 928 (6.4%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 44.9 (16.0) | 0 (0%) | 48.4 (14.5) | 47.1 (14.2) | 46.8 (15.0) |
| Median [Min, Max] | 42.0 [15.0, 94.0] | 0 [0, 0] | 48.0 [16.0, 94.0] | 46.0 [15.0, 94.0] | 46.0 [16.0, 94.0] |
| Missing | 1497 (10.7%) | 13371 (100%) | 1771 (16.1%) | 3787 (5.4%) | 340 (2.3%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 928 (529) | 914 (519) | 948 (514) | 916 (525) | 952 (515) |
| Median [Min, Max] | 934 [3.00, 1830] | 907 [3.00, 1830] | 962 [1.00, 1830] | 919 [0, 1830] | 978 [0, 1830] |
| Missing | 7879 (56.4%) | 8696 (65.0%) | 6752 (61.5%) | 46456 (66.8%) | 7917 (54.3%) |
| Child sex |  |  |  |  |  |
| 1 | 3103 (22.2%) | 2478 (18.5%) | 2452 (22.3%) | 12703 (18.3%) | 3564 (24.5%) |
| 2 | 3120 (22.3%) | 2338 (17.5%) | 2202 (20.1%) | 11985 (17.2%) | 3185 (21.9%) |
| Missing | 7754 (55.5%) | 8555 (64.0%) | 6325 (57.6%) | 44869 (64.5%) | 7826 (53.7%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.07 (0.815) | 1.99 (0.935) | 1.99 (0.835) | 1.75 (0.677) | 1.73 (0.707) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] |
| Missing | 8131 (58.2%) | 12843 (96.1%) | 7081 (64.5%) | 41611 (59.8%) | 7328 (50.3%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Rural | 8696 (62.2%) | 4071 (30.4%) | 4409 (40.2%) | 55563 (79.9%) | 6331 (43.4%) |
| Urban | 4732 (33.9%) | 4949 (37.0%) | 6403 (58.3%) | 13419 (19.3%) | 8057 (55.3%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 3530 (25.3%) | 2691 (20.1%) | 2193 (20.0%) | 13046 (18.8%) | 3491 (24.0%) |
| 2 | 56 (0.4%) | 124 (0.9%) | 257 (2.3%) | 598 (0.9%) | 268 (1.8%) |
| missing | 9842 (70.4%) | 6205 (46.4%) | 8362 (76.2%) | 55338 (79.6%) | 10629 (72.9%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 1769 (12.7%) | 1160 (8.7%) | 706 (6.4%) | 10832 (15.6%) | 3211 (22.0%) |
| 2 | 1761 (12.6%) | 1531 (11.5%) | 1486 (13.5%) | 2213 (3.2%) | 280 (1.9%) |
| missing | 9898 (70.8%) | 6329 (47.3%) | 8620 (78.5%) | 55937 (80.4%) | 10897 (74.8%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 4.29 (2.39) | 0.437 (0.496) | 4.88 (3.09) | 4.43 (1.97) | 4.78 (2.49) |
| Median [Min, Max] | 4.00 [1.00, 20.0] | 0 [0, 1.00] | 4.00 [1.00, 32.0] | 4.00 [1.00, 29.0] | 4.00 [1.00, 28.0] |
| Missing | 1470 (10.5%) | 5046 (37.7%) | 1760 (16.0%) | 3733 (5.4%) | 332 (2.3%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 0.728 (0.878) | 0.837 (0.871) | 0.874 (1.13) | 0.492 (0.722) | 0.710 (0.910) |
| Median [Min, Max] | 0 [0, 5.00] | 1.00 [0, 5.00] | 1.00 [0, 9.00] | 0 [0, 6.00] | 0 [0, 8.00] |
| Missing | 1470 (10.5%) | 5046 (37.7%) | 1760 (16.0%) | 3733 (5.4%) | 332 (2.3%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 2828 (20.2%) | 1418 (10.6%) | 146 (1.3%) | 42755 (61.5%) | 8253 (56.6%) |
| rudimentary | 48 (0.3%) | 123 (0.9%) | 1355 (12.3%) | 644 (0.9%) | 185 (1.3%) |
| improved | 9607 (68.7%) | 6771 (50.6%) | 7599 (69.2%) | 22412 (32.2%) | 5791 (39.7%) |
| missing | 945 (6.8%) | 708 (5.3%) | 1712 (15.6%) | 3171 (4.6%) | 159 (1.1%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 8139 (58.2%) | 5444 (40.7%) | 440 (4.0%) | 56043 (80.6%) | 8937 (61.3%) |
| improved | 4308 (30.8%) | 2880 (21.5%) | 8627 (78.6%) | 9747 (14.0%) | 5225 (35.8%) |
| missing | 981 (7.0%) | 696 (5.2%) | 1745 (15.9%) | 3192 (4.6%) | 226 (1.6%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 13321 (95.3%) | 9020 (67.5%) | 10746 (97.9%) | 14000 (20.1%) | 9095 (62.4%) |
| no | 80 (0.6%) | 0 (0%) | 46 (0.4%) | 52792 (75.9%) | 4272 (29.3%) |
| yes | 27 (0.2%) | 0 (0%) | 20 (0.2%) | 2190 (3.1%) | 1021 (7.0%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Cooking fuel |  |  |  |  |  |
| solid | 8214 (58.8%) | 3409 (25.5%) | 406 (3.7%) | 56252 (80.9%) | 9003 (61.8%) |
| clean | 96 (0.7%) | 4855 (36.3%) | 83 (0.8%) | 21 (0.0%) | 16 (0.1%) |
| missing | 5118 (36.6%) | 756 (5.7%) | 10323 (94.0%) | 12709 (18.3%) | 5369 (36.8%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Type of roof |  |  |  |  |  |
| unimproved | 2620 (18.7%) | 395 (3.0%) | 104 (0.9%) | 617 (0.9%) | 1238 (8.5%) |
| improved | 9853 (70.5%) | 7879 (58.9%) | 9080 (82.7%) | 65121 (93.6%) | 12928 (88.7%) |
| missing | 955 (6.8%) | 746 (5.6%) | 1628 (14.8%) | 3244 (4.7%) | 222 (1.5%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Type of wall |  |  |  |  |  |
| natural | 1282 (9.2%) | 222 (1.7%) | 222 (2.0%) | 9100 (13.1%) | 810 (5.6%) |
| rudimentary | 49 (0.4%) | 559 (4.2%) | 410 (3.7%) | 33577 (48.3%) | 6763 (46.4%) |
| finished | 11076 (79.2%) | 7490 (56.0%) | 8327 (75.8%) | 23063 (33.2%) | 6429 (44.1%) |
| missing | 1021 (7.3%) | 749 (5.6%) | 1853 (16.9%) | 3242 (4.7%) | 386 (2.6%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Animal ownership |  |  |  |  |  |
| 0 | 4792 (34.3%) | 0 (0%) | 8156 (74.3%) | 26397 (38.0%) | 3999 (27.4%) |
| 1 | 7709 (55.2%) | 0 (0%) | 1031 (9.4%) | 39291 (56.5%) | 10236 (70.2%) |
| missing | 927 (6.6%) | 9020 (67.5%) | 1625 (14.8%) | 3294 (4.7%) | 153 (1.0%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 3203 (22.9%) | 2062 (15.4%) | 2474 (22.5%) | 16523 (23.8%) | 3460 (23.7%) |
| WealthQ2 | 3179 (22.7%) | 2024 (15.1%) | 2317 (21.1%) | 16341 (23.5%) | 3735 (25.6%) |
| WealthQ3 | 3106 (22.2%) | 2210 (16.5%) | 2244 (20.4%) | 16374 (23.5%) | 3539 (24.3%) |
| WealthQ4 | 3019 (21.6%) | 2029 (15.2%) | 2184 (19.9%) | 16586 (23.8%) | 3509 (24.1%) |
| missing | 921 (6.6%) | 695 (5.2%) | 1593 (14.5%) | 3158 (4.5%) | 145 (1.0%) |
| Missing | 549 (3.9%) | 4351 (32.5%) | 167 (1.5%) | 575 (0.8%) | 187 (1.3%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 1.90 (0.933) | 2.10 (1.67) | 2.29 (1.07) | 2.15 (1.09) | 2.25 (1.22) |
| Median [Min, Max] | 2.00 [1.00, 9.00] | 2.00 [1.00, 82.0] | 2.00 [1.00, 11.0] | 2.00 [1.00, 20.0] | 2.00 [1.00, 18.0] |
| Missing | 1470 (10.5%) | 5050 (37.8%) | 1763 (16.1%) | 3733 (5.4%) | 332 (2.3%) |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | Pakistan | Kiribati | Laos | Mongolia | Tonga |
| Tunisia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Georgia | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Kosovo | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Maternal education |  |  |  |  |  |
| none | 29871 (39.7%) | 267 (6.2%) | 5193 (18.8%) | 0 (0%) | 0 (0%) |
| primary | 13563 (18.0%) | 755 (17.7%) | 10889 (39.4%) | 1213 (7.5%) | 213 (6.4%) |
| secondary | 8155 (10.8%) | 1219 (28.5%) | 5094 (18.4%) | 1726 (10.7%) | 671 (20.2%) |
| higher | 19615 (26.1%) | 1529 (35.8%) | 4890 (17.7%) | 12280 (76.3%) | 2018 (60.7%) |
| missing | 2180 (2.9%) | 227 (5.3%) | 1030 (3.7%) | 705 (4.4%) | 283 (8.5%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 48.4 (14.1) | 45.1 (13.3) | 46.1 (13.7) | 45.6 (14.1) | 52.4 (15.3) |
| Median [Min, Max] | 48.0 [15.0, 94.0] | 44.0 [16.0, 90.0] | 45.0 [15.0, 94.0] | 44.0 [15.0, 94.0] | 51.0 [18.0, 93.0] |
| Missing | 4046 (5.4%) | 484 (11.3%) | 1563 (5.7%) | 872 (5.4%) | 396 (11.9%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 898 (526) | 889 (530) | 914 (519) | 933 (530) | 954 (523) |
| Median [Min, Max] | 892 [-11.0, 1840] | 872 [1.00, 1830] | 926 [0, 1820] | 959 [3.00, 1820] | 958 [3.00, 1820] |
| Missing | 35416 (47.1%) | 2103 (49.2%) | 15916 (57.6%) | 9995 (62.1%) | 1976 (59.5%) |
| Child sex |  |  |  |  |  |
| 1 | 21836 (29.0%) | 1106 (25.9%) | 6015 (21.8%) | 3238 (20.1%) | 740 (22.3%) |
| 2 | 20572 (27.4%) | 1083 (25.4%) | 5797 (21.0%) | 3031 (18.8%) | 638 (19.2%) |
| Missing | 32793 (43.6%) | 2083 (48.8%) | 15824 (57.3%) | 9816 (61.0%) | 1945 (58.5%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.15 (0.867) | 2.09 (0.872) | 1.94 (0.817) | 1.92 (0.678) | 2.16 (0.877) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] |
| Missing | 30014 (39.9%) | 2184 (51.1%) | 14223 (51.5%) | 9734 (60.5%) | 2159 (65.0%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Rural | 52517 (69.8%) | 2616 (61.2%) | 18888 (68.3%) | 7895 (49.1%) | 2351 (70.7%) |
| Urban | 20867 (27.7%) | 1381 (32.3%) | 8208 (29.7%) | 8029 (49.9%) | 834 (25.1%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 22203 (29.5%) | 924 (21.6%) | 6641 (24.0%) | 3369 (20.9%) | 641 (19.3%) |
| 2 | 1589 (2.1%) | 401 (9.4%) | 245 (0.9%) | 126 (0.8%) | 118 (3.6%) |
| missing | 49592 (65.9%) | 2672 (62.5%) | 20210 (73.1%) | 12429 (77.3%) | 2426 (73.0%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 11653 (15.5%) | 852 (19.9%) | 3347 (12.1%) | 2220 (13.8%) | 292 (8.8%) |
| 2 | 10543 (14.0%) | 72 (1.7%) | 3292 (11.9%) | 1147 (7.1%) | 349 (10.5%) |
| missing | 51188 (68.1%) | 3073 (71.9%) | 20457 (74.0%) | 12557 (78.1%) | 2544 (76.6%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 7.22 (3.93) | 6.37 (3.67) | 5.08 (2.34) | 3.78 (1.75) | 5.74 (3.16) |
| Median [Min, Max] | 6.00 [1.00, 45.0] | 6.00 [1.00, 24.0] | 5.00 [1.00, 23.0] | 4.00 [1.00, 15.0] | 5.00 [1.00, 21.0] |
| Missing | 3997 (5.3%) | 484 (11.3%) | 1552 (5.6%) | 863 (5.4%) | 391 (11.8%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 1.31 (1.43) | 1.03 (1.12) | 0.720 (0.944) | 0.597 (0.813) | 0.830 (1.05) |
| Median [Min, Max] | 1.00 [0, 11.0] | 1.00 [0, 6.00] | 0 [0, 7.00] | 0 [0, 5.00] | 0 [0, 5.00] |
| Missing | 3997 (5.3%) | 484 (11.3%) | 1552 (5.6%) | 863 (5.4%) | 391 (11.8%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 24986 (33.2%) | 316 (7.4%) | 2554 (9.2%) | 548 (3.4%) | 8 (0.2%) |
| rudimentary | 0 (0%) | 2319 (54.3%) | 10253 (37.1%) | 2346 (14.6%) | 84 (2.5%) |
| improved | 46159 (61.4%) | 1113 (26.1%) | 13217 (47.8%) | 5117 (31.8%) | 2824 (85.0%) |
| missing | 2239 (3.0%) | 249 (5.8%) | 1072 (3.9%) | 7913 (49.2%) | 269 (8.1%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 41785 (55.6%) | 2319 (54.3%) | 23883 (86.4%) | 9806 (61.0%) | 620 (18.7%) |
| improved | 29025 (38.6%) | 1457 (34.1%) | 1604 (5.8%) | 5404 (33.6%) | 2293 (69.0%) |
| missing | 2574 (3.4%) | 221 (5.2%) | 1609 (5.8%) | 714 (4.4%) | 272 (8.2%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 34016 (45.2%) | 2707 (63.4%) | 10287 (37.2%) | 15924 (99.0%) | 3085 (92.8%) |
| no | 35818 (47.6%) | 1250 (29.3%) | 16692 (60.4%) | 0 (0%) | 92 (2.8%) |
| yes | 3550 (4.7%) | 40 (0.9%) | 117 (0.4%) | 0 (0%) | 8 (0.2%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Cooking fuel |  |  |  |  |  |
| solid | 41592 (55.3%) | 1902 (44.5%) | 19274 (69.7%) | 9805 (61.0%) | 573 (17.2%) |
| clean | 252 (0.3%) | 1297 (30.4%) | 5131 (18.6%) | 1 (0.0%) | 33 (1.0%) |
| missing | 31540 (41.9%) | 798 (18.7%) | 2691 (9.7%) | 6118 (38.0%) | 2579 (77.6%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Type of roof |  |  |  |  |  |
| unimproved | 4737 (6.3%) | 2216 (51.9%) | 1023 (3.7%) | 725 (4.5%) | 98 (2.9%) |
| improved | 65859 (87.6%) | 1549 (36.3%) | 24840 (89.9%) | 7370 (45.8%) | 2830 (85.2%) |
| missing | 2788 (3.7%) | 232 (5.4%) | 1233 (4.5%) | 7829 (48.7%) | 257 (7.7%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Type of wall |  |  |  |  |  |
| natural | 9774 (13.0%) | 2126 (49.8%) | 123 (0.4%) | 0 (0%) | 3 (0.1%) |
| rudimentary | 909 (1.2%) | 1059 (24.8%) | 4692 (17.0%) | 880 (5.5%) | 1336 (40.2%) |
| finished | 60280 (80.2%) | 472 (11.0%) | 21175 (76.6%) | 7115 (44.2%) | 1593 (47.9%) |
| missing | 2421 (3.2%) | 340 (8.0%) | 1106 (4.0%) | 7929 (49.3%) | 253 (7.6%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Animal ownership |  |  |  |  |  |
| 0 | 36350 (48.3%) | 383 (9.0%) | 4885 (17.7%) | 8434 (52.4%) | 845 (25.4%) |
| 1 | 34811 (46.3%) | 3405 (79.7%) | 21189 (76.7%) | 6775 (42.1%) | 2087 (62.8%) |
| missing | 2223 (3.0%) | 209 (4.9%) | 1022 (3.7%) | 715 (4.4%) | 253 (7.6%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 17706 (23.5%) | 927 (21.7%) | 6991 (25.3%) | 3779 (23.5%) | 732 (22.0%) |
| WealthQ2 | 17735 (23.6%) | 929 (21.7%) | 6542 (23.7%) | 3821 (23.8%) | 733 (22.1%) |
| WealthQ3 | 17720 (23.6%) | 951 (22.3%) | 6400 (23.2%) | 3825 (23.8%) | 756 (22.8%) |
| WealthQ4 | 18043 (24.0%) | 981 (23.0%) | 6151 (22.3%) | 3797 (23.6%) | 711 (21.4%) |
| missing | 2180 (2.9%) | 209 (4.9%) | 1012 (3.7%) | 702 (4.4%) | 253 (7.6%) |
| Missing | 1817 (2.4%) | 275 (6.4%) | 540 (2.0%) | 161 (1.0%) | 138 (4.2%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 2.03 (1.40) | 2.18 (1.19) | 1.88 (1.15) | 1.57 (0.695) | 2.99 (2.60) |
| Median [Min, Max] | 2.00 [1.00, 82.0] | 2.00 [1.00, 33.0] | 2.00 [1.00, 90.0] | 1.00 [1.00, 6.00] | 3.00 [1.00, 77.0] |
| Missing | 4004 (5.3%) | 484 (11.3%) | 1552 (5.6%) | 7852 (48.8%) | 391 (11.8%) |

Descriptive statistics of covariates by country

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Var | Algeria | Iraq | Tunisia | Georgia | Kosovo |
| Tunisia | 0 (0%) | 0 (0%) | 12929 (100%) | 0 (0%) | 0 (0%) |
| Georgia | 0 (0%) | 0 (0%) | 0 (0%) | 14753 (100%) | 0 (0%) |
| Kosovo | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 7082 (100%) |
| Maternal education |  |  |  |  |  |
| none | 9487 (26.6%) | 5299 (19.3%) | 2512 (19.4%) | 56 (0.4%) | 155 (2.2%) |
| primary | 6342 (17.8%) | 10356 (37.6%) | 3892 (30.1%) | 1351 (9.2%) | 819 (11.6%) |
| secondary | 8232 (23.1%) | 4817 (17.5%) | 0 (0%) | 3592 (24.3%) | 916 (12.9%) |
| higher | 9949 (27.9%) | 6294 (22.9%) | 5678 (43.9%) | 7833 (53.1%) | 3727 (52.6%) |
| missing | 1451 (4.1%) | 311 (1.1%) | 785 (6.1%) | 1921 (13.0%) | 1437 (20.3%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Maternal age |  |  |  |  |  |
| Mean (SD) | 52.6 (14.5) | 46.9 (13.6) | 53.3 (14.4) | 57.9 (15.0) | 54.1 (13.5) |
| Median [Min, Max] | 51.0 [14.0, 94.0] | 45.0 [12.0, 93.0] | 52.0 [16.0, 94.0] | 59.0 [15.0, 94.0] | 54.0 [18.0, 93.0] |
| Missing | 1701 (4.8%) | 781 (2.8%) | 866 (6.7%) | 1873 (12.7%) | 1461 (20.6%) |
| Child age |  |  |  |  |  |
| Mean (SD) | 926 (524) | 919 (523) | 964 (523) | 945 (521) | 916 (531) |
| Median [Min, Max] | 938 [1.00, 1830] | 939 [0, 1830] | 990 [2.00, 1830] | 977 [4.00, 1820] | 922 [2.00, 1830] |
| Missing | 20832 (58.4%) | 10913 (39.6%) | 9511 (73.6%) | 12213 (82.8%) | 5544 (78.3%) |
| Child sex |  |  |  |  |  |
| 1 | 7822 (21.9%) | 8532 (31.0%) | 1798 (13.9%) | 1420 (9.6%) | 936 (13.2%) |
| 2 | 7402 (20.7%) | 8157 (29.6%) | 1676 (13.0%) | 1403 (9.5%) | 845 (11.9%) |
| Missing | 20457 (57.3%) | 10838 (39.4%) | 9455 (73.1%) | 11930 (80.9%) | 5301 (74.9%) |
| Birth order |  |  |  |  |  |
| Mean (SD) | 2.01 (0.779) | 2.23 (0.879) | 1.84 (0.683) | 0 (0%) | 1.85 (0.707) |
| Median [Min, Max] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 2.00 [1.00, 4.00] | 0 [0, 0] | 2.00 [1.00, 4.00] |
| Missing | 20337 (57.0%) | 10011 (36.4%) | 9381 (72.6%) | 14753 (100%) | 5336 (75.3%) |
| Urban/rural location |  |  |  |  |  |
| Missing | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Rural | 11523 (32.3%) | 9079 (33.0%) | 4090 (31.6%) | 7858 (53.3%) | 3390 (47.9%) |
| Urban | 23938 (67.1%) | 17998 (65.4%) | 8777 (67.9%) | 6895 (46.7%) | 3664 (51.7%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Ever breastfed |  |  |  |  |  |
| 1 | 7067 (19.8%) | 8780 (31.9%) | 1702 (13.2%) | 1279 (8.7%) | 853 (12.0%) |
| 2 | 1631 (4.6%) | 826 (3.0%) | 194 (1.5%) | 161 (1.1%) | 65 (0.9%) |
| missing | 26763 (75.0%) | 17471 (63.5%) | 10971 (84.9%) | 13313 (90.2%) | 6136 (86.6%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Currently breastfeeding |  |  |  |  |  |
| 1 | 3302 (9.3%) | 3724 (13.5%) | 667 (5.2%) | 488 (3.3%) | 369 (5.2%) |
| 2 | 3761 (10.5%) | 5056 (18.4%) | 1034 (8.0%) | 791 (5.4%) | 484 (6.8%) |
| missing | 28398 (79.6%) | 18297 (66.5%) | 11166 (86.4%) | 13474 (91.3%) | 6201 (87.6%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Number of household residents |  |  |  |  |  |
| Mean (SD) | 5.29 (2.36) | 7.34 (3.91) | 4.03 (1.71) | 3.53 (2.01) | 5.16 (2.50) |
| Median [Min, Max] | 5.00 [1.00, 30.0] | 6.00 [1.00, 39.0] | 4.00 [1.00, 13.0] | 3.00 [1.00, 15.0] | 5.00 [1.00, 22.0] |
| Missing | 1626 (4.6%) | 757 (2.8%) | 833 (6.4%) | 1850 (12.5%) | 1460 (20.6%) |
| Number of children under 5yrs |  |  |  |  |  |
| Mean (SD) | 0.714 (0.929) | 1.29 (1.36) | 0.441 (0.769) | 0.330 (0.697) | 0.513 (0.863) |
| Median [Min, Max] | 0 [0, 7.00] | 1.00 [0, 9.00] | 0 [0, 4.00] | 0 [0, 5.00] | 0 [0, 5.00] |
| Missing | 1626 (4.6%) | 757 (2.8%) | 833 (6.4%) | 1850 (12.5%) | 1460 (20.6%) |
| Type of flooring |  |  |  |  |  |
| unimproved | 324 (0.9%) | 647 (2.4%) | 40 (0.3%) | 31 (0.2%) | 4 (0.1%) |
| rudimentary | 0 (0%) | 21 (0.1%) | 5 (0.0%) | 5195 (35.2%) | 353 (5.0%) |
| improved | 33706 (94.5%) | 26045 (94.6%) | 12049 (93.2%) | 7204 (48.8%) | 5254 (74.2%) |
| missing | 1431 (4.0%) | 364 (1.3%) | 773 (6.0%) | 2323 (15.7%) | 1443 (20.4%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Cooking stove type |  |  |  |  |  |
| unimproved | 228 (0.6%) | 92 (0.3%) | 20 (0.2%) | 1143 (7.7%) | 3440 (48.6%) |
| improved | 33743 (94.6%) | 26655 (96.8%) | 12027 (93.0%) | 11640 (78.9%) | 2143 (30.3%) |
| missing | 1490 (4.2%) | 330 (1.2%) | 820 (6.3%) | 1970 (13.4%) | 1471 (20.8%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Chimney in kitchen |  |  |  |  |  |
| missing | 35405 (99.2%) | 27018 (98.2%) | 12863 (99.5%) | 13627 (92.4%) | 3614 (51.0%) |
| no | 40 (0.1%) | 58 (0.2%) | 4 (0.0%) | 13 (0.1%) | 19 (0.3%) |
| yes | 16 (0.0%) | 1 (0.0%) | 0 (0%) | 1113 (7.5%) | 3421 (48.3%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Cooking fuel |  |  |  |  |  |
| solid | 149 (0.4%) | 70 (0.3%) | 17 (0.1%) | 1156 (7.8%) | 3440 (48.6%) |
| clean | 45 (0.1%) | 183 (0.7%) | 20 (0.2%) | 3 (0.0%) | 10 (0.1%) |
| missing | 35267 (98.8%) | 26824 (97.4%) | 12830 (99.2%) | 13594 (92.1%) | 3604 (50.9%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Type of roof |  |  |  |  |  |
| unimproved | 532 (1.5%) | 1057 (3.8%) | 24 (0.2%) | 0 (0%) | 13 (0.2%) |
| improved | 33300 (93.3%) | 25585 (92.9%) | 12057 (93.3%) | 12753 (86.4%) | 5563 (78.6%) |
| missing | 1629 (4.6%) | 435 (1.6%) | 786 (6.1%) | 2000 (13.6%) | 1478 (20.9%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Type of wall |  |  |  |  |  |
| natural | 467 (1.3%) | 673 (2.4%) | 85 (0.7%) | 0 (0%) | 3 (0.0%) |
| rudimentary | 495 (1.4%) | 168 (0.6%) | 53 (0.4%) | 441 (3.0%) | 28 (0.4%) |
| finished | 32974 (92.4%) | 25545 (92.8%) | 11948 (92.4%) | 12279 (83.2%) | 5541 (78.2%) |
| missing | 1525 (4.3%) | 691 (2.5%) | 781 (6.0%) | 2033 (13.8%) | 1482 (20.9%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Animal ownership |  |  |  |  |  |
| 0 | 30233 (84.7%) | 23106 (83.9%) | 9675 (74.8%) | 7515 (50.9%) | 3995 (56.4%) |
| 1 | 3725 (10.4%) | 3652 (13.3%) | 2408 (18.6%) | 5354 (36.3%) | 1620 (22.9%) |
| missing | 1503 (4.2%) | 319 (1.2%) | 784 (6.1%) | 1884 (12.8%) | 1439 (20.3%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| Asset-based wealth index |  |  |  |  |  |
| WealthQ1 | 8726 (24.5%) | 6894 (25.0%) | 2610 (20.2%) | 3137 (21.3%) | 1404 (19.8%) |
| WealthQ2 | 8613 (24.1%) | 6709 (24.4%) | 3450 (26.7%) | 3187 (21.6%) | 1224 (17.3%) |
| WealthQ3 | 8467 (23.7%) | 6714 (24.4%) | 3056 (23.6%) | 3235 (21.9%) | 810 (11.4%) |
| WealthQ4 | 8249 (23.1%) | 6453 (23.4%) | 2980 (23.0%) | 3344 (22.7%) | 2184 (30.8%) |
| missing | 1406 (3.9%) | 307 (1.1%) | 771 (6.0%) | 1850 (12.5%) | 1432 (20.2%) |
| Missing | 220 (0.6%) | 450 (1.6%) | 62 (0.5%) | 0 (0%) | 28 (0.4%) |
| nroom\_sleeping |  |  |  |  |  |
| Mean (SD) | 2.48 (1.24) | 2.56 (1.81) | 2.21 (0.941) | 2.00 (0.953) | 2.54 (1.08) |
| Median [Min, Max] | 2.00 [1.00, 30.0] | 2.00 [1.00, 73.0] | 2.00 [1.00, 43.0] | 2.00 [1.00, 15.0] | 2.00 [1.00, 14.0] |
| Missing | 1626 (4.6%) | 757 (2.8%) | 833 (6.4%) | 1852 (12.6%) | 1461 (20.6%) |

## Child health outcomes

## Outcome missingness

## Covariate information

## MICS surveys used