Table 1:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Characteristics | MICS 2019 | | | MICS 2012 | | |
| Diarrhea | | | Diarrhea | | |
|  | Yes | No | Total | Yes | No | Total |
| **Child Characteristics** | | | | | | |
| **Age** |  |  |  |  |  |  |
| 0-11 | 38 (7.96) | 438 (92.04) | 476 (20.40) | 21 (5.04) | 387 (94.96) | 407 (19.64) |
| 12-23 | 49 (10.88) | 398 (89.12) | 446 (19.14) | 25 (5.49) | 439 (94.51) | 464 (22.40) |
| 24-35 | 37 (7.79) | 440 (92.21) | 478 (20.48) | 13 (3.15) | 394 (96.85) | 407 (19.62) |
| 36-47 | 29 (6.17) | 443 (93.83) | 472 (20.23) | 9 (2.23) | 382 (97.77) | 391 (18.84) |
| 48-59 | 20 (4.35) | 440 (95.65) | 460 (19.74) | 6 (1.57) | 398 (98.43) | 404 (19.50) |
| **Sex** |  |  |  |  |  |  |
| Male | 91 (7.35) | 1152 (92.65) | 1244 (53.33) |  |  |  |
| Female | 81 (7.48) | 1007 (92.52) | 1088 (46.67) |  |  |  |
| **Maternal Characteristics** | | | | | |  |
| **Education Status** |  |  |  |  |  |  |
| Primary | 28 (10.17) | 248 (89.83) | 276 (11.86) |  |  |  |
| Lower Secondary | 30 (5.59) | 513 (94.41) | 543 (23.31) |  |  |  |
| Secondary or Higher Secondary | 91 (7.88) | 1059 (92.12) | 1150 (49.31) |  |  |  |
| Higher | 24 (6.52) | 338 (93.48) | 362 (15.53) |  |  |  |
| **Household Characteristics** | | | | | | |
| **Household size** |  |  |  |  |  |  |
| <5 | 76 (7.89) | 884 (92.11) | 960 (41.18) |  |  |  |
| 5/5+ | 97 (7.07) | 1275 (92.93) | 1372 (58.82) |  |  |  |
| **Livestock ownership** |  |  |  |  |  |  |
| Yes | 102 (7.39) | 1276 (92.61) | 1378 (59.14) |  |  |  |
| No | 71 (7.45) | 881 (92.55) | 952 (40.86) |  |  |  |
| **Wealth status** |  |  |  |  |  |  |
| Poorest | 90 (9.12) | 894 (90.88) | 984 (42.19) |  |  |  |
| Middle | 23 (5.10) | 425 (94.90) | 448 (19.21) |  |  |  |
| Richest | 60 (6.70) | 840 (93.30) | 900 (38.59) |  |  |  |
| **Source water type** |  |  |  |  |  |  |
| Improved | 171 (7.47) | 2120 (92.53) | 2291 (98.27) |  |  |  |
| Unimproved | 2 (3.77) | 39 (96.23) | 40 (1.73) |  |  |  |
| **Toilet facility type** |  |  |  |  |  |  |
| Improved | 168 (7.44) | 2083 (92.56) | 2251 (96.54) |  |  |  |
| Non-improved | 5 (6.43) | 76 (93.57) | 81 (3.46) |  |  |  |
| **Toilet facility shared** |  |  |  |  |  |  |
| Yes | 58 (7.85) | 675 (92.15) | 733 (31.81) |  |  |  |
| No | 115 (7.32) | 1456 (92.68) | 1571 (68.19) |  |  |  |
| **Household water *E. coli* concentration** |  |  |  |  |  |  |
| Low | 16 (4.25) | 369 (95.75) | 386 (16.54) |  |  |  |
| Moderate | 31 (6.63) | 438 (93.37) | 469 (20.10) |  |  |  |
| High | 125 (8.48) | 1352 (91.52) | 1477 (63.36) |  |  |  |
| **Source of water** |  |  |  |  |  |  |
| Direct from source | 11 (7.37) | 134 (92.63) | 145 (6.21) |  |  |  |
| Covered container | 117 (7.99) | 1346 (92.01) | 1463 (62.86) |  |  |  |
| Uncovered container | 45 (6.28) | 675 (93.73) | 720 (30.93) |  |  |  |
| **Source water *E. coli* concentration** |  |  |  |  |  |  |
| Low | 96 (7.25) | 1227 (92.75) | 1323 (57.37) |  |  |  |
| Moderate | 39 (7.44) | 488 (92.56) | 527 (22.86) |  |  |  |
| High | 38 (8.23) | 418 (91.76) | 456 (19.77) |  |  |  |
| **Water treatment** |  |  |  |  |  |  |
| Yes | 58 (7.85) | 675 (92.15) | 733 (31.81) |  |  |  |
| No | 115 (7.32) | 1456 (92.68) | 1571 (68.19) |  |  |  |
| **Community characteristics** | | | | | | |
| **Place of residence** |  |  |  |  |  |  |
| Rural | 36 (7.49) | 438 (92.51) | 474 (20.33) |  |  |  |
| Urban | 137 (7.39) | 1720 (92.61) | 1858 (79.67) |  |  |  |
| **Division** |  |  |  |  |  |  |
| Barisal | 23 (17.34) | 108 (82.66) | 131 (5.62) |  |  |  |
| Chattogram | 38 (7.18) | 496 (92.82) | 534 (22.92) |  |  |  |
| Dhaka | 38 (7.00) | 500 (93.00) | 537 (23.04) |  |  |  |
| Khulna | 15 (6.67) | 212 (93.33) | 228 (9.76) |  |  |  |
| Mymensingh | 23 (12.56) | 158 (87.44) | 181 (7.77) |  |  |  |
| Rajshahi | 15 (5.26) | 278 (94.74) | 293 (12.58) |  |  |  |
| Rangpur | 14 (5.68) | 235 (94.32 | 249 (10.67) |  |  |  |
| Sylhet | 7 (3.69) | 172 (96.31) | 178 (7.64) |  |  |  |

Table 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Exposure of interest | Unadjusted model |  | Adjusted model |  |
|  | COR (95% CI) | p-value | AOR (95% CI) | p-value |
| Household water E. coli concentration |  |  |  |  |
| Low | Ref |  | Ref |  |
| Moderate | 1.60 (0.79 – 3.25) | 0.193 | 1.53 (0.70 – 3.32) | 0.283 |
| High | 2.09 (1.17 – 3.72) | 0.012 | 1.88 (0.93 – 3.80) | 0.079 |