Cross tabulation results for both the MICS 2012 & 2019

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Characteristics** | 2012 | |  | 2019 | |  |
| **Developmentally on track** | | **P-value** | **Developmentally on track** | | **P-value** |
| **Yes** | **No** | **Yes** | **No** |
| **N (%)** | **N (%)** | **N (%)** | **N (%)** |
| ***Age of child*** | | | | | | |
| 3 | 2392 (59.46) | 1649(40.54) | <0.001 | 3166 (68.72) | 1584 (31.28) | <0.001 |
| 4 | 2909 (71.40) | 1198 (28.60) | 3680 (81.26) | 916 (18.74) |
| ***Child’s sex*** | | | | | | |
| Male | 2669 (63.41) | 1565 (36.59) | <0.005 | 3383 (71.51) | 1440 (28.49) | <0.001 |
| Female | 2632 (67.65) | 1282 (32.35) | 3463 (78.46) | 1060 (21.54) |
| ***Place of residence*** | | | | | | |
| Urban | 4388(63.72) | 2467 (36.28) | <0.001 | 5541 (73.99) | 2070 (26.01) | <0.001 |
| Rural | 913 (72.17) | 380 (27.83) | 1305 (78.15) | 430 (21.85) |
| ***Division*** | | | | | | |
| Barishal | 526 (67.86) | 262 (32.14) | <0.001 | 552 (67.8) | 269 (32.20) | <0.001 |
| Chattogram | 940 (55.04) | 682 (44.96) | 1479 (78.26) | 470 (21.74) |
| Dhaka | 1286 (67.45) | 674 (32.55) | 1453 (81.85) | 343 (18.15) |
| Khulna | 740 (71.70) | 326 (28.30) | 895 (73.07) | 409 (26.93) |
| Mymensingh | - | - | 347 (61.26) | 209 (38.74) |
| Rajshahi | 527 (66.76) | 263 (33.24) | 720 (69.57) | 307 (30.43) |
| Rangpur | 866 (78.38) | 262 (21.62) | 896 (83.71) | 207 (16.29) |
| Sylhet | 416 (54.15) | 378 (45.85) | 504 (61.73) | 286 (38.27) |
| ***Mother’s Education*** | | | | | | |
| Primary incomplete | 2076 (58.80) | 1462 (41.20) | <0.001 | 847 (68.53) | 389 (31.47) | <0.001 |
| Primary complete | 772 (62.73) | 447 (37.27) | 1590 (68.62) | 727 (31.38) |
| Secondary incomplete | 1800 (70.01) | 760 (29.99) | 3363 (74.63) | 1143 (25.37) |
| Secondary complete or Higher | 653 (79.46) | 178 (20.54) | 1046 (81.27) | 241(18.73) |
| ***Wealth Index*** | | | | | | |
| Poorest | 1503 (58.34) | 1039 (41.66) | <0.001 | 1625 (68.35) | 750 (31.65) | <0.001 |
| Second | 1118 (62.85) | 657 (37.15) | 1401 (71.50) | 581 (28.5) |
| Middle | 954 (65.97) | 479 (35.03) | 1287 (75.45) | 462 (24.55) |
| Fourth | 885 (67.20) | 407 (32.80) | 1287 (75.86) | 442 (24.14) |
| Richest | 841 (77.55) | 265 (22.45) | 1246 (84.05) | 264 (15.95) |
| ***Religion*** | | | | | | |
| Islam | 4671 (65.36) | 2512 (34.64) | 0.652 | 5518 (74.97) | 2025 (25.03) | 0.658 |
| Others | 630 (66.44) | 335 (33.56) | 908(74.26) | 325(25.74) |
| ***Sex of household head*** | | | | | | |
| Male | 4998 (65.47) | 2695 (34.53) | 0.960 | 5500 (75.12) | 1996 (24.888) | 0.254 |
| Female | 303 (65.31) | 152 (34.69) | 926 (73.42) | 354 (26.58) |
| ***Ethnicity*** | | | | | | |
| Bengali | 5070 (65.42) | 2709 (34.58) | 0.511 | 6684 (74.89) | 2438 (25.11) | 0.474 |
| Others | 231 (67.94) | 138 (32.06) | 162 (72.70) | 62 (27.30) |
| ***C-section*** | | | | | | |
| Yes | 19 (91.97) | 2 (8.03) | 0.090 | 304 (76.92) | 101 (23.08) | 0.138 |
| No | 3 (39.41) | 2 (60.59) | 168 (69.97) | 73 (30.03) |
| ***Mother’s Age*** | | | | | | |
| 15-19 | 190 (68.0) | 86 (32.0) | <0.01 | 1276 (77.02) | 428 (22.98) | 0.064 |
| 20-34 | 2991 (68.18) | 1444 (31.82) | 3035 (73.85) | 1148 (26.15) |
| 35+ | 883 (62.75) | 536(37.25) | 2009 (74.83) | 751 (25.17) |
| ***Early Childhood Diseases*** | | | | | | |
| Yes | 1262 (64.63) | 712 (35.37) | 0.492 | 1895 (73.84) | 738 (26.16) | 0.205 |
| No | 4035 (65.72) | 2132 (34.28) | 4940 (75.24) | 1761 (24.76) |
| ***Underweight*** | | | | | | |
| Yes | 1660 (61.12) | 1047 (38.88) | <0.001 | 1591 (71.86) | 667 (28.14) | <0.001 |
| No | 3308 (68.11) | 1618 (31.89) | 5038 (75.97) | 1732 (24.03) |
| ***Stunned*** | | | | | | |
| Yes | 2037 (59.86) | 1355 (40.14) | <0.001 | 1749 (70.34) | 802 (29.66) | <0.001 |
| No | 2860 (70.83) | 1240 (29.17) | 4824 (76.79) | 1572 (23.21) |
| ***Wasted*** | | | | | | |
| Yes | 444 (65.59) | 239 (34.41) | 0.989 | 647 (74.34) | 238 (25.66) | 0.721 |
| No | 4516 (65.63) | 2415 (34.37) | 5905 (74.96) | 2134 (25.04) |
| ***Overweight*** | | | | | | |
| Yes | 407 (64.98) | 219 (35.02) | 0.831 | 395 (76.0) | 158 (24.0) | 0.544 |
| No | 4894 (65.5) | 2628 (34.5) | 6451 (74.78) | 2342 (25.22) |
| ***BMI*** | | | | | | |
| Under | 4885 (65.55) | 2618 (34.45) | 0.498 | 6454 (74.82) | 2342 (25.18) | 0.298 |
| Normal | 78 (69.42) | 38 (30.58) | 118 (80.09) | 36 (19.91) |
| Over | 338 (63.01) | 191 (36.99) | 274 (73.44) | 122 (26.56) |
| ***Sanitation*** | | | | | | |
| Improved | 4563 (66.31) | 2326 (33.69) | 0.005 | 6218 (74.83) | 2279 (25.17) | 0.712 |
| Unimproved | 716 (59.76) | 508 (40.24) | 207 (76.0) | 71 (24.0) |
| Other | 20 (58.65) | 11 (41.35) | 0 (0.0) | 0 (0.0) |
| ***Early childhood programs*** | | | | | | |
| Yes | 936 (78.93) | 246 (21.07) | <0.001 | 1498 (85.99) | 269 (14.01) | <0.001 |
| No | 4364 (63.31) | 2599 (36.69) | 5348 (72.19) | 2231 (27.81) |
| ***Mother Stimulation*** | | | | | | |
| Yes | 4619 (66.26) | 2422 (33.74) | <0.005 | 5696 (75.86) | 1949 (24.14) | <0.001 |
| No | 682 (60.2) | 425 (39.8) | 1150 (70.2) | 551 (29.8) |
| ***Father Stimulation*** | | | | | | |
| Yes | 3035 (66.49) | 1613 (33.51) | 0.079 | 3024 (73.11) | 1151 (26.89) | <0.002 |
| No | 2266 (64.02) | 1234 (35.98) | 3822 (76.29) | 1349 (23.71) |
| ***Other Stimulation*** | | | | | | |
| Yes | 4356 (66.5) | 2282 (33.5) | <0.005 | 3646 (74.15) | 1344 (25.85) | 0.118 |
| No | 945 (61.19) | 565 (38.81) | 3200 (75.68) | 1156 (24.32) |
| ***Inadequate Supervision*** | | | | | | |
| Yes | 542 (62.96) | 306 (37.04) | 0.343 | 590 (68.92) | 279 (31.08) | <0.001 |
| No | 4754 (65.74) | 2538 (34.26) | 6256 (75.41) | 2221(24.59) |
| ***Salt Iodization*** | | | | | | |
| Yes | 3844 (66.9) | 1953 (33.1) | <0.001 | 5172 (74.65) | 1894 (25.35) | 0.400 |
| No | 1423 (61.63) | 873 (38.37) | 1251 (75.77) | 456 (24.23) |
| ***Books*** | | | | | | |
| Yes | 3325 (72.13) | 1251 (27.87) | <0.001 | 3837 (80.65) | 1017 (19.35) | <0.001 |
| No | 1976 (55.8) | 1596 (44.2) | 3008 (68.58) | 1483 (31.42) |
| ***Toys*** | | | | | | |
| Yes | 4084 (68.18) | 2053 (31.82) | <0.001 | 5645 (74.69) | 2081 (25.31) | 0.465 |
| No | 1217 (57.41) | 794 (42.59) | 1201 (75.67) | 419 (24.33) |
| ***Mass Media*** | | | | | | |
| Yes | 2038 (71.38) | 838 (28.62) | <0.001 | 3830 (74.69) | 1411 (25.31) | 0.803 |
| No | 2024 (61.88) | 1228 (38.12) | 2490 (74.95) | 916 (25.05) |
| ***Child Punishment*** | | | | | | |
| Yes | 137 (49.01) | 145 (50.99) | <0.001 | 321 (64.8) | 165 (35.2) | <0.001 |
| No | 5164 (66.13) | 2702 (33.87) | 6525(75.42) | 2335 (24.58) |

Logistic:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Characteristics** | **MICS- 2012** | | | | **MICS- 2019** | | | |
| **Univariate** | | **Multi-variate** | | **Univariate** | | **Multi-variate** | |
| **Unadjusted**  **OR (95% CI)** | **P-value** | **Adjusted**  **OR (95% CI)** | **P-value** | **Unadjusted**  **OR (95% CI)** | **P-value** | **Adjusted**  **OR (95% CI)** | **P-value** |
| ***Age of Child*** | | | | | | | | |
| 4 | 1.70 (1.52-1.91) | <0.001 | 1.62 (1.4-1.88) | <0.001 | 1.97 (1.77-2.20) | <0.001 | 1.78 (1.58-2.00) | <0.001 |
| 3 | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Child’s Sex*** | | | | | | | | |
| Female | 1.21 (1.07-1.36) | <0.005 | 1.42 (1.23-1.63) | <0.001 | 1.45 (1.31-1.61) | <0.001 | 1.44 (1.29-1.61) | <0.001 |
| Male | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Residence*** | | | | | | | | |
| Rural | 1.48 (1.21-1.79) | <0.001 | 1.09 (0.88-1.35) | 0.442 | 1.26 (1.09-1.44) | <0.001 | 0.89 (0.76-1.03) | 0.128 |
| Urban | Reference | - | Reference | -- | Reference | - | Reference | - |
| ***Division*** | | | | | | | | |
| Chattogram | 0.58 (0.47-0.71) | <0.001 | 0.59 (0.45-0.75) | <0.001 | 1.71 (1.43 - 2.05) | <0.001 | 1.50 (1.23-1.84) | <0.001 |
| Dhaka | 0.98 (0.80-1.20) | 0.859 | 0.99 (0.77-1.26) | 0.911 | 2.14 (1.77 -2.60) | <0.001 | 1.93 (1.56-2.40) | <0.001 |
| Khulna | 1.20 (0.97-1.49) | 0.097 | 1.02 (0.79-1.32) | 0.888 | 1.29 (1.07-1.55) | <0.01 | 1.08 (0.88-1.32) | 0.488 |
| Mymensingh | - | - | - | - | 0.75 (0.59 - 0.95) | 0.017 | 0.84 (0.65-1.10) | 0.204 |
| Rajshahi | 0.95 (0.75-1.20) | 0.675 | 0.87 (0.65-1.16) | 0.332 | 1.09 (0.88-1.33) | 0.430 | 0.99 (0.79-1.24) | 0.927 |
| Rangpur | 1.72 (1.38-2.13) | <0.001 | 1.86 (1.42-2.44) | <0.001 | 2.44 (0.62-0.95) | <0.001 | 2.74 (2.20-3.42) | <0.001 |
| Sylhet | 0.56 (0.44-0.71) | <0.001 | 0.62 (0.46-0.85) | <0.005 | 0.77 (0.62-0.95) | 0.015 | 0.80 (0.63-1.01) | 0.063 |
| Barishal | Reference | - | Reference |  | Reference | - | Reference | - |
| ***Mother’s Education*** | | | | | | | | |
| Secondary complete or Higher | 2.71 (2.14-3.43) | <0.001 | 1.76 (1.27-2.42) | <0.001 | 2.26 (1.82-2.79) | <0.001 | 1.37 (1.06-1.77) | 0.015 |
| Secondary incomplete | 1.64 (1.43-1.87) | <0.001 | 1.26 (1.04-1.52) | 0.018 | 1.53 (1.31-1.78) | <0.001 | 1.18 (0.99-1.42) | 0.069 |
| Primary complete | 1.17 (0.99-1.40) | 0.062 | 0.98 (0.78-1.22) | 0.847 | 1.04 (0.88-1.23) | 0.651 | 0.96 (0.80-1.15) | 0.627 |
| Primary incomplete | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Wealth Index*** | | | | | | | | |
| Richest | 2.47 (1.98-3.08) | <0.001 | 1.34 (0.97-1.85) | 0.081 | 2.44 (2.04 -2.93) | <0.001 | 1.70 (1.34-2.15) | <0.001 |
| Fourth | 1.46 (1.22-1.75) | <0.001 | 0.97 (0.76-1.24) | 0.806 | 1.45 (1.24-1.70) | <0.001 | 1.11 (0.92-1.33) | 0.269 |
| Middle | 1.32 (1.12-1.56) | <0.001 | 1.06 (0.85-1.32) | 0.611 | 1.42 (1.22-1.66) | <0.001 | 1.15 (0.97-1.37) | 0.117 |
| Second | 1.21 (1.04-1.41) | 0.014 | 1.02 (0.84-1.23) | 0.858 | 1.16 (1.00-1.35) | 0.051 | 1.02 (0.86-1.20) | 0.849 |
| Poorest | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Mother’s Age*** | | | | | | | | |
| 15 – 19 | 1.26 (0.90-1.77) | 0.182 | 1.22 (0.83-1.81) | 0.338 | -- | -- | -- | -- |
| 20 – 34 | 1.27 (1.10-1.49) | <0.005 | 1.15 (0.96-1.38) | 0.133 | -- | -- | -- | -- |
| 35+ | Reference | --- | Reference | -- | -- | -- | -- | -- |
| ***Underweight*** | | | | | | | | |
| No | 1.36 (1.19-1.55) | <0.001 | 1.11 (0.92-1.34) | 0.260 | 1.24 (1.10-1.39) | < .001 | 1.01 (0.88-1.17) | 0.861 |
| Yes | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Stunned*** | | | | | | | | |
| No | 1.63 (1.44-1.84) | <0.001 | 1.18 (0.99-1.40) | 0.070 | 1.40 (1.25-1.56) | < .001 | 1.09 (0.94-1.25) | 0.247 |
| Yes | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Sanitation*** | | | | | | | | |
| Others | 0.72 (0.28-1.90) | 0.504 | 1.29 (0.38-4.40) | 0.685 | -- | -- | -- | -- |
| Unimproved | 0.75 (0.65-0.88) | <0.001 | 1.09 (0.87-1.36) | 0.466 | -- | -- | -- | -- |
| Improved | Reference | - | Reference | - | -- | - | -- | - |
| ***Early Childhood Programs*** | | | | | | | | |
| Yes | 2.17 (1.79-2.64) | <0.001 | 1.45 (1.15-1.83) | <0.005 | 2.37 (2.00-2.79) | < .001 | 1.57 (1.31-1.88) | < 0.001 |
| No | Reference | - | Reference | - | Reference | - | Reference | - |
| ***Mother Stimulation*** | | | | | | | | |
| Yes | 1.30 (1.10-1.53) | <0.005 | 0.96 (0.76-1.20) | 0.698 | 1.33 (1.17-1.52) | < .001 | 1.01 (0.87-1.18) | 0.879 |
| No | Reference | - | Reference | -- | Reference | -- | Reference | -- |
| ***Father Stimulation*** | | | | | | | | |
| No | -- | -- | -- | -- | 1.18 (1.07-1.31) | <0.002 | 1.30 (1.15-1.46) | < 0.001 |
| Yes | -- | -- | -- | -- | Reference | -- | Reference | -- |
| ***Others Stimulation*** | | | | | | | | |
| Yes | 1.26 (1.08-1.46) | <0.005 | 1.34 (1.10-1.62) | <0.005 | -- | -- | -- | -- |
| No | Reference | - | Reference | -- | -- | -- | -- | -- |
| ***Inadequate Supervision*** | | | | | | | | |
| No | -- | -- | -- | -- | 1.38 (1.16-1.64) | < .001 | 1.29 (1.06-1.56) | <0.01 |
| Yes | -- | -- | -- | -- | Reference | -- | Reference | -- |
| ***Salt Iodization*** | | | | | | | | |
| Yes | 1.26 (1.11-1.43) | <0.001 | 1.00 (0.84-1.17) | 0.928 | -- | -- | -- | -- |
| No | Reference | - | Reference | -- | -- | -- | -- | -- |
| ***Books*** | | | | | | | | |
| Yes | 2.05 (1.83-2.30) | <0.001 | 1.50 (1.26-1.76) | <0.001 | 1.91 (1.72-2.13) | < 0.001 | 1.53 (1.35-1.73) | < 0.001 |
| No | Reference | - | Reference | -- | Reference | -- | Reference | -- |
| ***Toys*** | | | | | | | | |
| Yes | 1.59 (1.37-1.84) | <0.001 | 1.54 (1.29-1.84) | <0.001 | -- | -- | -- | -- |
| No | Reference | - | Reference | -- | -- | -- | -- | -- |
| ***Mass Media*** | | | | | | | | |
| Yes | 1.54 (1.34-1.76) | <0 .001 | 1.13(0.95-1.35) | 0.155 | -- | -- | -- | -- |
| No | Reference | - | Reference | -- | -- | -- | -- | -- |
| ***Child Punishment*** | | | | | | | | |
| Yes | 0.49 (0.36-0.67) | <0.001 | 0.70 (0.49-0.99) | 0.042 | 1.67 (1.36-2.05) | <0.001 | 1.55 (1.22-1.96) | < 0.001 |
| No | Reference | - | Reference | -- | Reference | - | Reference | -- |