**Table 1: Comparison of correct response rate between three consecutive MICS survey.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Questions about HIV related awareness | Correct response | | | | | |
|  | 2006 | | 2012 | | 2019 | |
|  | Yes  N (%) | No  (%) | Yes  N (%) | No  (%) | Yes  N (%) | No  (%) |
| **Percentage who know transmission can be prevented by:** |  |  |  |  |  |  |
| Having only one faithful uninfected sex partner | 25340 (75.34) | 8503 (24.66) | 11640 (58.13) | 9087 (41.87) | 9783 (32.61) | 19941 (67.39) |
| Using a condom every time | 22226 (65.89) | 11617 (34.11) | 10617 (52.31) | 10110 (47.69) | 18277 (62.42) | 11447 (37.58) |
| A healthy-looking person can be infected | 25850 (75.85) | 7993 (24.15) | 11668 (56.15) | 9059 (43.85) | 17212 (58.30) | 12512 (41.70) |
| **Percentage who know that HIV cannot be transmitted by:** |  |  |  |  |  |  |
| HIV cannot be transmitted by sharing food | 16926 (49.43) | 16917 (50.57) | 10409 (52.14) | 10318 (47.86) | 24258 (82.46) | 5466 (17.54) |
| HIV cannot be transmitted by mosquito bites | 14667 (43.60) | 19176 (56.40) | 8638 (42.99) | 12091 (57.01) | 13609 (53.02) | 16115 (46.98) |
| HIV cannot be transmitted by supernatural means | 24223 (71.97) | 9620 (28.03) | 14440 (70.80) | 6287 (29.20) | 14903 (50.84) | 14821 (49.16) |
| HIV can be transmitted by sharing needles | 30994 (91.50) | 2849 (8.50) | - | - |  |  |
| **Percentage of women who know HIV can be transmitted from mother to child:** |  |  |  |  |  |  |
| HIV transmitted during pregnancy | 30373 (89.71) | 3470 (10.29) | 15078 (71.92) | 5649 (28.08) | 21827 (72.57) | 7897 (27.43) |
| HIV transmitted during delivery | 26055 (76.73) | 7788 (23.27) | 9546 (42.26) | 11181 (57.74) | 17298 (43.05) | 12426 (56.95) |
| HIV transmitted through breast milk | 30182 (89.04) | 3661 (10.96) | 14100 (65.83) | 6627 (34.17) | 22344 (75.11) | 7380 (24.89) |

**Table 3: Count of correct response**

|  |  |  |  |
| --- | --- | --- | --- |
| Correct response | 2006  N (%) | 2012  N (%) | 2019  N (%) |
| 0 (No correct response) | 19 (0.04) | 1203 (6.14) | 1167 (3.22) |
| 1 | 520 (1.51) | 705 (3.34) | 730 (2.40) |
| 2 | 422 (1.32) | 1031 (5.00) | 1096 (3.84) |
| 3 | 677 (2.02) | 1820 (8.75) | 2177 (7.59) |
| 4 | 1123 (3.34) | 2518 (11.84) | 2878 (10.06) |
| 5 | 1963 (5.94) | 3330 (15.79) | 4065 (14.19) |
| 6 | 3747 (10.95) | 3676 (17.29) | 5035 (16.75) |
| 7 | 6689 (19.71) | 3317 (16.15) | 5140 (16.62) |
| 8 | 9594 (28.18) | 2233 (11.45) | 4735 (15.78) |
| 9 | 7813 (23.21) | 894 (4.25) | 2701 (9.54) |
| 10 | 1276 (3.78) | - | - |
| Median | 8.00 | 5.00 | 6 |

Table 1. HIV/AIDS knowledge and awareness score status at different levels of covariates.

**Table 3. HIV/AIDS knowledge and awareness score status at different levels of covariates.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Covariates | MICS 2006 | | | MICS 2012 | | | MICS 2019 | | |
|  | Low Score  N (%) | High Score  N (%) | P-value | Low Score  N (%) | High Score  N (%) | P-value | Low Score  N (%) | High Score  N (%) | P-value |
| **Total** | 15160 (44.80) | 18683 (55.20) | - | 7277 (35.07) | 13450 (64.93) |  | 12113 (41.31) | 17611 (58.69) |  |
| **Ten years age group** |  |  |  |  |  |  |  |  |  |
| 15–24 | 5218 (44.16) | 6540 (55.84) | 0.000 | 2027 (33.71) | 4131 (66.29) | 0.000 | 3148 (39.84) | 4971 (60.16) | 0.000 |
| 25–34 | 5225 (43.60) | 6831 (56.40) |  | 2882 (32.62) | 5694 (67.38) |  | 4775 (40.01) | 7352 (59.99) |  |
| 35–44 | 3545 (45.75) | 4209 (54.25) |  | 1836 (39.60) | 2896 (60.40) |  | 3220 (43.26) | 4276 (56.74) |  |
| 45 and above | 1172 (51.83) | 1103 (48.17) |  | 532 (41.42) | 729 (58.58) |  | 970 (47.87) | 1012 (52.13) |  |
| **Division** |  |  |  |  |  |  |  |  |  |
| Barisal | 1517 (44.88) | 1825 (55.12) | 0.000 | 597 (31.88) | 1276 (68.12) | 0.000 | 849 (37.85) | 1223 (62.15) | 0.000 |
| Chittagong | 2451 (42.45) | 3440 (57.55) |  | 1263 (40.73) | 1913 (59.27) |  | 1935 (42.36) | 2931 (57.64) |  |
| Dhaka | 4547 (45.85) | 5224 (54.15) |  | 1715 (31.46) | 3543 (68.54) |  | 2904 (45.37) | 3376 (54.63) |  |
| Khulna | 2379 (39.43) | 3621 (60.57) |  | 1789 (38.55) | 3209 (61.45) |  | 2413 (41.53) | 3476 (58.47) |  |
| Mymenshing | - | - |  | - | - |  | 615 (40.01) | 926 (59.99) |  |
| Rajshahi | 3315 (47.70) | 3565 (52.30) |  | 868 (33.37) | 1660 (66.63) |  | 1804 (46.55) | 1987 (53.45) |  |
| Rangpur | - | - |  | 553 (28.20) | 1317 (71.8) |  | 1045 (35.25) | 2131 (64.75) |  |
| Sylhet | 951 (49.35) | 1008 (50.65) |  | 492 (46.91) | 532 (53.09) |  | 548 (23.44) | 1561 (76.56) |  |
| **Type of place of residence** |  |  |  |  |  |  |  |  |  |
| Rural | 9360 (48.04) | 10120 (51.96) | 0.000 | 1335 (27.95) | 3321 (72.05) | 0.000 | 2587 (36.58) | 4586 (63.42) | 0.000 |
| Urban | 5513 (39.81) | 8109 (60.19) |  | 5942 (38.05) | 10129 (61.95) |  | 9526 (43.07) | 13025 (56.93) |  |
| Tribial | 287 (45.75) | 454 (54.25) |  | - | - |  | - | - |  |
| **Highest educational level** |  |  |  |  |  |  |  |  |  |
| No education | 4208 (57.36) | 3167 (42.64) | 0.000 | 1358 (55.74) | 1169 (44.26) | 0.000 | 1236 (57.52) | 904 (42.48) | 0.000 |
| Primary incomplete | 2496 (51.73) | 2330 (48.27) |  | 1163 (52.39) | 1169 (47.61) |  | - | - |  |
| Primary complete | 2272 (47.50) | 2520 (52.50) |  | 1198 (44.92) | 1464 (55.08) |  | 2911 (54.19) | 2524 (45.81) |  |
| Secondary incomplete | 4507 (40.08) | 6710 (59.92) |  | 2853 (32.54) | 5977 (67.46) |  | 6515 (42.36) | 9300 (57.64) |  |
| Secondary completed or Higher | 1637 (29.71) | 3929 (70.29) |  | 705 (15.93) | 3671 (84.07) |  | 1451 (22.87) | 4883 (77.13) |  |
| Non-standard curriculum | 39 (62.95) | 26 (37.05) |  | - | - |  | - | - |  |
| **Religion** |  |  |  |  |  |  |  |  |  |
| Islam | 13264 (45.22) | 15939 (54.78) | 0.003 | 6450 (35.35) | 11836 (64.75) | 0.322 | 10939 (41.61) | 15617 (58.39) | 0.0229 |
| Others | 1896 (41.64) | 2743 (58.36) |  | 827 (33.62) | 1614 (66.38) |  | 1174 (38.36) | 1994 (61.64) |  |
| **Accessibility to mass media** |  |  |  |  |  |  |  |  |  |
| Do not have mass media access | - | - | - | 3842 (45.25) | 9055 (54.75) | 0.000 | 3890 (45.90) | 4648 (54.10) | 0.000 |
| Have mass media access | - | - |  | 3435 (29.90) | 4395 (70.10) |  | 8223 (39.68) | 12963 (60.32) |  |
| **Househols’s education level** |  |  |  |  |  |  |  |  |  |
| No education | 5463 (52.12) | 5033 (47.88) | 0.000 | 2450 (35.45) | 4423 (64.55) | 0.682 | 3293 (48.37) | 3638 (51.63) | 0.000 |
| Primary | 3756 (47.56) | 4177 (52.44) |  | 1786 (34.41) | 3429 (65.59) |  | 3544 (46.03) | 4306 (53.97) |  |
| Secondary or Higher | 5856 (38.42) | 9383 (61.58) |  | 2640 (35.05) | 4909 (64.95) |  | 3779 (40.23) | 5790 (59.77) |  |
| Non-standard curriculum | 36 (45.76) | 47 (54.24) |  | - | - |  | 1492 (28.25) | 3873 (71.75) |  |
| **Wealth Index** |  |  |  |  |  |  |  |  |  |
| Poorest | 1910 (55.46) | 1470 (44.54) | 0.000 | 1185 (48.47) | 1263 (51.53) | 0.000 | 1828 (49.47) | 1923 (50.53) | 0.000 |
| Poorer | 2547 (52.83) | 2332 (47.17) |  | 1363 (42.89) | 1930 (57.11) |  | 2431 (48.35) | 2673 (51.65) |  |
| Middle | 3240 (48.82) | 3497 (51.18) |  | 1660 (41.09) | 2581 (58.91) |  | 2733 (43.96) | 3666 (56.04) |  |
| Richer | 3830 (43.39) | 5065 (56.61) |  | 1691 (34.73) | 3471 (65.27) |  | 2787 (40.03) | 4468 (66.38) |  |
| Richest | 3633 (36.41) | 6319 (63.59) |  | 1378 (24.78) | 4205 (75.22) |  | 2334 (33.62) | 4881 (66.38) |  |

**Table 4. Factors associated with the HIV/AIDS knowledge and awareness score of married women, MICS 2006, MICS 2012 and 2019.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Covariates | MICS 2006 | | MICS 2012 |  | MICS 2019 |  |
|  | **OR (95% CI)** | P-value | **OR (95% CI)** | P-value | **OR (95% CI)** | P-value |
| **Ten years age group** |  |  |  |  |  |  |
| 15–24 | 1 |  | 1 |  | 1 |  |
| 25–34 | 1.06 (0.99-1.13) | 0.081 | 1.20 (1.09-1.32) | 0.000 | 1.11 (1.04-1.19) | 0.003 |
| 35–44 | 1.02 (0.95-1.10) | 0.588 | 1.03 (0.92-1.17) | 0.810 | 1.06 (0.98-1.15) | 0.138 |
| 45 and above | 0.81 (0.72-0.91) | 0.001 | 0.96 (0.80-1.16) | 0.756 | 0.94 (0.84-1.07) | 0.399 |
| **Division** |  |  |  |  |  |  |
| Barisal | 1 |  | 1 |  | 1 |  |
| Chittagong | 1.03 (0.89-1.19) | 0.692 | 0.61 (0.51-0.72) | 0.000 | 0.78 (0.69-0.89) | 0.000 |
| Dhaka | 0.97 (0.84-1.11) | 0.644 | 0.89 (0.77-1.04) | 0.141 | 0.67 (0.59-0.76) | 0.000 |
| Khulna | 1.31 (1.14-1.49) | 0.000 | 0.84 (0.73-0.97) | 0.033 | 0.87 (0.77-0.98) | 0.025 |
| Mymenshing | - | - | - | - | 1.01 (0.86-1.18) | 0.947 |
| Rajshahi | 0.91 (0.79-1.04) | 0.178 | 0.94 (0.81-1.11) | 0.531 | 0.71 (0.63-0.81) | 0.000 |
| Rangpur |  |  | 1.14 (0.96-1.36) | 0.196 | 1.17 (1.02-1.34) | 0.000 |
| Sylhet | 0.83 (0.71-0.98) | 0.024 | 0.51 (0.42-0.61) | 0.000 | 2.42 (2.08-2.83) | 0.022 |
| **Type of place of residence** |  |  |  |  |  |  |
| Rural | 1 |  | 1 |  | 1 |  |
| Urban | 1.16 (1.06-1.26) | 0.001 | 1.14 (1.01-1.29) | 0.058 | 1.13 (1.04-1.22) | 0.003 |
| Tribial | 1.02 (0.76-1.37) | 0.901 | - | - | - | - |
| **Highest educational level** |  |  |  |  |  |  |
| No education | 1 |  | 1 |  | 1 |  |
| Primary incomplete | 1.21 (1.10-1.33) | 0.001 | 1.12 (0.97-1.29) | 0.084 | - | - |
| Primary complete | 1.42 (1.30-1.55) | 0.001 | 1.48 (1.28-1.71) | 0.000 | 1.12 (0.99-1.26) | 0.059 |
| Secondary incomplete | 1.84 (1.68-2.00) | 0.001 | 2.44 (2.13-2.79) | 0.000 | 1.77 (1.58-1.99) | 0.000 |
| Secondary completed or Higher | 2.59 (2.28-2.93) | 0.001 | 5.30 (4.41-6.37) | 0.000 | 4.03 (3.50-4.64) | 0.000 |
| Non-standard curriculum | 0.81 (0.47-1.41) | 0.458 | - | - | - | - |
| **Religion** |  |  |  |  |  |  |
| Islam | 1 |  | 1 |  | 1 |  |
| Others | 1.07 (0.97-1.18) | 0.199 | 1.02 (0.90-1.18) | 0.743 | 1.01 (0.89-1.13) | 0.904 |
| **Accessibility to mass media** |  |  |  |  |  |  |
| Do not have mass media access | - | - | 1 |  | 1 |  |
| Have mass media access | - | - | 1.36 (1.24-1.48) | 0.000 | 1.13 (1.05-1.21) | 0.001 |
| **Househols’s education level** |  |  |  |  |  |  |
| No education | 1 |  | 1 |  | 1 |  |
| Primary | 1.02 (0.95-1.10) | 0.595 | 1.04 (0.94-1.16) | 0.421 | 1.01 (0.93-1.09) | 0.889 |
| Secondary or Higher | 1.06 (0.98-1.14) | 0.156 | 1.03 (0.94-1.14) | 0.516 | 1.08 (0.99-1.17) | 0.071 |
| Non-standard curriculum | 1.18 (0.70-2.00) | 0.526 | - |  | 1.21 (1.08-1.35) | 0.001 |
| **Wealth Index** |  |  |  |  |  |  |
| Poorest | 1 |  | 1 |  | 1 |  |
| Poorer | 1.01 (0.92-1.12) | 0.793 | 1.07 (0.94-1.22) | 0.295 | 1.01 (0.91-1.12) | 0.902 |
| Middle | 1.12 (1.01-1.24) | 0.038 | 1.01 (0.87-1.15) | 0.949 | 1.10 (0.99-1.22) | 0.086 |
| Richer | 1.26 (1.14-1.40) | 0.000 | 1.13 (0.97-1.31) | 0.112 | 1.19 (1.06-1.32) | 0.002 |
| Richest | 1.32 (1.16-1.49) | 0.000 | 1.26 (1.04-1.52) | 0.018 | 1.21 (1.06-1.37) | 0.004 |