|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Country (Year)** | **N (0-59)** | **N [0-6 (%)]** | **Sex (Male (%))** | **HAZ: Mean (SD)** | **WHZ: Mean (SD)** | **BMIZ: Mean (SD)** |
| ***Demographic Health Survey Datasets: South and South-East Asia*** | | | | | | |
| Bangladesh (2017-18) | 7,711 | 11.9 | 52.0 | -1.4 (1.3) | -0.5 (1.1) | -0.4 (1.1) |
| Cambodia (2021-22) | 3,747 | 8.9 | 49.0 | -1.1 (1.4) | -0.5 (1.3) | -0.5 (1.3) |
| India (2019-21) | 197,651 | 9.1 | 51.4 | -1.4 (1.7) | -0.8 (1.5) | -0.7 (1.5) |
| Maldives (2016-17) | 2,342 | 7.6 | 50.9 | -0.9 (1.2) | -0.4 (1.3) | -0.4 (1.3) |
| Myanmar (2015-16) | 4,146 | 10.4 | 51.6 | -1.4 (1.3) | -0.5 (1.1) | -0.3 (1.1) |
| Nepal (2022) | 2,586 | 9.6 | 52.3 | -1.3 (1.1) | -0.5 (1.0) | -0.4 (1.0) |
| Pakistan (2017-18) | 4,079 | 10.4 | 50.5 | -1.6 (1.7) | -0.2 (1.3) | -0.1 (1.3) |
| ***Demographic Health Survey Datasets: Sub-Saharan Africa*** | | | | | | |
| Angola (2015-16) | 6,268 | 12.2 | 49.9 | -1.5 (1.5) | -0.1 (1.2) | 0.0 (1.2) |
| Benin (2017-18) | 11,626 | 11.6 | 50.5 | -1.4 (1.3) | -0.3 (1.1) | -0.2 (1.1) |
| Cameroon (2018) | 4,435 | 11.5 | 50.7 | -1.1 (1.7) | 0.4 (1.4) | 0.5 (1.4) |
| Congo (2011-12) | 4,464 | 11.9 | 51.0 | -1.1 (1.5) | -0.2 (1.2) | -0.1 (1.2) |
| Ethiopia (2019) | 5,055 | 11.0 | 51.2 | -1.4 (1.5) | -0.5 (1.2) | -0.3 (1.2) |
| Gambia (2019-20) | 3,805 | 13.8 | 52.4 | -1.1 (1.1) | -0.4 (1.0) | -0.3 (1.0) |
| Ghana (2014) | 2,682 | 12.4 | 51.7 | -1.0 (1.3) | -0.3 (1.1) | -0.2 (1.1) |
| Kenya (2022) | 17,280 | 10.7 | 50.8 | -0.9 (1.3) | -0.3 (1.2) | -0.3 (1.2) |
| Liberia (2019-20) | 2,439 | 11.2 | 49.1 | -1.4 (1.3) | 0.0 (1.1) | 0.2 (1.1) |
| Malawi (2015-16) | 5,110 | 9.4 | 49.1 | -1.5 (1.4) | 0.1 (1.1) | 0.2 (1.1) |
| Mali (2018) | 8,202 | 11.4 | 50.8 | -1.1 (1.6) | -0.5 (1.2) | -0.5 (1.2) |
| Mozambique (2011) | 9,251 | 10.9 | 50.0 | -1.6 (1.6) | 0.2 (1.3) | 0.4 (1.4) |
| Nigeria (2018) | 11,308 | 10.4 | 50.7 | -1.5 (1.6) | -0.3 (1.1) | -0.2 (1.2) |
| Tanzania (2022) | 4,791 | 11.4 | 50.5 | -1.4 (1.3) | 0.0 (1.1) | 0.1 (1.1) |

**Table 1:** Description of the datasets used in the analyses

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Datasets** | **Sample Size (N)** | **Prevalence of Stunting (95% CI)** | **Prevalence of Possible Risk of Overweight defined through weight for height (95% CI)** | **Prevalence of Possible Risk of Overweight defined through BMI for age**  **(95% CI)** | **Prevalence of CSPO\_WHZ (95% CI)** | **Prevalence of CSPO\_BMIZ (95% CI)** | ***P-value#*** |
| ***Demographic Health Survey Datasets: South and South-East Asia (a)*** | | | | | | | |
| Bangladesh | 7,711 | 19.4 (17.0, 22.1) | 14.3 (12.2, 16.7) | 7.8 (6.2, 9.7) | 5.2 (4.0, 6.9) | 1.6 (0.1, 2.8) | *<0.0001* |
| Cambodia | 3,747 | 15.2 (11.8, 19.5) | 23.3 (19.1, 28.1) | 17.9 (14.2, 22.4) | 11.3 (8.4, 15.2) | 8.1 (5.6, 11.5) | *0.001* |
| India | 197,651 | 23.5 (22.9, 24.1) | 17.2 (16.7, 17.8) | 10.6 (10.2, 11.1) | 11.0 (10.5, 11.4) | 5.7 (5.4, 6.0) | *<0.0001* |
| Maldives | 2,342 | 20.9 (15.5, 27.6) | 18.1 (13.1, 24.5) | 10.2 (6.5, 15.6) | 10.2 (6.5, 15.6) | 3.4 (1.5, 7.4) | *<0.001* |
| Myanmar | 4,146 | 7.2 (5.1, 10.1) | 18.8 (15.4, 22.0) | 15.3 (12.2, 19.1) | 2.8 (1.6, 4.9) | 1.4 (0.1, 3.1) | *0.03* |
| Nepal | 2,586 | 17.4 (13.2, 22.7) | 20.7 (16.0, 26.2) | 13.0 (9.3, 17.8) | 5.7 (3.4, 9.4) | 1.6 (0.1, 4.3) | *0.002* |
| Pakistan | 4,079 | 17.8 (14.5, 21.8) | 19.0 (15.6, 23.0) | 13.2 (10.2, 16.7) | 5.6 (3.8, 8.3) | 3.3 (2.0, 5.5) | *0.002* |
| ***Pooled*** | ***222,262*** | ***22.6 (22.1, 23.2)*** | ***17.3 (16.8, 17.8)*** | ***10.8 (10.4, 11.2)*** | ***10.4 (10.0, 10.8)*** | ***5.3 (5.0, 5.6)*** | ***<0.0001*** |
| ***Demographic Health Survey Datasets: Sub-Saharan Africa (b)*** | | | | | | | |
| Angola | 6,268 | 17.7 (15.1, 20.5) | 29.3 (26.2, 32.7) | 20.2 (17.5, 23.2) | 7.7 (6.0, 9.8) | 3.0 (2.0, 4.5) | *<0.0001* |
| Benin | 11,626 | 16.7 (14.8, 18.8) | 18.4 (16.4, 20.6) | 12.6 (10.9, 14.5) | 5.0 (3.9, 6.3) | 1.6 (1.0, 2.4) | *<0.0001* |
| Cameroon | 4,435 | 16.5 (13.5, 20.0) | 38.5 (34.3, 42.8) | 32.6 (28.7, 36.8) | 9.8 (7.5, 12.7) | 5.1 (3.5, 7.4) | *<0.0001* |
| Congo | 4,464 | 11.1 (8.7, 14.1) | 21.3 (18.0, 25.0) | 16.8 (13.8, 20.2) | 5.5 (3.8, 7.8) | 4.3 (2.9, 6.5) | *0.03* |
| Ethiopia | 5,055 | 16.0 (13.2, 19.3) | 21.4 (18.2, 25.0) | 15.8 (13.0, 19.1) | 5.8 (4.1, 8.0) | 2.2 (1.2, 3.8) | *<0.0001* |
| Gambia | 3,805 | 7.8 (5.8, 10.4) | 23.2 (20.0, 27.0) | 15.6 (12.7, 19.0) | 2.9 (1.7, 4.7) | 1.3 (0.4, 2.8) | *0.03* |
| Ghana | 2,682 | 5.7 (3.7, 8.8) | 13.3 (10.0, 17.4) | 10.8 (7.9, 14.7) | 3.0 (1.6, 5.5) | 1.2 (0.6, 3.2) | *<0.0001* |
| Kenya | 17,280 | 10.1 (8.8, 11.4) | 30.6 (28.5, 32.7) | 23.6 (21.7, 25.5) | 5.0 (4.1, 6.0) | 2.3 (1.7, 3.1) | *<0.0001* |
| Liberia | 2,439 | 20.1 (15.7, 25.3) | 42.3 (36.6, 48.3) | 29.6 (24.4, 35.3) | 14.2 (10.6, 18.9) | 8.0 (5.3, 11.9) | *<0.0001* |
| Malawi | 5,110 | 20.9 (17.5, 24.8) | 38.8 (34.5, 43.2) | 30.3 (26.3, 34.6) | 12.7 (10.0, 15.9) | 7.9 (5.8, 10.7) | *<0.0001* |
| Mali | 8,202 | 12.6 (10.6, 14.8) | 15.1 (13.0, 17.6) | 11.8 (9.9, 14.0) | 3.9 (2.8, 5.3) | 1.6 (0.9, 2.7) | *<0.0001* |
| Mozambique | 9,251 | 23.5 (21.0, 26.2) | 34.9 (32.0, 37.9) | 26.3 (23.8, 29.2) | 13.9 (11.9, 16.2) | 8.9 (7.3, 10.9) | *<0.0001* |
| Nigeria | 11,308 | 18.0 (15.9, 20.3) | 20.0 (17.8, 22.4) | 14.7 (12.7, 16.8) | 4.5 (3.5, 5.9) | 12.8 (0.7, 2.1) | *<0.0001* |
| Tanzania | 4,791 | 16.9 (14.0, 20.3) | 39.5 (35.5, 43.7) | 30.7 (27.0, 34.7) | 9.4 (7.2, 12.1) | 5.9 (4.2, 8.2) | *<0.0001* |
| ***Pooled*** | ***91,925*** | ***15.2 (14.5, 15.9)*** | ***25.9 (25.1, 26.7)*** | ***19.4 (18.7, 20.2)*** | ***6.6 (6.2, 7.1)*** | ***3.3 (3.0, 3.7)*** | ***<0.0001*** |
| ***Grand Pooled (a + b)*** | ***314,187*** | ***20.1 (19.6, 20.5)*** | ***20.5 (20.1, 21.0)*** | ***14.0 (13.6, 14.4)*** | ***9.1 (8.8, 9.4)*** | ***4.7 (4.4, 4.9)*** | ***<0.0001*** |

**Table 2:** Concurrence of stunting and possible risk of overweight (CSPO) defined through weight for height and BMI-for-age in 0-6 months children from 21 countries.

***#****P-values calculated between the prevalence of CSPO\_WHZ and CSPO\_BMIZ using Mc-Nemar test*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Datasets** | **Sample Size (N)** | **Prevalence of Stunting (95% CI)** | **Prevalence of Possible Risk of Overweight defined through weight for height (95% CI)** | **Prevalence of Possible Risk of Overweight defined through BMI for age**  **(95% CI)** | **Prevalence of CSPO\_WHZ (95% CI)** | **Prevalence of CSPO\_BMIZ (95% CI)** | ***P-value#*** |
| ***Demographic Health Survey Datasets: South and South-East Asia (a)*** | | | | | | | |
| Bangladesh | 7,711 | 33.0 (31.9, 34.2) | 7.5 (6.9, 8.2) | 9.5 (8.8, 10.2) | 1.84 (1.5, 2.2) | 3.13 (2.7, 3.6) | *<0.0001* |
| Cambodia | 3,747 | 34.8 (33.3, 36.3) | 10.0 (9.0, 11.0) | 12.1 (11.1, 13.2) | 3.25 (2.7, 3.9) | 4.54 (3.9, 5.3) | *<0.0001* |
| India | 197,651 | 37.2 (37.1, 37.5) | 8.94 (8.8, 9.1) | 11.4 (11.2, 11.5) | 4.49 (4.4, 4.6) | 6.42 (6.3, 6.5) | *<0.0001* |
| Maldives | 2,342 | 14.6 (13.2, 16.2) | 13.4 (12.0, 14.9) | 14.2 (12.8, 15.8) | 1.85 (1.4, 2.5) | 2.36 (1.8, 3.1) | *0.002* |
| Myanmar | 4,146 | 33.5 (32.0, 35.0) | 6.4 (5.6, 7.2) | 9.5 (8.6, 10.5) | 1.70 (1.3, 2.2) | 3.79 (3.2, 4.5) | *<0.0001* |
| Nepal | 2,586 | 28.6 (26.8, 30.5) | 5.1 (4.3, 6.1) | 6.7 (5.8, 7.8) | 0.78 (0.5, 1.2) | 1.80 (1.3, 2.4) | *<0.0001* |
| Pakistan | 4,079 | 41.0 (39.4, 42.6) | 13.8 (12.7, 14.9) | 18.6 (17.3, 20.0) | 5.86 (5.1, 6.7) | 9.88 (9.0, 10.9) | *<0.0001* |
| ***Pooled*** | ***222,262*** | ***36.5 (36.3, 36.7)*** | ***9.0 (8.8, 9.1)*** | ***11.4 (11.3, 11.5)*** | ***4.28 (4.2, 4.4)*** | ***6.19 (6.1, 6.3)*** | ***<0.0001*** |
| ***Demographic Health Survey Datasets: Sub-Saharan Africa (b)*** | | | | | | | |
| Angola | 6,268 | 40.4 (39.1, 41.2) | 13.0 (12.1, 13.9) | 17.1 (16.2, 18.2) | 5.01 (4.5, 5.6) | 8.03 (7.3, 8.8) | *<0.0001* |
| Benin | 11,626 | 34.0 (33.1, 35.0) | 9.0 (8.4, 9.5) | 12.2 (11.5, 12.8) | 2.96 (2.6, 3.3) | 5.16 (4.7, 5.6) | *<0.0001* |
| Cameroon | 4,435 | 29.6 (28.2, 31.1) | 31.5 (30.1, 33.0) | 35.9 (34.4, 37.4) | 9.68 (8.8, 10.6) | 12.6 (11.6, 13.7) | *<0.0001* |
| Congo | 4,464 | 29.1 (27.7, 30.1) | 12.2 (11.2, 13.2) | 15.0 (13.9, 16.1) | 3.84 (3.3, 4.5) | 5.62 (4.9, 6.4) | *<0.0001* |
| Ethiopia | 5,055 | 38.4 (37.0, 39.8) | 8.1 (7.4, 9.0) | 10.6 (9.8, 11.6) | 2.80 (2.4, 3.3) | 4.58 (4.0, 5.2) | *<0.0001* |
| Gambia | 3,805 | 20.0 (18.6, 21.4) | 6.3 (5.5, 7.2) | 8.0 (7.1, 9.0) | 0.88 (0.6, 1.3) | 1.83 (1.4, 2.3) | *<0.0001* |
| Ghana | 2,682 | 20.9 (19.3, 22.5) | 10.3 (9.1, 11.5) | 12.9 (11.6, 14.3) | 2.60 (2.0, 3.3) | 4.04 (3.3, 4.9) | *<0.0001* |
| Kenya | 17,280 | 18.9 (18.3, 19.5) | 10.2 (9.8, 10.7) | 12.1 (11.6, 12.6) | 1.29 (1.1, 1.5) | 2.33 (2.1, 2.6) | *<0.0001* |
| Liberia | 2,439 | 33.9 (31.9, 35.9) | 14.7 (13.3, 16.3) | 18.8 (17.3, 20.5) | 5.22 (4.4, 6.2) | 7.94 (6.9, 9.2) | *<0.0001* |
| Malawi | 5,110 | 37.0 (35.6, 38.4) | 16.5 (15.5, 17.6) | 22.0 (20.8, 23.2) | 6.05 (5.4, 6.8) | 9.77 (8.9, 10.7) | *<0.0001* |
| Mali | 8,202 | 28.6 (27.6, 29.6) | 7.1 (6.5, 7.7) | 9.4 (8.7, 10.1) | 2.49 (2.2, 2.9) | 4.10 (3.7, 4.6) | *<0.0001* |
| Mozambique | 9,251 | 41.6 (40.6, 42.7) | 25.6 (24.7, 26.5) | 32.2 (31.2, 33.2) | 12.25 (11.6, 13.0) | 17.22 (16.4, 18.0) | *<0.0001* |
| Nigeria | 11,308 | 38.4 (37.4, 39.3) | 10.1 (9.5, 10.7) | 14.4 (13.7, 15.1) | 3.85 (3.5, 4.2) | 7.26 (6.8, 7.8) | *<0.0001* |
| Tanzania | 4,791 | 30.4 (29.0, 31.8) | 14.3 (13.4, 15.5) | 18.9 (17.8, 20.1) | 4.66 (4.1, 5.3) | 7.28 (6.5, 8.1) | *<0.0001* |
| ***Pooled*** | ***91,925*** | ***31.4 (31.1, 31.7)*** | ***12.8 (12.6, 13.1)*** | ***16.3 (16.1, 16.6)*** | ***4.28 (4.2, 4.4)*** | ***6.72 (6.5, 6.9)*** | ***<0.0001*** |
| ***Grand Pooled (a + b)*** | ***314,187*** | ***35.0 (34.8, 35.2)*** | ***10.1 (10.0, 10.2)*** | ***12.9 (12.8, 13.0)*** | ***4.29 (4.2, 4.4)*** | ***6.36 (6.3, 6.5)*** | ***<0.0001*** |

**Table 3:** Concurrence of stunting and possible risk of overweight (CSPO) defined through weight for height and BMI-for-age in 6-59 months children from 21 countries.

***#****P-values calculated between the prevalence of CSPO\_WHZ and CSPO\_BMIZ using Mc-Nemar test*

**Table 4:** Concurrence of stunting and overweight (CSO) defined through weight for height and BMI-for-age in 0-6 months children from 21 countries.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Datasets** | **Sample Size (N)** | **Prevalence of Stunting (95% CI)** | **Prevalence of Overweight defined through weight for height (95% CI)** | **Prevalence of Overweight defined through BMI for age**  **(95% CI)** | **Prevalence of CSO\_WHZ (95% CI)** | **Prevalence of CSO\_BMIZ (95% CI)** | ***P-value#*** |
| ***Demographic Health Survey Datasets: South and South-East Asia (a)*** | | | | | | | |
| Bangladesh | 7,711 | 19.4 (17.0, 22.1) | 3.1 (2.1, 4.4) | 1.3 (0.7, 2.3) | 1.97 (1.2, 3.1) | 0.66 (0.3, 1.5) | *<0.001* |
| Cambodia | 3,747 | 15.2 (11.8, 19.5) | 10.2 (7.3, 13.9) | 6.3 (4.1, 9.4) | 8.06 (5.6, 11.5) | 4.18 (2.5, 6.9) | *<0.001* |
| India | 197,651 | 23.5 (22.9, 24.1) | 8.6 (8.2, 9.0) | 4.0 (3.7, 4.3) | 6.65 (6.3, 7.0) | 2.53 (2.3, 2.8) | *<0.0001* |
| Maldives | 2,342 | 20.9 (15.5, 27.6) | 7.3 (4.3, 12.3) | 2.3 (0.8, 5.9) | 5.65 (3.1, 10.2) | 1.69 (0.5, 5.2) | *0.02* |
| Myanmar | 4,146 | 7.2 (5.1, 10.1) | 6.1 (4.2, 8.8) | 3.7 (2.3, 6.0) | 1.63 (0.7, 3.4) | 0.47 (0.1, 1.8) | *0.03* |
| Nepal | 2,586 | 17.4 (13.2, 22.7) | 6.1 (3.7, 9.9) | 1.6 (0.6, 4.3) | 2.02 (0.8, 4.5) | 0.41 (0.0, 2.8) | *0.13* |
| Pakistan | 4,079 | 17.8 (14.5, 21.8) | 6.8 (4.8, 9.6) | 4.9 (3.2, 7.5) | 3.76 (2.3, 6.1) | 1.64 (0.8, 3.4) | *0.003* |
| ***Pooled*** | ***222,262*** | ***22.6 (22.1, 23.2)*** | ***8.2 (7.9, 8.6)*** | ***3.9 (3.7, 4.2)*** | ***6.23 (5.9, 6.6)*** | ***2.37 (2.2. 2.6)*** | ***<0.0001*** |
| ***Demographic Health Survey Datasets: Sub-Saharan Africa (b)*** | | | | | | | |
| Angola | 6,268 | 17.7 (15.1, 20.5) | 10.5 (8.5, 12.9) | 5.8 (4.3, 7.7) | 3.27 (2.2, 4.8) | 1.18 (0.6, 2.3) | *<0.0001* |
| Benin | 11,626 | 16.7 (14.8, 18.8) | 5.9 (4.7, 7.2) | 2.3 (1.6, 3.2) | 1.85 (1.3, 2.7) | 0.15 (0.0, 0.5) | *<0.0001* |
| Cameroon | 4,435 | 16.5 (13.5, 20.0) | 16.6 (13.6, 20.1) | 13.4 (10.7, 16.6) | 5.11 (3.5, 7.4) | 2.16 (1.2, 3.9) | *<0.001* |
| Congo | 4,464 | 11.1 (8.7, 14.1) | 7.9 (5.9, 10.6) | 5.1 (3.5, 7.3) | 4.34 (2.9, 6.5) | 1.32 (0.6, 2.7) | *<0.001* |
| Ethiopia | 5,055 | 16.0 (13.2, 19.3) | 4.9 (3.3, 7.0) | 3.8 (2.5, 5.7) | 1.44 (0.7, 2.9) | 0.53 (0.2, 1.7) | *0.06* |
| Gambia | 3,805 | 7.8 (5.8, 10.4) | 6.7 (4.8, 9.1) | 3.0 (1.9, 4.9) | 1.14 (0.5, 2.5) | 0.19 (0.0, 1.3) | *0.06* |
| Ghana | 2,682 | 5.7 (3.7, 8.8) | 2.4 (1.2, 4.8) | 1.2 (0.4, 3.2) | 0.60 (0.2, 2.4) | 0.30 (0.0, 2.1) | *0.317* |
| Kenya | 17,280 | 10.1 (8.8, 11.4) | 9.0 (7.8, 10.4) | 6.2 (5.2, 7.5) | 2.48 (1.9, 3.3) | 1.08 (0.7, 1.7) | *<0.0001* |
| Liberia | 2,439 | 20.1 (15.7, 25.3) | 18.6 (14.4, 23.7) | 8.0 (5.3, 11.9) | 7.66 (5.0, 11.5) | 1.10 (0.4, 3.4) | *<0.0001* |
| Malawi | 5,110 | 20.9 (17.5, 24.8) | 15.2 (12.3, 18.7) | 9.8 (7.4, 12.7) | 6.85 (4.9, 9.5) | 2.90 (1.7, 4.9) | *<0.0001* |
| Mali | 8,202 | 12.6 (10.6, 14.8) | 4.0 (2.9, 5.4) | 1.8 (1.1, 2.9) | 1.82 (1.1, 2.9) | 0.64 (0.3, 1.4) | *<0.001* |
| Mozambique | 9,251 | 23.5 (21.0, 26.2) | 18.0 (15.7, 20.5) | 11.8 (9.9, 14.0) | 9.62 (7.9, 11.6) | 4.66 (3.5, 6.2) | *<0.0001* |
| Nigeria | 11,308 | 18.0 (15.9, 20.3) | 5.5 (4.3, 6.9) | 3.2 (2.4, 4.4) | 1.36 (0.8, 2.2) | 0.18 (0.0, 0.7) | *<0.001* |
| Tanzania | 4,791 | 16.9 (14.0, 20.3) | 14.2 (11.5, 17.4) | 7.9 (5.9, 10.5) | 4.96 (3.4, 7.1) | 2.21 (1.3, 3.8) | *<0.001* |
| ***Pooled*** | ***91,925*** | ***15.2 (14.5, 15.9)*** | ***9.0 (8.5, 9.6)*** | ***5.5 (5.1, 6.0)*** | ***3.35 (3.0, 3.7)*** | ***1.22 (1.0, 1.5)*** | ***<0.0001*** |
| ***Grand Pooled (a + b)*** | ***314,187*** | ***20.1 (19.6, 20.5)*** | ***8.6 (8.3, 8.9)*** | ***4.5 (4.3, 4.8)*** | ***5.26 (5.0, 5.5)*** | ***1.99 (1.8, 2.2)*** | ***<0.0001*** |

***#****P-values calculated between the prevalence of CSO\_WHZ and CSO\_BMIZ using Mc-Nemar test*

**Table 5:** Concurrence of stunting and overweight (CSO) defined through weight for height and BMI-for-age in 6-59 months children from 21 countries.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Datasets** | **Sample Size (N)** | **Prevalence of Stunting (95% CI)** | **Prevalence of Overweight defined through weight for height (95% CI)** | **Prevalence of Overweight defined through BMI for age**  **(95% CI)** | **Prevalence of CSO\_WHZ (95% CI)** | **Prevalence of CSO\_BMIZ (95% CI)** | ***P-value#*** |
| ***Demographic Health Survey Datasets: South and South-East Asia (a)*** | | | | | | | |
| Bangladesh | 7,711 | 33.0 (31.9, 34.2) | 1.7 (1.4, 2.0) | 2.2 (1.9, 2.6) | 0.32 (0.2, 0.5) | 0.71 (0.5, 0.9) | *<0.0001* |
| Cambodia | 3,747 | 34.8 (33.3, 36.3) | 3.5 (2.9, 4.2) | 4.1 (3.5, 4.8) | 1.32 (1.0, 1.8) | 1.93 (1.5, 2.5) | *<0.0001* |
| India | 197,651 | 37.2 (37.1, 37.5) | 3.1 (3.0, 3.2) | 4.0 (3.9, 4.1) | 1.80 (1.7, 1.9) | 2.62 (2.5, 2.7) | *<0.0001* |
| Maldives | 2,342 | 14.6 (13.2, 16.2) | 4.4 (3.6, 5.3) | 5.3 (4.4, 6.3) | 0.55 (0.3, 1.0) | 1.20 (0.8, 1.8) | *<0.001* |
| Myanmar | 4,146 | 33.5 (32.0, 35.0) | 1.0 (0.6, 1.3) | 1.4 (1.1, 1.9) | 0.40 (0.2, 0.7) | 0.67 (0.5, 1.0) | *0.002* |
| Nepal | 2,586 | 28.6 (26.8, 30.5) | 0.6 (0.4, 1.1) | 0.6 (0.4, 1.1) | 1.00 (0.9, 1.1) | 0.04 (0.0, 0.3) | *0.317* |
| Pakistan | 4,079 | 41.0 (39.4, 42.6) | 2.5 (2.1, 3.1) | 3.9 (3.3, 4.6) | 1.48 (1.1, 1.9) | 2.55 (2.1, 3.1) | *<0.0001* |
| ***Pooled*** | ***222,262*** | ***36.5 (36.3, 36.7)*** | ***3.0 (2.9, 3.1)*** | ***3.9 (3.8, 4.0)*** | ***1.67 (1.6, 1.7)*** | ***2.46 (2.4, 2.5)*** | ***<0.0001*** |
| ***Demographic Health Survey Datasets: Sub-Saharan Africa (b)*** | | | | | | | |
| Angola | 6,268 | 40.4 (39.1, 41.2) | 2.5 (2.1, 2.9) | 3.7 (3.3, 4.3) | 1.22 (1.0, 1.5) | 2.11 (1.8, 2.5) | *<0.0001* |
| Benin | 11,626 | 34.0 (33.1, 35.0) | 1.3 (1.1, 1.6) | 1.9 (1.6, 2.2) | 0..52 (0.4, 0.7) | 0.95 (0.8, 1.2) | *<0.0001* |
| Cameroon | 4,435 | 29.6 (28.2, 31.1) | 9.7 (8.8, 10.7) | 12.7 (11.7, 13.8) | 3.69 (3.1, 4.3) | 5.94 (5.2, 6.7) | *<0.0001* |
| Congo | 4,464 | 29.1 (27.7, 30.1) | 2.8 (2.3, 3.4) | 3.8 (3.3, 4.5) | 1.07 (0.8, 1.4) | 1.96 (1.6, 2.4) | *<0.0001* |
| Ethiopia | 5,055 | 38.4 (37.0, 39.8) | 1.4 (1.1, 1.7) | 2.0 (1.6, 2.4) | 0.53 (0.4, 0.8) | 1.07 (0.8, 1.4) | *<0.0001* |
| Gambia | 3,805 | 20.0 (18.6, 21.4) | 1.0 (0.7, 1.5) | 1.3 (0.9, 1.7) | 0.18 (0.0, 0.4) | 0.24 (0.1, 0.5) | *0.414* |
| Ghana | 2,682 | 20.9 (19.3, 22.5) | 2.3 (1.8, 3.0) | 2.8 (2.2, 3.6) | 0.89 (0.6, 1.4) | 1.28 (0.9, 1.8) | *0.003* |
| Kenya | 17,280 | 18.9 (18.3, 19.5) | 1.9 (1.7, 2.1) | 2.3 (2.0, 2.5) | 0.26 (0.2, 0.4) | 0.42 (0.3, 0.5) | *<0.0001* |
| Liberia | 2,439 | 33.9 (31.9, 35.9) | 2.4 (1.8, 3.1) | 3.7 (3.0, 4.6) | 0.88 (0.6, 1.4) | 1.89 (1.4, 2.6) | *<0.0001* |
| Malawi | 5,110 | 37.0 (35.6, 38.4) | 3.1 (2.6, 3.6) | 4.4 (3.8, 5.0) | 1.38 (1.1, 1.8) | 2.31 (1.9, 2.8) | *<0.0001* |
| Mali | 8,202 | 28.6 (27.6, 29.6) | 1.8 (1.5, 2.2) | 2.2 (1.9, 2.6) | 0.95 (0.8, 1.2) | 1.31 (1.1, 1.6) | *<0.0001* |
| Mozambique | 9,251 | 41.6 (40.6, 42.7) | 6.5 (5.9, 7.0) | 9.4 (8.8, 10.0) | 3.74 (3.3, 4.2) | 6.1 (5.6, 6.6) | *<0.0001* |
| Nigeria | 11,308 | 38.4 (37.4, 39.3) | 1.5 (1.3, 1.7) | 2.4 (2.1, 2.7) | 0.69 (0.5, 0.9) | 1.45 (1.2, 1.7) | *<0.0001* |
| Tanzania | 4,791 | 30.4 (29.0, 31.8) | 1.5 (1.3, 1.7) | 3.8 (3.3, 4.4) | 0.85 (0.6, 1.2) | 1.77 (1.4, 2.2) | *<0.0001* |
| ***Pooled*** | ***91,925*** | ***31.4 (31.1, 31.7)*** | ***2.7 (2.6, 2.8)*** | ***3.8 (3.6, 3.9)*** | ***1.14 (1.1, 1.2)*** | ***1.92 (1.8, 2.0)*** | ***<0.0001*** |
| ***Grand Pooled (a + b)*** | ***314,187*** | ***35.0 (34.8, 35.2)*** | ***2.9 (2.8, 3.0)*** | ***3.9 (3.8, 4.0)*** | ***1.51 (1.5, 1.6)*** | ***2.30 (2.2, 2.4)*** | ***<0.0001*** |

***#****P-values calculated between the prevalence of CSO\_WHZ and CSO\_BMIZ using Mc-Nemar test*