Table : WHO Motor Milestones, Year 1 (Bangladesh)

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHO Motor Milestones | Sum Total | alpha-1 antitrypsin (3 mo) | 809 | -1.48 | -0.24 | <0.01 (-0.11, 0.12) | 0.943 |
| WHO Motor Milestones | Milestones 2,4,5,6 | alpha-1 antitrypsin (3 mo) | 809 | -1.48 | -0.24 | -0.03 (-0.23, 0.17) | 0.755 |
| WHO Motor Milestones | Sum Total | myeloperoxidase (3 mo) | 811 | 8.35 | 9.85 | 0.06 (-0.07, 0.18) | 0.360 |
| WHO Motor Milestones | Milestones 2,4,5,6 | myeloperoxidase (3 mo) | 811 | 8.35 | 9.85 | 0.06 (-0.05, 0.16) | 0.279 |
| WHO Motor Milestones | Sum Total | neopterin (3 mo) | 812 | 6.81 | 7.75 | 0.05 (-0.08, 0.18) | 0.440 |
| WHO Motor Milestones | Milestones 2,4,5,6 | neopterin (3 mo) | 812 | 6.81 | 7.75 | 0.07 (-0.05, 0.18) | 0.255 |
| WHO Motor Milestones | Sum Total | lactulose (3 mo) | 988 | -1.55 | -0.01 | -0.25 (-0.5, -0.01) | 0.041 |
| WHO Motor Milestones | Milestones 2,4,5,6 | lactulose (3 mo) | 995 | -1.56 | -0.02 | -0.1 (-0.21, <0.01) | 0.053 |
| WHO Motor Milestones | Sum Total | mannitol (3 mo) | 988 | 0.68 | 2.12 | -0.22 (-0.36, -0.08) | 0.002 |
| WHO Motor Milestones | Milestones 2,4,5,6 | mannitol (3 mo) | 995 | 0.68 | 2.11 | -0.1 (-0.2, 0.01) | 0.064 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |

Table : WHO Motor Milestones, Year 1 (Kenya)

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHO Motor Milestones | Milestones 2,4,5,6 | alpha-1 antitrypsin (6 mo) | 1,001 | -1.30 | -0.04 | 0.04 (-0.04, 0.13) | 0.316 |
| WHO Motor Milestones | Sum Total | alpha-1 antitrypsin (6 mo) | 1,001 | -1.30 | -0.04 | 0.01 (-0.07, 0.1) | 0.797 |
| WHO Motor Milestones | Milestones 2,4,5,6 | myeloperoxidase (6 mo) | 1,002 | 7.41 | 8.90 | 0.02 (-0.05, 0.09) | 0.596 |
| WHO Motor Milestones | Sum Total | myeloperoxidase (6 mo) | 1,002 | 7.41 | 8.90 | 0.01 (-0.07, 0.09) | 0.820 |
| WHO Motor Milestones | Milestones 2,4,5,6 | neopterin (6 mo) | 1,003 | 7.11 | 7.96 | 0.07 (-0.02, 0.16) | 0.156 |
| WHO Motor Milestones | Sum Total | neopterin (6 mo) | 1,003 | 7.11 | 7.96 | 0.07 (-0.03, 0.17) | 0.177 |
| WHO Motor Milestones | Milestones 2,4,5,6 | lactulose (6 mo) | 1,083 | -2.24 | -0.85 | 0.01 (-0.06, 0.08) | 0.707 |
| WHO Motor Milestones | Sum Total | lactulose (6 mo) | 1,083 | -2.24 | -0.85 | 0.01 (-0.07, 0.08) | 0.887 |
| WHO Motor Milestones | Milestones 2,4,5,6 | mannitol (6 mo) | 1,083 | -0.06 | 1.29 | 0.02 (-0.05, 0.09) | 0.574 |
| WHO Motor Milestones | Sum Total | mannitol (6 mo) | 1,083 | -0.06 | 1.29 | 0.02 (-0.06, 0.1) | 0.621 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |

Table : Communicative Development Inventories (Bangladesh)

| CDI Year | Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year 1 | Communicative Development Inventory | Understanding | alpha-1 antitrypsin (3 mo) | 800 | -1.48 | -0.23 | -0.03 (-0.25, 0.19) | 0.787 |
| Communicative Development Inventory | Expressing | alpha-1 antitrypsin (3 mo) | 796 | -1.48 | -0.22 | -0.07 (-0.24, 0.1) | 0.435 |
| Communicative Development Inventory | Understanding | myeloperoxidase (3 mo) | 802 | 8.35 | 9.85 | -0.04 (-0.14, 0.06) | 0.450 |
| Communicative Development Inventory | Expressing | myeloperoxidase (3 mo) | 798 | 8.36 | 9.87 | <0.01 (-0.1, 0.1) | 0.975 |
| Communicative Development Inventory | Understanding | neopterin (3 mo) | 803 | 6.80 | 7.75 | 0.23 (0.07, 0.39) | 0.005 |
| Communicative Development Inventory | Expressing | neopterin (3 mo) | 799 | 6.80 | 7.75 | 0.03 (-0.19, 0.25) | 0.828 |
| Communicative Development Inventory | Understanding | lactulose (3 mo) | 983 | -1.56 | -0.01 | -0.15 (-0.3, -0.01) | 0.038 |
| Communicative Development Inventory | Expressing | lactulose (3 mo) | 980 | -1.56 | -0.01 | -0.15 (-0.31, 0.01) | 0.059 |
| Communicative Development Inventory | Understanding | mannitol (3 mo) | 983 | 0.67 | 2.11 | -0.12 (-0.26, 0.01) | 0.069 |
| Communicative Development Inventory | Expressing | mannitol (3 mo) | 980 | 0.67 | 2.12 | -0.12 (-0.28, 0.03) | 0.108 |
| Year 2 | Communicative Development Inventory | Understanding | alpha-1 antitrypsin (3 mo) | 703 | -1.45 | -0.21 | -0.02 (-0.11, 0.07) | 0.654 |
| Communicative Development Inventory | Expressing | alpha-1 antitrypsin (3 mo) | 709 | -1.45 | -0.21 | <0.01 (<0.01, <0.01) | 0.002 |
| Communicative Development Inventory | Understanding | myeloperoxidase (3 mo) | 704 | 8.38 | 9.91 | -0.01 (-0.12, 0.09) | 0.786 |
| Communicative Development Inventory | Expressing | myeloperoxidase (3 mo) | 710 | 8.37 | 9.90 | <0.01 (-0.11, 0.11) | 1.000 |
| Communicative Development Inventory | Understanding | neopterin (3 mo) | 705 | 6.83 | 7.75 | 0.08 (-0.02, 0.18) | 0.101 |
| Communicative Development Inventory | Expressing | neopterin (3 mo) | 711 | 6.82 | 7.75 | 0.09 (-0.02, 0.2) | 0.101 |
| Communicative Development Inventory | Understanding | lactulose (3 mo) | 873 | -1.56 | -0.03 | 0.06 (-0.15, 0.27) | 0.570 |
| Communicative Development Inventory | Expressing | lactulose (3 mo) | 881 | -1.57 | -0.03 | 0.09 (-0.13, 0.31) | 0.429 |
| Communicative Development Inventory | Understanding | mannitol (3 mo) | 873 | 0.69 | 2.10 | 0.01 (-0.17, 0.2) | 0.913 |
| Communicative Development Inventory | Expressing | mannitol (3 mo) | 881 | 0.69 | 2.10 | -0.02 (-0.22, 0.18) | 0.856 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |

Table : Extended Ages and Stages Questionnaire, Year 2 (Bangladesh)

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Extended Ages and Stages (Year 2) | Personal Social | lactulose (3 mo) | 868 | -1.57 | -0.03 | 0.02 (-0.21, 0.26) | 0.858 |
| Extended Ages and Stages (Year 2) | Motor | lactulose (3 mo) | 861 | -1.56 | -0.02 | 0.05 (-0.05, 0.15) | 0.322 |
| Extended Ages and Stages (Year 2) | Combined | lactulose (3 mo) | 866 | -1.57 | -0.03 | 0.03 (-0.07, 0.13) | 0.530 |
| Extended Ages and Stages (Year 2) | Communication | lactulose (3 mo) | 867 | -1.57 | -0.03 | 0.03 (-0.06, 0.13) | 0.522 |
| Extended Ages and Stages (Year 2) | Personal Social | mannitol (3 mo) | 868 | 0.69 | 2.11 | -0.02 (-0.12, 0.09) | 0.770 |
| Extended Ages and Stages (Year 2) | Motor | mannitol (3 mo) | 861 | 0.69 | 2.12 | 0.04 (-0.06, 0.14) | 0.437 |
| Extended Ages and Stages (Year 2) | Combined | mannitol (3 mo) | 866 | 0.69 | 2.11 | 0.03 (-0.08, 0.14) | 0.591 |
| Extended Ages and Stages (Year 2) | Communication | mannitol (3 mo) | 867 | 0.69 | 2.11 | 0.02 (-0.08, 0.12) | 0.672 |
| Extended Ages and Stages (Year 2) | Personal Social | lactulose (14 mo) | 1,299 | -1.91 | -0.52 | -0.06 (-0.18, 0.07) | 0.401 |
| Extended Ages and Stages (Year 2) | Motor | lactulose (14 mo) | 1,284 | -1.90 | -0.52 | -0.14 (-0.26, -0.01) | 0.030 |
| Extended Ages and Stages (Year 2) | Combined | lactulose (14 mo) | 1,294 | -1.91 | -0.52 | -0.14 (-0.28, >-0.01) | 0.044 |
| Extended Ages and Stages (Year 2) | Communication | lactulose (14 mo) | 1,299 | -1.91 | -0.52 | -0.07 (-0.19, 0.05) | 0.256 |
| Extended Ages and Stages (Year 2) | Personal Social | mannitol (14 mo) | 1,299 | 0.03 | 1.54 | 0.01 (-0.06, 0.08) | 0.782 |
| Extended Ages and Stages (Year 2) | Motor | mannitol (14 mo) | 1,284 | 0.03 | 1.54 | -0.22 (-0.36, -0.07) | 0.003 |
| Extended Ages and Stages (Year 2) | Combined | mannitol (14 mo) | 1,294 | 0.03 | 1.54 | -0.05 (-0.18, 0.08) | 0.484 |
| Extended Ages and Stages (Year 2) | Communication | mannitol (14 mo) | 1,299 | 0.03 | 1.54 | 0.03 (-0.03, 0.1) | 0.344 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |

Table : Extended Ages and Stages Questionnaire, Year 2 (Kenya)

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Extended Ages and Stages | Communication | alpha-1 antitrypsin (6 mo) | 796 | -1.27 | -0.01 | 0.1 (0.01, 0.19) | 0.031 |
| Extended Ages and Stages | Motor | alpha-1 antitrypsin (6 mo) | 816 | -1.27 | -0.02 | -0.01 (-0.1, 0.08) | 0.891 |
| Extended Ages and Stages | Personal Social | alpha-1 antitrypsin (6 mo) | 818 | -1.27 | -0.02 | 0.04 (-0.06, 0.13) | 0.433 |
| Extended Ages and Stages | Combined | alpha-1 antitrypsin (6 mo) | 816 | -1.27 | -0.02 | 0.06 (-0.03, 0.15) | 0.219 |
| Extended Ages and Stages | Communication | lactulose (6 mo) | 861 | -2.25 | -0.85 | 0.1 (-0.07, 0.28) | 0.255 |
| Extended Ages and Stages | Motor | lactulose (6 mo) | 862 | -2.25 | -0.85 | -0.04 (-0.12, 0.03) | 0.279 |
| Extended Ages and Stages | Personal Social | lactulose (6 mo) | 865 | -2.25 | -0.85 | 0.08 (-0.01, 0.16) | 0.082 |
| Extended Ages and Stages | Combined | lactulose (6 mo) | 861 | -2.25 | -0.85 | 0.04 (-0.11, 0.19) | 0.590 |
| Extended Ages and Stages | Communication | mannitol (6 mo) | 861 | -0.05 | 1.31 | 0.06 (-0.02, 0.14) | 0.154 |
| Extended Ages and Stages | Motor | mannitol (6 mo) | 862 | -0.05 | 1.31 | 0.01 (-0.07, 0.08) | 0.895 |
| Extended Ages and Stages | Personal Social | mannitol (6 mo) | 865 | -0.05 | 1.31 | 0.15 (0.04, 0.25) | 0.007 |
| Extended Ages and Stages | Combined | mannitol (6 mo) | 861 | -0.05 | 1.31 | 0.05 (-0.03, 0.13) | 0.199 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |

Table : Individual WHO Motor Milestones - Hazard Ratios, Year 1 (Bangladesh)

| Motor Milestone |  |  | Exposure | n | Q1 | Q3 | Adj. HR (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sitting (w/o support) |  |  | alpha-1 antitrypsin (3 mo) | 803 | -1.4746900 | -0.23833625 | 37.6 (<0.01, 2.2945088155695e+24) | 0.90051065765 |
| Crawling (w/o support) |  |  | alpha-1 antitrypsin (3 mo) | 800 | -1.4741930 | -0.24494817 | 0.97 (0.87, 1.09) | 0.67756063164 |
| Standing (w/ support) |  |  | alpha-1 antitrypsin (3 mo) | 802 | -1.4780525 | -0.24263972 | 0.82 (0.66, 1.02) | 0.07133431567 |
| Walking (w/ support) |  |  | alpha-1 antitrypsin (3 mo) | 801 | -1.4788020 | -0.24610240 | 1.06 (0.94, 1.21) | 0.35958761532 |
| Standing (w/o support) |  |  | alpha-1 antitrypsin (3 mo) | 803 | -1.4786820 | -0.23833625 | 0.99 (0.72, 1.38) | 0.97569146809 |
| Walking (w/o support) |  |  | alpha-1 antitrypsin (3 mo) | 797 | -1.4734160 | -0.23518700 | 1.03 (0.66, 1.6) | 0.91834590283 |
| Sitting (w/o support) |  |  | myeloperoxidase (3 mo) | 805 | 8.3765570 | 9.86996200 | 1347.32 (<0.01, 258874085119330) | 0.59888343463 |
| Crawling (w/o support) |  |  | myeloperoxidase (3 mo) | 802 | 8.3775375 | 9.88230025 | 0.93 (0.79, 1.09) | 0.40101195444 |
| Standing (w/ support) |  |  | myeloperoxidase (3 mo) | 804 | 8.3666788 | 9.87407475 | 0.96 (0.82, 1.12) | 0.60805364450 |
| Walking (w/ support) |  |  | myeloperoxidase (3 mo) | 803 | 8.3636445 | 9.86129400 | 1.04 (0.9, 1.2) | 0.58742300803 |
| Standing (w/o support) |  |  | myeloperoxidase (3 mo) | 805 | 8.3672520 | 9.86996200 | 1.03 (0.87, 1.21) | 0.76904038344 |
| Walking (w/o support) |  |  | myeloperoxidase (3 mo) | 799 | 8.3981085 | 9.87818750 | 1.12 (0.91, 1.38) | 0.28039014319 |
| Sitting (w/o support) |  |  | neopterin (3 mo) | 806 | 6.8074720 | 7.75308100 | 0.01 (<0.01, 40890.33) | 0.59003377849 |
| Crawling (w/o support) |  |  | neopterin (3 mo) | 803 | 6.8074720 | 7.74999750 | 0.92 (0.81, 1.04) | 0.18687461519 |
| Standing (w/ support) |  |  | neopterin (3 mo) | 805 | 6.8074720 | 7.75425900 | 0.94 (0.79, 1.12) | 0.52697804710 |
| Sitting (w/o support) |  |  | lactulose (3 mo) | 987 | -1.5472110 | -0.00937400 | <0.01 (<0.01, 2.49489358046747e+202) | 0.82429221920 |
| Crawling (w/o support) |  |  | lactulose (3 mo) | 984 | -1.5472110 | -0.00482005 | 0.82 (0.65, 1.03) | 0.08430985186 |
| Standing (w/ support) |  |  | lactulose (3 mo) | 987 | -1.5557475 | -0.01458920 | 0.9 (0.78, 1.04) | 0.14811752215 |
| Walking (w/ support) |  |  | lactulose (3 mo) | 986 | -1.5594060 | -0.01393475 | 0.83 (0.62, 1.1) | 0.19941905431 |
| Standing (w/o support) |  |  | lactulose (3 mo) | 980 | -1.5484305 | -0.00482005 | 0.67 (0.47, 0.96) | 0.02920203933 |
| Walking (w/o support) |  |  | lactulose (3 mo) | 980 | -1.5484305 | -0.00482005 | 0.89 (0.72, 1.09) | 0.26587038112 |
| Sitting (w/o support) |  |  | mannitol (3 mo) | 987 | 0.6750588 | 2.11713900 | 0.59 (0.3, 1.16) | 0.12312460477 |
| Crawling (w/o support) |  |  | mannitol (3 mo) | 984 | 0.6758670 | 2.12138675 | 0.74 (0.64, 0.86) | 0.00009605821 |
| Standing (w/ support) |  |  | mannitol (3 mo) | 987 | 0.6750588 | 2.11076300 | 0.85 (0.72, 1) | 0.05031972139 |
| Walking (w/ support) |  |  | mannitol (3 mo) | 986 | 0.6715722 | 2.11201000 | 0.9 (0.78, 1.03) | 0.12572251462 |
| Standing (w/o support) |  |  | mannitol (3 mo) | 980 | 0.6728191 | 2.12466725 | 0.79 (0.63, 0.99) | 0.03620140256 |
| Walking (w/o support) |  |  | mannitol (3 mo) | 980 | 0.6728191 | 2.11519800 | 0.96 (0.79, 1.16) | 0.67085973989 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |

Table : Individual WHO Motor Milestones - Hazard Ratios, Year 1 (Kenya)

| Motor Milestone |  |  | Exposure | n | Q1 | Q3 | Adj. HR (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sitting (w/o support) |  |  | alpha-1 antitrypsin (6 mo) | 1,001 | -1.29893377 | -0.03033113 | 15.07 (<0.01, 2.44626104658165e+31) | 0.944377481 |
| Crawling (w/o support) |  |  | alpha-1 antitrypsin (6 mo) | 973 | -1.29615166 | -0.02687587 | 0.36 (0.17, 0.76) | 0.007628711 |
| Standing (w/ support) |  |  | alpha-1 antitrypsin (6 mo) | 1,005 | -1.29893377 | -0.03033113 | 1.03 (0.9, 1.17) | 0.715857964 |
| Walking (w/ support) |  |  | alpha-1 antitrypsin (6 mo) | 979 | -1.29447283 | -0.03027642 | 0.96 (0.85, 1.1) | 0.578967387 |
| Standing (w/o support) |  |  | alpha-1 antitrypsin (6 mo) | 997 | -1.30729994 | -0.03033113 | 1.08 (0.95, 1.24) | 0.227503538 |
| Walking (w/o support) |  |  | alpha-1 antitrypsin (6 mo) | 978 | -1.29531224 | -0.03024907 | 1.1 (0.95, 1.27) | 0.220350551 |
| Sitting (w/o support) |  |  | myeloperoxidase (6 mo) | 1,002 | 7.40932160 | 8.90052520 | 0.9 (0.53, 1.51) | 0.697488485 |
| Crawling (w/o support) |  |  | myeloperoxidase (6 mo) | 974 | 7.41241724 | 8.90356494 | 0.89 (0.74, 1.06) | 0.192494202 |
| Standing (w/ support) |  |  | myeloperoxidase (6 mo) | 1,006 | 7.40932160 | 8.90356494 | 1.04 (0.92, 1.18) | 0.544294439 |
| Walking (w/ support) |  |  | myeloperoxidase (6 mo) | 980 | 7.40952112 | 8.90256773 | 1.04 (0.89, 1.2) | 0.644681487 |
| Standing (w/o support) |  |  | myeloperoxidase (6 mo) | 998 | 7.40932160 | 8.90154623 | 1.02 (0.9, 1.15) | 0.822992054 |
| Walking (w/o support) |  |  | myeloperoxidase (6 mo) | 979 | 7.40942136 | 8.90306634 | 0.97 (0.85, 1.11) | 0.662538586 |
| Sitting (w/o support) |  |  | neopterin (6 mo) | 1,003 | 7.10361929 | 7.96287391 | 0.58 (0.29, 1.16) | 0.123130574 |
| Crawling (w/o support) |  |  | neopterin (6 mo) | 975 | 7.10620842 | 7.96134175 | 1.01 (0.86, 1.18) | 0.944307783 |
| Standing (w/ support) |  |  | neopterin (6 mo) | 1,007 | 7.10361929 | 7.96134175 | 1.08 (0.97, 1.21) | 0.153170720 |
| Walking (w/ support) |  |  | neopterin (6 mo) | 981 | 7.10519859 | 7.96047056 | 1.01 (0.9, 1.13) | 0.901650707 |
| Standing (w/o support) |  |  | neopterin (6 mo) | 999 | 7.10763298 | 7.96287391 | 1.08 (0.88, 1.33) | 0.483066793 |
| Walking (w/o support) |  |  | neopterin (6 mo) | 980 | 7.10440894 | 7.96090616 | 1.51 (1.06, 2.13) | 0.020885612 |
| Sitting (w/o support) |  |  | lactulose (6 mo) | 1,083 | -2.23836360 | -0.84524327 | 0.17 (<0.01, 139724896194.17) | 0.906051731 |
| Crawling (w/o support) |  |  | lactulose (6 mo) | 1,076 | -2.25007647 | -0.84524327 | 0.9 (0.76, 1.06) | 0.221988620 |
| Standing (w/ support) |  |  | lactulose (6 mo) | 1,083 | -2.25076995 | -0.84524327 | 0.95 (0.84, 1.06) | 0.342228533 |
| Walking (w/ support) |  |  | lactulose (6 mo) | 1,081 | -2.24938299 | -0.84524327 | 1 (0.89, 1.12) | 0.963763019 |
| Standing (w/o support) |  |  | lactulose (6 mo) | 1,078 | -2.23836360 | -0.84524327 | 1.08 (0.96, 1.22) | 0.224899812 |
| Walking (w/o support) |  |  | lactulose (6 mo) | 1,083 | -2.23836360 | -0.84524327 | 1.02 (0.89, 1.16) | 0.816159466 |
| Sitting (w/o support) |  |  | mannitol (6 mo) | 1,083 | -0.06328774 | 1.29483574 | 134.81 (<0.01, 1.11235878732145e+20) | 0.827264691 |
| Crawling (w/o support) |  |  | mannitol (6 mo) | 1,076 | -0.06328774 | 1.29483574 | 0.99 (0.85, 1.15) | 0.884123632 |
| Standing (w/ support) |  |  | mannitol (6 mo) | 1,083 | -0.06328774 | 1.29219892 | 0.97 (0.86, 1.08) | 0.565035943 |
| Walking (w/ support) |  |  | mannitol (6 mo) | 1,081 | -0.06328774 | 1.29408358 | 0.99 (0.88, 1.11) | 0.867825183 |
| Standing (w/o support) |  |  | mannitol (6 mo) | 1,078 | -0.06328774 | 1.29933351 | 1.09 (0.97, 1.23) | 0.154754922 |
| Walking (w/o support) |  |  | mannitol (6 mo) | 1,083 | -0.06328774 | 1.29483574 | 1.04 (0.91, 1.19) | 0.551425423 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | | |

Table : Bangladesh Analyses

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHO Motor Milestones (Year 1) | Sum Total | alpha-1 antitrypsin (3 mo) | 809 | -1.48 | -0.24 | <0.01 (-0.11, 0.12) | 0.943 |
| Milestones 2,4,5,6 | alpha-1 antitrypsin (3 mo) | 809 | -1.48 | -0.24 | -0.03 (-0.23, 0.17) | 0.755 |
| Sum Total | myeloperoxidase (3 mo) | 811 | 8.35 | 9.85 | 0.06 (-0.07, 0.18) | 0.360 |
| Milestones 2,4,5,6 | myeloperoxidase (3 mo) | 811 | 8.35 | 9.85 | 0.06 (-0.05, 0.16) | 0.279 |
| Sum Total | neopterin (3 mo) | 812 | 6.81 | 7.75 | 0.05 (-0.08, 0.18) | 0.440 |
| Milestones 2,4,5,6 | neopterin (3 mo) | 812 | 6.81 | 7.75 | 0.07 (-0.05, 0.18) | 0.255 |
| Sum Total | lactulose (3 mo) | 988 | -1.55 | -0.01 | -0.25 (-0.5, -0.01) | 0.041 |
| Milestones 2,4,5,6 | lactulose (3 mo) | 995 | -1.56 | -0.02 | -0.1 (-0.21, <0.01) | 0.053 |
| Sum Total | mannitol (3 mo) | 988 | 0.68 | 2.12 | -0.22 (-0.36, -0.08) | 0.002 |
| Milestones 2,4,5,6 | mannitol (3 mo) | 995 | 0.68 | 2.11 | -0.1 (-0.2, 0.01) | 0.064 |
| Communicative Development Inventory (Year 1) | Understanding | alpha-1 antitrypsin (3 mo) | 800 | -1.48 | -0.23 | -0.03 (-0.25, 0.19) | 0.787 |
| Expressing | alpha-1 antitrypsin (3 mo) | 796 | -1.48 | -0.22 | -0.07 (-0.24, 0.1) | 0.435 |
| Understanding | myeloperoxidase (3 mo) | 802 | 8.35 | 9.85 | -0.04 (-0.14, 0.06) | 0.450 |
| Expressing | myeloperoxidase (3 mo) | 798 | 8.36 | 9.87 | <0.01 (-0.1, 0.1) | 0.975 |
| Understanding | neopterin (3 mo) | 803 | 6.80 | 7.75 | 0.23 (0.07, 0.39) | 0.005 |
| Expressing | neopterin (3 mo) | 799 | 6.80 | 7.75 | 0.03 (-0.19, 0.25) | 0.828 |
| Understanding | lactulose (3 mo) | 983 | -1.56 | -0.01 | -0.15 (-0.3, -0.01) | 0.038 |
| Expressing | lactulose (3 mo) | 980 | -1.56 | -0.01 | -0.15 (-0.31, 0.01) | 0.059 |
| Understanding | mannitol (3 mo) | 983 | 0.67 | 2.11 | -0.12 (-0.26, 0.01) | 0.069 |
| Expressing | mannitol (3 mo) | 980 | 0.67 | 2.12 | -0.12 (-0.28, 0.03) | 0.108 |
| Extended Ages and Stages (Year 2) | Personal Social | alpha-1 antitrypsin (3 mo) | 698 | -1.45 | -0.21 | 0.02 (-0.08, 0.12) | 0.706 |
| Motor | alpha-1 antitrypsin (3 mo) | 689 | -1.44 | -0.21 | -0.04 (-0.13, 0.05) | 0.419 |
| Combined | alpha-1 antitrypsin (3 mo) | 696 | -1.45 | -0.21 | -0.1 (-0.27, 0.07) | 0.262 |
| Communication | alpha-1 antitrypsin (3 mo) | 696 | -1.45 | -0.21 | -0.08 (-0.24, 0.08) | 0.326 |
| Personal Social | myeloperoxidase (3 mo) | 699 | 8.38 | 9.91 | -0.06 (-0.18, 0.05) | 0.304 |
| Motor | myeloperoxidase (3 mo) | 690 | 8.41 | 9.91 | -0.03 (-0.14, 0.08) | 0.647 |
| Combined | myeloperoxidase (3 mo) | 697 | 8.39 | 9.91 | -0.06 (-0.17, 0.06) | 0.348 |
| Communication | myeloperoxidase (3 mo) | 697 | 8.39 | 9.91 | -0.05 (-0.08, -0.01) | 0.011 |
| Personal Social | neopterin (3 mo) | 700 | 6.83 | 7.76 | 0.07 (-0.04, 0.18) | 0.230 |
| Motor | neopterin (3 mo) | 691 | 6.83 | 7.75 | 0.07 (-0.05, 0.19) | 0.261 |
| Combined | neopterin (3 mo) | 698 | 6.83 | 7.77 | 0.1 (-0.04, 0.25) | 0.171 |
| Communication | neopterin (3 mo) | 698 | 6.83 | 7.76 | 0.19 (-0.01, 0.39) | 0.062 |
| Personal Social | lactulose (3 mo) | 868 | -1.57 | -0.03 | 0.02 (-0.21, 0.26) | 0.858 |
| Motor | lactulose (3 mo) | 861 | -1.56 | -0.02 | 0.05 (-0.05, 0.15) | 0.322 |
| Combined | lactulose (3 mo) | 866 | -1.57 | -0.03 | 0.03 (-0.07, 0.13) | 0.530 |
| Communication | lactulose (3 mo) | 867 | -1.57 | -0.03 | 0.03 (-0.06, 0.13) | 0.522 |
| Personal Social | mannitol (3 mo) | 868 | 0.69 | 2.11 | -0.02 (-0.12, 0.09) | 0.770 |
| Motor | mannitol (3 mo) | 861 | 0.69 | 2.12 | 0.04 (-0.06, 0.14) | 0.437 |
| Combined | mannitol (3 mo) | 866 | 0.69 | 2.11 | 0.03 (-0.08, 0.14) | 0.591 |
| Communication | mannitol (3 mo) | 867 | 0.69 | 2.11 | 0.02 (-0.08, 0.12) | 0.672 |
| Communicative Development Inventory (Year 2) | Understanding | alpha-1 antitrypsin (3 mo) | 703 | -1.45 | -0.21 | -0.02 (-0.11, 0.07) | 0.654 |
| Expressing | alpha-1 antitrypsin (3 mo) | 709 | -1.45 | -0.21 | <0.01 (<0.01, <0.01) | 0.002 |
| Understanding | myeloperoxidase (3 mo) | 704 | 8.38 | 9.91 | -0.01 (-0.12, 0.09) | 0.786 |
| Expressing | myeloperoxidase (3 mo) | 710 | 8.37 | 9.90 | <0.01 (-0.11, 0.11) | 1.000 |
| Understanding | neopterin (3 mo) | 705 | 6.83 | 7.75 | 0.08 (-0.02, 0.18) | 0.101 |
| Expressing | neopterin (3 mo) | 711 | 6.82 | 7.75 | 0.09 (-0.02, 0.2) | 0.101 |
| Understanding | lactulose (3 mo) | 873 | -1.56 | -0.03 | 0.06 (-0.15, 0.27) | 0.570 |
| Expressing | lactulose (3 mo) | 881 | -1.57 | -0.03 | 0.09 (-0.13, 0.31) | 0.429 |
| Understanding | mannitol (3 mo) | 873 | 0.69 | 2.10 | 0.01 (-0.17, 0.2) | 0.913 |
| Expressing | mannitol (3 mo) | 881 | 0.69 | 2.10 | -0.02 (-0.22, 0.18) | 0.856 |
| Extended Ages and Stages (Year 2) | Personal Social | alpha-1 antitrypsin (14 mo) | 1,334 | -1.37 | -0.11 | 0.05 (-0.03, 0.12) | 0.223 |
| Motor | alpha-1 antitrypsin (14 mo) | 1,315 | -1.37 | -0.11 | 0.01 (-0.17, 0.18) | 0.958 |
| Combined | alpha-1 antitrypsin (14 mo) | 1,328 | -1.37 | -0.11 | 0.07 (-0.1, 0.24) | 0.414 |
| Communication | alpha-1 antitrypsin (14 mo) | 1,334 | -1.37 | -0.11 | 0.04 (-0.11, 0.19) | 0.583 |
| Personal Social | myeloperoxidase (14 mo) | 1,334 | 7.91 | 9.24 | -0.01 (-0.09, 0.06) | 0.713 |
| Motor | myeloperoxidase (14 mo) | 1,315 | 7.91 | 9.24 | -0.02 (-0.09, 0.05) | 0.616 |
| Combined | myeloperoxidase (14 mo) | 1,328 | 7.91 | 9.24 | >-0.01 (-0.07, 0.06) | 0.900 |
| Communication | myeloperoxidase (14 mo) | 1,334 | 7.91 | 9.24 | <0.01 (-0.06, 0.07) | 0.914 |
| Personal Social | neopterin (14 mo) | 1,334 | 6.48 | 7.64 | >-0.01 (-0.11, 0.1) | 0.958 |
| Motor | neopterin (14 mo) | 1,315 | 6.47 | 7.64 | 0.03 (-0.04, 0.1) | 0.384 |
| Combined | neopterin (14 mo) | 1,328 | 6.48 | 7.64 | 0.05 (-0.04, 0.14) | 0.296 |
| Communication | neopterin (14 mo) | 1,334 | 6.48 | 7.64 | 0.05 (-0.04, 0.14) | 0.242 |
| Personal Social | lactulose (14 mo) | 1,299 | -1.91 | -0.52 | -0.06 (-0.18, 0.07) | 0.401 |
| Motor | lactulose (14 mo) | 1,284 | -1.90 | -0.52 | -0.14 (-0.26, -0.01) | 0.030 |
| Combined | lactulose (14 mo) | 1,294 | -1.91 | -0.52 | -0.14 (-0.28, >-0.01) | 0.044 |
| Communication | lactulose (14 mo) | 1,299 | -1.91 | -0.52 | -0.07 (-0.19, 0.05) | 0.256 |
| Personal Social | mannitol (14 mo) | 1,299 | 0.03 | 1.54 | 0.01 (-0.06, 0.08) | 0.782 |
| Motor | mannitol (14 mo) | 1,284 | 0.03 | 1.54 | -0.22 (-0.36, -0.07) | 0.003 |
| Combined | mannitol (14 mo) | 1,294 | 0.03 | 1.54 | -0.05 (-0.18, 0.08) | 0.484 |
| Communication | mannitol (14 mo) | 1,299 | 0.03 | 1.54 | 0.03 (-0.03, 0.1) | 0.344 |
| Communicative Development Inventory (Year 2) | Understanding | alpha-1 antitrypsin (14 mo) | 1,337 | -1.36 | -0.11 | 0.19 (0.03, 0.35) | 0.023 |
| Expressing | alpha-1 antitrypsin (14 mo) | 1,354 | -1.36 | -0.11 | 0.19 (0.02, 0.36) | 0.025 |
| Understanding | myeloperoxidase (14 mo) | 1,337 | 7.91 | 9.25 | -0.01 (-0.08, 0.05) | 0.700 |
| Expressing | myeloperoxidase (14 mo) | 1,354 | 7.91 | 9.24 | -0.06 (-0.13, <0.01) | 0.066 |
| Understanding | neopterin (14 mo) | 1,337 | 6.48 | 7.64 | 0.04 (-0.02, 0.1) | 0.228 |
| Expressing | neopterin (14 mo) | 1,354 | 6.48 | 7.64 | 0.05 (-0.01, 0.12) | 0.114 |
| Understanding | lactulose (14 mo) | 1,301 | -1.91 | -0.51 | -0.04 (-0.12, 0.04) | 0.318 |
| Expressing | lactulose (14 mo) | 1,317 | -1.91 | -0.52 | -0.04 (-0.12, 0.05) | 0.414 |
| Understanding | mannitol (14 mo) | 1,301 | 0.03 | 1.54 | 0.03 (-0.05, 0.12) | 0.484 |
| Expressing | mannitol (14 mo) | 1,317 | 0.03 | 1.54 | <0.01 (-0.07, 0.08) | 0.911 |
| Extended Ages and Stages (Year 2) | Personal Social | regenerating gene 1B (14 mo) | 1,332 | 4.70 | 5.48 | -0.01 (-0.05, 0.03) | 0.691 |
| Motor | regenerating gene 1B (14 mo) | 1,313 | 4.70 | 5.48 | 0.02 (-0.02, 0.06) | 0.350 |
| Combined | regenerating gene 1B (14 mo) | 1,326 | 4.71 | 5.48 | 0.01 (-0.03, 0.05) | 0.718 |
| Communication | regenerating gene 1B (14 mo) | 1,332 | 4.71 | 5.48 | >-0.01 (-0.04, 0.04) | 0.972 |
| Communicative Development Inventory (Year 2) | Understanding | regenerating gene 1B (14 mo) | 1,335 | 4.71 | 5.48 | -0.03 (-0.07, 0.01) | 0.134 |
| Expressing | regenerating gene 1B (14 mo) | 1,352 | 4.71 | 5.48 | -0.04 (-0.08, <0.01) | 0.067 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |

Table : Kenya Analyses

| Outcome Domain | Outcome Subdomain | Exposure | n | Q1 | Q3 | Adj. Diff (95% CI) | Adj. P-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHO Motor Milestones (Year 1) | Milestones 2,4,5,6 | alpha-1 antitrypsin (6 mo) | 1,001 | -1.30 | -0.04 | 0.04 (-0.04, 0.13) | 0.316 |
| Sum Total | alpha-1 antitrypsin (6 mo) | 1,001 | -1.30 | -0.04 | 0.01 (-0.07, 0.1) | 0.797 |
| Milestones 2,4,5,6 | myeloperoxidase (6 mo) | 1,002 | 7.41 | 8.90 | 0.02 (-0.05, 0.09) | 0.596 |
| Sum Total | myeloperoxidase (6 mo) | 1,002 | 7.41 | 8.90 | 0.01 (-0.07, 0.09) | 0.820 |
| Milestones 2,4,5,6 | neopterin (6 mo) | 1,003 | 7.11 | 7.96 | 0.07 (-0.02, 0.16) | 0.156 |
| Sum Total | neopterin (6 mo) | 1,003 | 7.11 | 7.96 | 0.07 (-0.03, 0.17) | 0.177 |
| Milestones 2,4,5,6 | lactulose (6 mo) | 1,083 | -2.24 | -0.85 | 0.01 (-0.06, 0.08) | 0.707 |
| Sum Total | lactulose (6 mo) | 1,083 | -2.24 | -0.85 | 0.01 (-0.07, 0.08) | 0.887 |
| Milestones 2,4,5,6 | mannitol (6 mo) | 1,083 | -0.06 | 1.29 | 0.02 (-0.05, 0.09) | 0.574 |
| Sum Total | mannitol (6 mo) | 1,083 | -0.06 | 1.29 | 0.02 (-0.06, 0.1) | 0.621 |
| Extended Ages and Stages (Year 2) | Communication | alpha-1 antitrypsin (6 mo) | 796 | -1.27 | -0.01 | 0.1 (0.01, 0.19) | 0.031 |
| Motor | alpha-1 antitrypsin (6 mo) | 816 | -1.27 | -0.02 | -0.01 (-0.1, 0.08) | 0.891 |
| Personal Social | alpha-1 antitrypsin (6 mo) | 818 | -1.27 | -0.02 | 0.04 (-0.06, 0.13) | 0.433 |
| Combined | alpha-1 antitrypsin (6 mo) | 816 | -1.27 | -0.02 | 0.06 (-0.03, 0.15) | 0.219 |
| Communication | myeloperoxidase (6 mo) | 797 | 7.46 | 8.96 | -0.02 (-0.11, 0.06) | 0.599 |
| Motor | myeloperoxidase (6 mo) | 817 | 7.45 | 8.95 | 0.01 (-0.07, 0.1) | 0.762 |
| Personal Social | myeloperoxidase (6 mo) | 819 | 7.43 | 8.94 | -0.03 (-0.12, 0.06) | 0.516 |
| Combined | myeloperoxidase (6 mo) | 817 | 7.45 | 8.95 | -0.02 (-0.11, 0.06) | 0.605 |
| Communication | neopterin (6 mo) | 798 | 7.12 | 7.96 | 0.07 (-0.06, 0.2) | 0.292 |
| Motor | neopterin (6 mo) | 818 | 7.12 | 7.96 | 0.03 (-0.09, 0.15) | 0.673 |
| Personal Social | neopterin (6 mo) | 820 | 7.12 | 7.96 | 0.04 (-0.1, 0.18) | 0.592 |
| Combined | neopterin (6 mo) | 818 | 7.12 | 7.96 | 0.07 (-0.06, 0.2) | 0.291 |
| Communication | lactulose (6 mo) | 861 | -2.25 | -0.85 | 0.1 (-0.07, 0.28) | 0.255 |
| Motor | lactulose (6 mo) | 862 | -2.25 | -0.85 | -0.04 (-0.12, 0.03) | 0.279 |
| Personal Social | lactulose (6 mo) | 865 | -2.25 | -0.85 | 0.08 (-0.01, 0.16) | 0.082 |
| Combined | lactulose (6 mo) | 861 | -2.25 | -0.85 | 0.04 (-0.11, 0.19) | 0.590 |
| Communication | mannitol (6 mo) | 861 | -0.05 | 1.31 | 0.06 (-0.02, 0.14) | 0.154 |
| Motor | mannitol (6 mo) | 862 | -0.05 | 1.31 | 0.01 (-0.07, 0.08) | 0.895 |
| Personal Social | mannitol (6 mo) | 865 | -0.05 | 1.31 | 0.15 (0.04, 0.25) | 0.007 |
| Combined | mannitol (6 mo) | 861 | -0.05 | 1.31 | 0.05 (-0.03, 0.13) | 0.199 |
| Communication | alpha-1 antitrypsin (17 mo) | 791 | -1.78 | -0.68 | 0.02 (-0.07, 0.11) | 0.638 |
| Motor | alpha-1 antitrypsin (17 mo) | 777 | -1.80 | -0.68 | >-0.01 (-0.07, 0.07) | 0.972 |
| Personal Social | alpha-1 antitrypsin (17 mo) | 1,010 | -1.79 | -0.68 | 0.06 (-0.05, 0.17) | 0.308 |
| Combined | alpha-1 antitrypsin (17 mo) | 760 | -1.80 | -0.68 | 0.04 (-0.07, 0.15) | 0.455 |
| Communication | myeloperoxidase (17 mo) | 791 | 6.52 | 7.90 | 0.04 (-0.11, 0.18) | 0.639 |
| Motor | myeloperoxidase (17 mo) | 777 | 6.52 | 7.90 | <0.01 (-0.08, 0.08) | 0.957 |
| Personal Social | myeloperoxidase (17 mo) | 1,008 | 6.53 | 7.87 | 0.06 (-0.01, 0.14) | 0.108 |
| Combined | myeloperoxidase (17 mo) | 760 | 6.54 | 7.90 | 0.06 (-0.03, 0.14) | 0.179 |
| Communication | neopterin (17 mo) | 791 | 5.25 | 6.95 | 0.02 (-0.07, 0.12) | 0.619 |
| Motor | neopterin (17 mo) | 777 | 5.25 | 6.94 | 0.04 (-0.07, 0.15) | 0.476 |
| Personal Social | neopterin (17 mo) | 1,011 | 5.26 | 6.95 | 0.02 (-0.07, 0.11) | 0.633 |
| Combined | neopterin (17 mo) | 760 | 5.25 | 6.94 | 0.02 (-0.08, 0.12) | 0.707 |
| Communication | lactulose (17 mo) | 831 | -2.68 | -0.98 | <0.01 (-0.15, 0.16) | 0.982 |
| Motor | lactulose (17 mo) | 831 | -2.68 | -0.98 | -0.01 (-0.08, 0.05) | 0.667 |
| Personal Social | lactulose (17 mo) | 1,078 | -2.77 | -0.93 | 0.02 (-0.07, 0.11) | 0.722 |
| Combined | lactulose (17 mo) | 831 | -2.68 | -0.98 | 0.04 (-0.08, 0.15) | 0.518 |
| Communication | mannitol (17 mo) | 831 | -0.42 | 1.18 | 0.05 (-0.05, 0.14) | 0.343 |
| Motor | mannitol (17 mo) | 831 | -0.42 | 1.18 | 0.01 (-0.07, 0.08) | 0.874 |
| Personal Social | mannitol (17 mo) | 1,078 | -0.42 | 1.24 | -0.02 (-0.09, 0.05) | 0.610 |
| Combined | mannitol (17 mo) | 831 | -0.42 | 1.18 | 0.03 (-0.08, 0.13) | 0.633 |
| N, 25th Percentile, and 75th Percentile are from the adjusted analyses | | | | | | | |