EED-Development Tables

WASH Benefits, Bangladesh

14 April 2021

```
bg_tables <- readRDS('tables/all_bangladesh_tables.RDS')</pre>
k_tables <- readRDS('tables/all_kenya_tables.RDS')</pre>
every_hyp <- bind_rows(</pre>
  bg_tables,
  k_{tables}
) %>%
  group by(hyp) %>%
  mutate(`FDR Corrected P-value` = p.adjust(`Adjusted P-value`, "BH"))
every_hyp %>%
  arrange(hyp) %>%
  kable(booktabs = TRUE) %>%
  kable styling(latex options="scale down")
Significant Hypotheses
sig hyp <- every hyp %>%
  filter(`Unadjusted P-value` <= 0.05 | `Adjusted P-value` <= 0.05 | `FDR Corrected P-value` <= 0.05 ) %>%
  mutate(significant_unadj = ifelse(`Unadjusted P-value` <= 0.05, "Unadj.", NA),</pre>
         significant_adj = ifelse(`Adjusted P-value` <= 0.05, 'Adj.', NA),</pre>
         significant_fdr = ifelse(`FDR Corrected P-value` <= 0.05, 'FDR', NA),</pre>
         dir = case_when(str_starts(`Adjusted Difference (95% CI)`,
                                     '-') ~ '-',
                          str_detect(`Adjusted Difference (95% CI)`,
                                     "0,0") ~ "",
                          TRUE ~ '+')) %>%
  unite("signif", significant_unadj, significant_adj, significant_fdr, sep = ', ', na.rm = TRUE) %%
  select ('Outcome Domain', Outcome, Exposure, n, t, 'Adjusted Difference (95% CI)', 'Unadj. P-value' = 'Unadjusted P-value',
         `Adj. P-value` = `Adjusted P-value`, `FDR P-value` = `FDR Corrected P-value`, hyp, signif, dir)
Long Tables
sig hyp %>%
  filter(hyp <= 3) %>%
```

| Outcome Domain | Outcome | Exposure Source | Exposure | t | n | Q1 mean | Q3 mean | Unadjusted Differe | ence (95% CI) | Unadjusted P-value | Adjusted Difference (95% CI) | Adjusted P-value | hyp | FDR Corrected | P-value |
|---|---|---|---|-----------------------|--|--|---|---|---------------|--|--|--|-----------------------|-------------------|--|
| WHO Motor Milestone WHO Motor Milestone WHO Motor Milestone WHO Motor Milestone | Sum Total Milestones 2, 4, 5, 6 Sum Total Milestones 2, 4, 5, 6 | NA NA NA | NA NA NA NA | 1 1 1 | 806 806 808 808 | -1.48000 -1.48000 8.34000 8.34000 | -0.23000 -0.23000 9.86000 9.86000 | -0.01(-0.14,0.12) 0(-0.12,0.11) 0.07(-0.07,0.21) 0.08(-0.05,0.2) | | 0.91000 0.97000 0.35000 0.23000 | 0.03(-0.18,0.24) -0.01(-0.21,0.18) 0.08(-0.04,0.21) 0.08(-0.03,0.18) | 0.77000 0.90000 0.20000 0.17000 | 1 1 1 | 0.9 0.3 0.3 | .8105263 .9000000 .3333333 .3090909 |
| WHO Motor Milestone | Sum Total Milestones 2, 4, 5, 6 Sum Total Milestones 2, 4, 5, 6 Sum Total | NA NA urine urine urine | NA NA lactulose concentration lactulose concentration mannitol concentration | 1 1 1 1 | 809 809 984 991 984 | 6.81000 6.81000 -1.55000 -1.56000 0.68000 | 7.75000 7.75000 -0.01000 -0.02000 2.12000 | 0.26(0.13,0.4) 0.36(0.15,0.58) -0.14(-0.3,0.02) -0.08(-0.22,0.05) -0.17(-0.35,0) | | 0.00000 0.09000 0.24000 0.05000 | 0.14(-0.1,0.37) 0.15(-0.05,0.35) -0.25(-0.49,-0.01) -0.11(-0.21,0) -0.23(-0.36,-0.09) | 0.26000 0.15000 0.04000 0.04000 0.00000 | 1 1 1 1 1 | 0.0 0.1 0.0 | .400000 .3090909 .1333333 .133333 .0000000 |
| WHO Motor Milestone Communicative Development Inventories | Milestones 2, 4, 5, 6 Understanding Expressing Understanding Expressing Understanding | urine NA NA NA NA NA NA | mannitol concentration NA NA NA NA NA NA NA | 1 1 1 1 1 | 991 797 793 799 795 800 | 0.68000 -1.48000 -1.48000 8.34000 8.35000 6.80000 | 2.11000 -0.23000 -0.22000 9.86000 9.88000 7.75000 | -0.12(-0.28,0.04) 0.02(-0.21,0.25) -0.02(-0.18,0.15) -0.04(-0.14,0.06) -0.01(-0.11,0.08) 0.27(0.1,0.44) | | 0.14000 0.87000 0.86000 0.45000 0.77000 0.00000 | -0.1(-0.2,0) -0.04(-0.26,0.18) -0.06(-0.23,0.11) -0.03(-0.14,0.07) 0.02(-0.08,0.12) 0.23(0.07,0.39) | 0.05000 0.71000 0.49000 0.52000 0.67000 0.01000 | 1 1 1 1 1 | 0.° 0.0 0.° | .1428571 .7888889 .6875000 .6875000 .7882353 .1000000 |
| Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories | Expressing Understanding Expressing Understanding Expressing | NA urine urine urine urine | NA lactulose concentration lactulose concentration mannitol concentration mannitol concentration | 1 1 | 796 979 976 979 976 | 6.80000 -1.56000 -1.56000 0.67000 0.67000 | 7.75000 -0.01000 -0.01000 2.11000 2.12000 | 0.09(-0.13,0.3) -0.14(-0.31,0.02) -0.13(-0.28,0.03) -0.08(-0.17,0.01) -0.12(-0.26,0.03) | | 0.45000 0.08000 0.10000 0.10000 0.11000 | 0.07(-0.16,0.3) -0.16(-0.3,-0.01) -0.17(-0.33,-0.01) -0.12(-0.25,0.01) -0.11(-0.27,0.04) | 0.55000 0.03000 0.04000 0.07000 0.16000 | 1 1 1 1 | 0.0 0.1 0.2 | .6875000 .1333333 .1333333 .1750000 .3090909 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Gross Motor Score Combined Combined | NA NA NA NA | NA NA NA NA | 1 1 1 1 | 697 693 697 697 698 | -1.44937 -1.44658 -1.44937 -1.44937 8.37754 | -0.20725 -0.20725 -0.20725 -0.20725 9.90994 | 0.04(-0.1,0.18) -0.04(-0.25,0.18) 0(-0.16,0.16) 0.02(-0.07,0.11) -0.11(-0.22,0) | | 0.57000 0.74000 0.99000 0.65000 0.05000 | $\begin{array}{l} -0.0069(-0.18999,0.17619) \\ -0.03826(-0.1373,0.06077) \\ -0.03126(-0.19437,0.13185) \\ -0.02257(-0.18243,0.1373) \\ -0.06171(-0.18472,0.06131) \end{array}$ | 0.94627 0.45773 0.72032 0.79436 0.33055 | 2 2 2 2 2 | 0.9 0.9 0.9 | .9931017 .8786571 .9552522 .9726857 .8786571 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Combined Combined Personal Social Score | NA NA NA NA | NA NA NA NA NA | 1 1 1 1 | 694 698 698 699 695 | 8.40811 8.37754 8.37754 6.82549 6.82549 | 9.91404 9.90994 9.90994 7.76491 7.75919 | 0.06(-0.18,0.3) -0.08(-0.19,0.02) -0.09(-0.19,0.02) 0.1(-0.01,0.2) 0.07(-0.08,0.21) | | 0.65000 0.13000 0.10000 0.07000 0.39000 | $\begin{array}{c} 0.01076(-0.10432,0.12584) \\ -0.0376(-0.15507,0.07987) \\ -0.0546(-0.16712,0.05792) \\ 0.08711(-0.03186,0.20608) \\ 0.05838(-0.09022,0.20698) \end{array}$ | 0.86470 0.54144 0.34707 0.15172 0.44987 | 2 2 2 2 2 | 0.9 0.8 0.8 | .9931017 .9024000 .8786571 .8786571 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Combined Personal Social Score | NA NA urine urine urine | NA NA lactulose concentration lactulose concentration lactulose concentration | 1 1 1 1 | 699 699 867 862 867 | 6.82549 6.82549 -1.56556 -1.55941 -1.56556 | 7.76491 7.76491 -0.03308 -0.02612 -0.03308 | $\begin{array}{c} 0.24(0.04,0.43) \\ 0.21(0.01,0.41) \\ 0.09(-0.13,0.32) \\ 0.01(-0.07,0.1) \\ -0.01(-0.11,0.08) \end{array}$ | | 0.02000 0.03000 0.42000 0.80000 0.77000 | $\begin{array}{c} 0.11337(-0.00682,0.23356) \\ 0.10444(-0.0138,0.22268) \\ 0.06013(-0.18181,0.30207) \\ 0.122(-0.0088,0.2528) \\ 0.04167(-0.05894,0.14227) \end{array}$ | 0.06409 0.08305 0.63894 0.06714 0.42480 | 2 2 2 2 2 | 8.0 9.0 8.0 | .8056800 .8305000 .9552522 .8056800 .8786571 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Personal Social Score | urine urine urine urine urine | lactulose concentration mannitol concentration mannitol concentration mannitol concentration mannitol concentration | 1 1 1 1 | 867 867 862 867 867 | -1.56556 0.68932 0.69335 0.68932 0.68932 | $\begin{array}{c} -0.03308 \\ 2.10653 \\ 2.11783 \\ 2.10653 \\ 2.10653 \end{array}$ | 0.05(-0.11,0.2) -0.07(-0.16,0.03) 0(-0.08,0.09) -0.02(-0.11,0.07) 0(-0.09,0.09) | | 0.56000 0.18000 0.92000 0.70000 0.99000 | $\begin{array}{c} 0.03498(-0.06316,0.13312) \\ -0.02242(-0.14262,0.09779) \\ 0.08103(-0.05002,0.21209) \\ 0.04662(-0.07971,0.17296) \\ 0.04415(-0.06333,0.15163) \end{array}$ | 0.49464 0.72784 0.22767 0.47888 0.42870 | 2 2 2 2 2 | 2.0 3.0 3.0 | .8786571 .9552522 .8786571 .8786571 |
| Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories | Understanding Expressing Understanding Expressing Understanding | NA NA NA NA | NA NA NA NA NA | | 701 707 702 708 703 | -1.44937 -1.45365 8.37754 8.36668 6.82440 | -0.20725 -0.20948 9.90994 9.89798 7.75919 | -0.01(-0.1,0.07) -0.01(-0.1,0.08) 0.1(-0.1,0.29) 0(-0.15,0.14) 0.07(-0.03,0.16) | | 0.75000 0.80000 0.33000 0.95000 0.16000 | $\begin{array}{l} -0.01436(-0.10524,0.07653) \\ -0.00196(-0.10025,0.09632) \\ -0.00019(-0.11306,0.11268) \\ 0.13891(-0.05937,0.33719) \\ 0.05823(-0.04215,0.15861) \end{array}$ | 0.76960 0.97171 0.99758 0.17053 0.25844 | 2 2 2 2 2 | 0.9 0.9 0.8 | .9620000 .9931017 .9975800 .8786571 |
| Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories | Expressing Understanding Expressing Understanding Expressing | NA urine urine urine urine | NA lactulose concentration lactulose concentration mannitol concentration mannitol concentration | 1 1 1 1 | 709 870 878 870 878 | 6.82154 -1.55941 -1.56402 0.69335 0.69335 | 7.75469 -0.03308 -0.03375 2.09881 2.09881 | $\begin{array}{c} 0.08(-0.02,0.17) \\ 0.11(-0.09,0.3) \\ 0.13(-0.06,0.33) \\ -0.01(-0.19,0.16) \\ 0(-0.08,0.09) \end{array}$ | | 0.10000 0.29000 0.18000 0.88000 0.92000 | $\begin{array}{c} 0.08848(-0.02224,0.19919) \\ 0.07368(-0.13952,0.28688) \\ 0.1162(-0.09917,0.33156) \\ 0.034(-0.15139,0.21939) \\ -0.01037(-0.20929,0.18856) \end{array}$ | 0.11722 0.50835 0.29421 0.73236 0.92536 | 2 2 2 2 2 | 8.0 8.0 9.0 | .8786571 .8786571 .8786571 .9552522 .9931017 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Gross Motor Score Combined Combined | NA NA NA NA | NA NA NA NA NA | 2 2 2 2 2 | 862 857 862 862 862 | -1.37516 -1.38040 -1.37516 -1.37516 7.93369 | -0.11899 -0.11647 -0.11899 -0.11899 9.25159 | 0.06(-0.02,0.13) -0.01(-0.18,0.17) 0.13(-0.05,0.3) 0.13(-0.03,0.29) -0.01(-0.09,0.07) | | 0.14000 0.95000 0.15000 0.11000 0.83000 | $\begin{array}{c} 0.02261(-0.07294,0.11816) \\ -0.01781(-0.1095,0.07387) \\ 0.01735(-0.07303,0.10773) \\ 0.03628(-0.04962,0.12217) \\ -0.01562(-0.10819,0.07694) \end{array}$ | 0.65573 0.71652 0.71989 0.41538 0.75371 | 2 2 2 2 2 | 0.9 0.9 0.0 | .9552522 .9552522 .9552522 .8786571 .9620000 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Combined Combined | NA NA NA NA | NA NA NA NA NA | 2 2 2 2 2 | 857 862 862 862 857 | 7.93272 7.93369 7.93369 6.46301 6.46119 | 9.24637 9.25159 9.25159 7.61475 7.61520 | -0.03(-0.1,0.04) -0.02(-0.09,0.05) -0.01(-0.08,0.06) -0.03(-0.13,0.08) 0.01(-0.05,0.08) | | 0.37000 0.59000 0.77000 0.64000 0.67000 | $\begin{array}{l} -0.05789(-0.14684,0.03106) \\ -0.03013(-0.11815,0.05789) \\ -0.00283(-0.08702,0.08136) \\ 0.00388(-0.11992,0.12768) \\ -0.03072(-0.11825,0.05681) \end{array}$ | $\begin{array}{c} 0.20361 \\ 0.51255 \\ 0.95215 \\ 0.95542 \\ 0.50157 \end{array}$ | 2 2 2 2 2 | 0.9 0.9 0.9 | .8786571 .8786571 .9931017 .9931017 .8786571 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Combined Personal Social Score Gross Motor Score | NA NA urine urine urine | NA NA lactulose concentration lactulose concentration lactulose concentration | | 862 862 846 841 846 | 6.46301 6.46301 -1.86829 -1.86916 -1.86829 | 7.61475 7.61475 -0.49407 -0.49195 -0.49407 | 0.01(-0.09,0.11) 0.04(-0.04,0.13) NA(NA,NA) NA(NA,NA) NA(NA,NA) | | 0.87000 0.29000 NA NA NA | $\begin{array}{c} 0.04539(-0.03667,0.12746) \\ 0.07408(-0.00308,0.15124) \\ -0.10778(-0.29907,0.08352) \\ -0.08429(-0.1647,-0.00387) \\ -0.12585(-0.30234,0.05065) \end{array}$ | 0.28188 0.05947 0.27280 0.03961 0.16292 | 2 2 2 2 2 | 3.0 3.0 3.0 | .8786571 .8056800 .8786571 .8056800 .8786571 |
| Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire | Personal Social Score Gross Motor Score Combined | urine urine urine urine urine | lactulose concentration mannitol concentration mannitol concentration mannitol concentration mannitol concentration | 2 2 | 846 846 841 846 846 | -1.86829 0.06043 0.05813 0.06043 0.06043 | $\begin{array}{c} -0.49407 \\ 1.57921 \\ 1.58064 \\ 1.57921 \\ 1.57921 \end{array}$ | NA(NA,NA) NA(NA,NA) NA(NA,NA) NA(NA,NA) NA(NA,NA) | | NA NA NA NA NA | $\begin{array}{l} -0.02181 \big(-0.13487, 0.09125\big) \\ 0.0038 \big(-0.09393, 0.10153\big) \\ -0.19961 \big(-0.36879, -0.03043\big) \\ -0.00152 \big(-0.09311, 0.09008\big) \\ 0.04206 \big(-0.04649, 0.1306\big) \end{array}$ | 0.71850 0.94448 0.02059 0.97655 0.35775 | 2 2 2 2 2 | 0.0 0.8 0.0 | .9552522 .9931017 .8056800 .9931017 .8786571 |
| Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories Communicative Development Inventories | Understanding Expressing Understanding Expressing Understanding | NA NA NA NA | NA NA NA NA NA | 2 2 2 2 2 | 865 874 865 874 865 | -1.37481 -1.36205 7.92472 7.93369 6.47507 | -0.11815 -0.11899 9.25333 9.25159 7.61520 | $\begin{array}{c} 0.23(0.06,0.39) \\ 0.2(0.03,0.37) \\ -0.01(-0.07,0.06) \\ -0.04(-0.11,0.02) \\ 0.04(-0.02,0.1) \end{array}$ | | 0.01000 0.02000 0.84000 0.20000 0.22000 | $\begin{array}{c} 0.03487(-0.06434,0.13408) \\ 0.04477(-0.04252,0.13206) \\ 0.00744(-0.07393,0.0888) \\ -0.04775(-0.13426,0.03876) \\ 0.04771(-0.02587,0.12128) \end{array}$ | 0.50089 0.31947 0.86781 0.28290 0.20532 | 2 2 2 2 2 | 3.0 2.0 3.0 | .8786571 .8786571 .9931017 .8786571 |
| Communicative Development Inventories Communicative Development Inventories | | NA urine | NA lactulose concentration | | 874 848 | 6.47592 -1.87550 | 7.614 5 5 -0.49830 | 0.06(-0.01,0.12) NA(NA,NA) | | | -0.10994(-0.27581,0.05593) -0.11173(-0.24453,0.02108) | 0.19523 0.09893 | 2 2 | | .8786571 .8479714 |

Table 1: Any Significant p-value (Bangladesh)

| Outcome Domain | Outcome | Exposure | n | t | Adjusted Difference (95% CI) | Unadj. P-value | Adj. P-value | FDR P-value | hyp | signif |
|--|-----------------------|-------------------------|-----|---|------------------------------|----------------|--------------|-------------|-----|------------------|
| WHO Motor Milestone | Sum Total | NA | 809 | 1 | 0.14(-0.1,0.37) | 0.00 | 0.26000 | 0.4000000 | 1 | Unadj. |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | NA | 809 | 1 | 0.15(-0.05,0.35) | 0.00 | 0.15000 | 0.3090909 | 1 | Unadj. |
| WHO Motor Milestone | Sum Total | lactulose concentration | 984 | 1 | -0.25(-0.49,-0.01) | 0.09 | 0.04000 | 0.1333333 | 1 | Adj. |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | lactulose concentration | 991 | 1 | -0.11(-0.21,0) | 0.24 | 0.04000 | 0.1333333 | 1 | Adj. |
| WHO Motor Milestone | Sum Total | mannitol concentration | 984 | 1 | -0.23(-0.36,-0.09) | 0.05 | 0.00000 | 0.0000000 | 1 | Unadj., Adj., FD |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | mannitol concentration | 991 | 1 | -0.1(-0.2,0) | 0.14 | 0.05000 | 0.1428571 | 1 | Adj. |
| Communicative Development Inventories | Understanding | NA | 800 | 1 | 0.23(0.07, 0.39) | 0.00 | 0.01000 | 0.1000000 | 1 | Unadj., Adj. |
| Communicative Development Inventories | Understanding | lactulose concentration | 979 | 1 | -0.16(-0.3,-0.01) | 0.08 | 0.03000 | 0.1333333 | 1 | Adj. |
| Communicative Development Inventories | Expressing | lactulose concentration | 976 | 1 | -0.17(-0.33,-0.01) | 0.10 | 0.04000 | 0.1333333 | 1 | Adj. |
| Extended Ages and Stages Questionnaire | Personal Social Score | NA | 698 | 1 | -0.06171(-0.18472, 0.06131) | 0.05 | 0.33055 | 0.8786571 | 2 | Unadj. |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.11337(-0.00682,0.23356) | 0.02 | 0.06409 | 0.8056800 | 2 | Unadj. |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.10444(-0.0138,0.22268) | 0.03 | 0.08305 | 0.8305000 | 2 | Unadj. |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 841 | 2 | -0.08429(-0.1647,-0.00387) | NA | 0.03961 | 0.8056800 | 2 | Adj. |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 841 | 2 | -0.19961(-0.36879,-0.03043) | NA | 0.02059 | 0.8056800 | 2 | Adj. |
| Communicative Development Inventories | Understanding | NA | 865 | 2 | 0.03487(-0.06434,0.13408) | 0.01 | 0.50089 | 0.8786571 | 2 | Unadj. |
| Communicative Development Inventories | Expressing | NA | 874 | 2 | 0.04477(-0.04252,0.13206) | 0.02 | 0.31947 | 0.8786571 | 2 | Unadj. |

Table 2: Any Significant p-value (Kenya)

| Outcome Domain | Outcome | Exposure | n | t | Adjusted Difference (95% CI) | Unadj. P-value | Adj. P-value | FDR P-value | hyp | signif |
|--|-----------------------|-------------------------|------|---|------------------------------|----------------|--------------|-------------|-----|--------------|
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | NA | 1003 | 1 | 0.06(-0.03,0.16) | 0.01000 | 0.1600 | 0.9000000 | 4 | Unadj. |
| WHO Motor Milestone | Sum Total | NA | 1003 | 1 | 0.07(-0.03,0.17) | 0.01000 | 0.1800 | 0.9000000 | 4 | Unadj. |
| WHO Motor Milestone | Sum Total | lactulose concentration | 1083 | 1 | 0(-0.07,0.08) | 0.03000 | 0.9400 | 0.9400000 | 4 | Unadj. |
| WHO Motor Milestone | Sum Total | mannitol concentration | 1083 | 1 | 0.02(-0.06,0.09) | 0.04000 | 0.6600 | 0.9111111 | 4 | Unadj. |
| Extended Ages and Stages Questionnaire | Communication Score | NA | 796 | 1 | 0.099(0.0088, 0.1892) | 0.10971 | 0.0312 | 0.6240000 | 5 | Adj. |
| Extended Ages and Stages Questionnaire | Communication Score | lactulose concentration | 861 | 1 | 0.1051(-0.0707,0.281) | 0.01234 | 0.2438 | 0.8170286 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 862 | 1 | -0.0438(-0.1217,0.0341) | 0.01233 | 0.2737 | 0.8170286 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Personal Social Score | lactulose concentration | 865 | 1 | 0.0753(-0.0097, 0.1602) | 0.00415 | 0.0820 | 0.8170286 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Combined | lactulose concentration | 861 | 1 | 0.0502(-0.1011,0.2015) | 0.00150 | 0.5265 | 0.8170286 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Communication Score | mannitol concentration | 861 | 1 | 0.0591(-0.0211, 0.1392) | 0.00034 | 0.1494 | 0.8170286 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 862 | 1 | 0.0039(-0.0739,0.0817) | 0.00210 | 0.9289 | 0.9426000 | 5 | Unadj. |
| Extended Ages and Stages Questionnaire | Personal Social Score | mannitol concentration | 865 | 1 | 0.1434(0.0386, 0.2483) | 0.00022 | 0.0073 | 0.2920000 | 5 | Unadj., Adj. |
| Extended Ages and Stages Questionnaire | Combined | mannitol concentration | 861 | 1 | 0.0522(-0.0284, 0.1328) | 0.00005 | 0.2059 | 0.8170286 | 5 | Unadj. |

Table 3: By Outcome

| Outcome Domain | Outcome | Exposure | n | t | Adjusted Difference (95% CI) | Unadj. P-value | Adj. P-value | FDR P-value | hyp | signif | dir |
|--|-----------------------------|-------------------------|------------|---|--|--------------------|-------------------|-----------------------|-----|------------------------|-----|
| Communicative Development Inventories | Expressing | lactulose concentration | 976 | 1 | -0.17(-0.33,-0.01) | 0.10000 | 0.04000 | 0.1333333 | 1 | Adj. | - |
| Communicative Development Inventories Communicative Development Inventories | Expressing Understanding | NA NA | 874 800 | 2 | 0.04477(-0.04252,0.13206) 0.23(0.07,0.39) | 0.02000 0.00000 | 0.31947 0.01000 | 0.8786571 0.1000000 | 2 | Unadj. Unadj., Adj. | ++ |
| Communicative Development Inventories Communicative Development Inventories | Understanding | lactulose concentration | 979 | 1 | -0.16(-0.3,-0.01) | 0.08000 | 0.03000 | 0.1333333 | 1 | Adj. | _ |
| Communicative Development Inventories | Understanding | NA | 865 | 2 | 0.03487(-0.06434,0.13408) | 0.01000 | 0.50089 | 0.8786571 | 2 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.11337(-0.00682,0.23356) | 0.02000 | 0.06409 | 0.8056800 | 2 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.10444(-0.0138,0.22268) | 0.03000 | 0.08305 | 0.8305000 | 2 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | lactulose concentration | 861 | 1 | 0.0502(-0.1011,0.2015) | 0.00150 | 0.52650 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | mannitol concentration | 861 | 1 | 0.0522(-0.0284, 0.1328) | 0.00005 | 0.20590 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | NA | 796 | 1 | 0.099(0.0088, 0.1892) | 0.10971 | 0.03120 | 0.6240000 | 5 | Adj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | lactulose concentration | 861 | 1 | 0.1051(-0.0707,0.281) | 0.01234 | 0.24380 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | mannitol concentration | 861 | 1 | 0.0591(-0.0211,0.1392) | 0.00034 | 0.14940 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 841 | 2 | -0.08429(-0.1647,-0.00387) | NA | 0.03961 | 0.8056800 | 2 | Adj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 841 | 2 | -0.19961(-0.36879,-0.03043) | NA | 0.02059 | 0.8056800 | 2 | Adj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 862 | 1 | -0.0438(-0.1217,0.0341) | 0.01233 | 0.27370 | 0.8170286 | 5 | Unadj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 862 | 1 | 0.0039(-0.0739, 0.0817) | 0.00210 | 0.92890 | 0.9426000 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Personal Social Score | NA | 698 | 1 | -0.06171(-0.18472,0.06131) | 0.05000 | 0.33055 | 0.8786571 | 2 | Unadj. | - |
| Extended Ages and Stages Questionnaire | Personal Social Score | lactulose concentration | 865 | 1 | 0.0753(-0.0097, 0.1602) | 0.00415 | 0.08200 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Personal Social Score | mannitol concentration | 865 | 1 | 0.1434(0.0386, 0.2483) | 0.00022 | 0.00730 | 0.2920000 | 5 | Unadj., Adj. | + |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | NA | 809 | 1 | 0.15(-0.05,0.35) | 0.00000 | 0.15000 | 0.3090909 | 1 | Unadj. | + |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | lactulose concentration | 991 | 1 | -0.11(-0.21,0) | 0.24000 | 0.04000 | 0.13333333 | 1 | Adj. | - |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | mannitol concentration | 991 | 1 | -0.1(-0.2,0) | 0.14000 | 0.05000 | 0.1428571 | 1 | Adj. | - |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | NA | 1003 | 1 | 0.06(-0.03,0.16) | 0.01000 | 0.16000 | 0.9000000 | 4 | Unadj. | + |
| WHO Motor Milestone | Sum Total | NA | 809 | 1 | 0.14(-0.1,0.37) | 0.00000 | 0.26000 | 0.4000000 | 1 | Unadj. | + |
| WHO Motor Milestone | Sum Total | lactulose concentration | 984 | 1 | -0.25(-0.49,-0.01) | 0.09000 | 0.04000 | 0.1333333 | 1 | Adj. | - |
| WHO Motor Milestone | Sum Total | mannitol concentration | 984 | 1 | -0.23(-0.36,-0.09) | 0.05000 | 0.00000 | 0.0000000 | 1 | Unadj., Adj., FDR | - |
| WHO Motor Milestone | Sum Total | NA | 1003 | 1 | 0.07(-0.03,0.17) | 0.01000 | 0.18000 | 0.9000000 | 4 | Unadj. | + |
| WHO Motor Milestone | Sum Total | lactulose concentration | 1083 | 1 | 0(-0.07,0.08) | 0.03000 | 0.94000 | 0.9400000 | 4 | Unadj. | + |
| WHO Motor Milestone | Sum Total | mannitol concentration | 1083 | 1 | 0.02(-0.06,0.09) | 0.04000 | 0.66000 | 0.9111111 | 4 | Unadj. | + |

Table 4: By Exposure

| Outcome Domain | Outcome | Exposure | n | t | Adjusted Difference (95% CI) | Unadj. P-value | Adj. P-value | FDR P-value | hyp | signif | dir |
|--|-------------------------|-------------------------|------|---|------------------------------|----------------|--------------|-------------|-----|-------------------|-----|
| WHO Motor Milestone | Sum Total | lactulose concentration | 984 | 1 | -0.25(-0.49,-0.01) | 0.09000 | 0.04000 | 0.1333333 | 1 | Adj. | _ |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | lactulose concentration | 991 | 1 | -0.11(-0.21,0) | 0.24000 | 0.04000 | 0.1333333 | 1 | Adj. | - |
| Communicative Development Inventories | Understanding | lactulose concentration | 979 | 1 | -0.16(-0.3,-0.01) | 0.08000 | 0.03000 | 0.1333333 | 1 | Adj. | - |
| Communicative Development Inventories | Expressing | lactulose concentration | 976 | 1 | -0.17(-0.33,-0.01) | 0.10000 | 0.04000 | 0.1333333 | 1 | Adj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 841 | 2 | -0.08429(-0.1647, -0.00387) | NA | 0.03961 | 0.8056800 | 2 | Adj. | - |
| WHO Motor Milestone | Sum Total | lactulose concentration | 1083 | 1 | 0(-0.07,0.08) | 0.03000 | 0.94000 | 0.9400000 | 4 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | lactulose concentration | 861 | 1 | 0.1051(-0.0707,0.281) | 0.01234 | 0.24380 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 862 | 1 | -0.0438(-0.1217,0.0341) | 0.01233 | 0.27370 | 0.8170286 | 5 | Unadj. | - |
| Extended Ages and Stages Questionnaire | Personal Social Score | lactulose concentration | 865 | 1 | 0.0753(-0.0097, 0.1602) | 0.00415 | 0.08200 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | lactulose concentration | 861 | 1 | 0.0502(-0.1011,0.2015) | 0.00150 | 0.52650 | 0.8170286 | 5 | Unadj. | + |
| WHO Motor Milestone | Sum Total | mannitol concentration | 984 | 1 | -0.23(-0.36,-0.09) | 0.05000 | 0.00000 | 0.0000000 | 1 | Unadj., Adj., FDR | - |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | mannitol concentration | 991 | 1 | -0.1(-0.2,0) | 0.14000 | 0.05000 | 0.1428571 | 1 | Adj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 841 | 2 | -0.19961(-0.36879,-0.03043) | NA | 0.02059 | 0.8056800 | 2 | Adj. | - |
| WHO Motor Milestone | Sum Total | mannitol concentration | 1083 | 1 | 0.02(-0.06,0.09) | 0.04000 | 0.66000 | 0.9111111 | 4 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | mannitol concentration | 861 | 1 | 0.0591(-0.0211, 0.1392) | 0.00034 | 0.14940 | 0.8170286 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 862 | 1 | 0.0039(-0.0739,0.0817) | 0.00210 | 0.92890 | 0.9426000 | 5 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Personal Social Score | mannitol concentration | 865 | 1 | 0.1434(0.0386, 0.2483) | 0.00022 | 0.00730 | 0.2920000 | 5 | Unadj., Adj. | + |
| Extended Ages and Stages Questionnaire | Combined | mannitol concentration | 861 | 1 | 0.0522(-0.0284, 0.1328) | 0.00005 | 0.20590 | 0.8170286 | 5 | Unadj. | + |
| WHO Motor Milestone | Sum Total | NA | 809 | 1 | 0.14(-0.1,0.37) | 0.00000 | 0.26000 | 0.4000000 | 1 | Unadj. | + |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | NA | 809 | 1 | 0.15(-0.05,0.35) | 0.00000 | 0.15000 | 0.3090909 | 1 | Unadj. | + |
| Communicative Development Inventories | Understanding | NA | 800 | 1 | 0.23(0.07, 0.39) | 0.00000 | 0.01000 | 0.1000000 | 1 | Unadj., Adj. | + |
| Extended Ages and Stages Questionnaire | Personal Social Score | NA | 698 | 1 | -0.06171(-0.18472,0.06131) | 0.05000 | 0.33055 | 0.8786571 | 2 | Unadj. | - |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.11337(-0.00682, 0.23356) | 0.02000 | 0.06409 | 0.8056800 | 2 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Combined | NA | 699 | 1 | 0.10444(-0.0138,0.22268) | 0.03000 | 0.08305 | 0.8305000 | 2 | Unadj. | + |
| Communicative Development Inventories | Understanding | NA | 865 | 2 | 0.03487(-0.06434, 0.13408) | 0.01000 | 0.50089 | 0.8786571 | 2 | Unadj. | + |
| Communicative Development Inventories | Expressing | NA | 874 | 2 | 0.04477(-0.04252, 0.13206) | 0.02000 | 0.31947 | 0.8786571 | 2 | Unadj. | + |
| WHO Motor Milestone | Milestones $2, 4, 5, 6$ | NA | 1003 | 1 | 0.06(-0.03,0.16) | 0.01000 | 0.16000 | 0.9000000 | 4 | Unadj. | + |
| WHO Motor Milestone | Sum Total | NA | 1003 | 1 | 0.07(-0.03,0.17) | 0.01000 | 0.18000 | 0.9000000 | 4 | Unadj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | NA | 796 | 1 | 0.099(0.0088, 0.1892) | 0.10971 | 0.03120 | 0.6240000 | 5 | Adj. | + |

Table 5: Only Significant Adj/FDR Corrected

| Outcome Domain | Outcome | Exposure | n | t | Adjusted Difference (95% CI) | Unadj. P-value | Adj. P-value | FDR P-value | hyp | signif | dir |
|--|-----------------------|-------------------------|-----|---|------------------------------|----------------|--------------|-------------|-----|-------------------|-----|
| WHO Motor Milestone | Sum Total | lactulose concentration | 984 | 1 | -0.25(-0.49,-0.01) | 0.09000 | 0.04000 | 0.1333333 | 1 | Adj. | - |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | lactulose concentration | 991 | 1 | -0.11(-0.21,0) | 0.24000 | 0.04000 | 0.13333333 | 1 | Adj. | - |
| Communicative Development Inventories | Understanding | lactulose concentration | 979 | 1 | -0.16(-0.3,-0.01) | 0.08000 | 0.03000 | 0.13333333 | 1 | Adj. | - |
| Communicative Development Inventories | Expressing | lactulose concentration | 976 | 1 | -0.17(-0.33,-0.01) | 0.10000 | 0.04000 | 0.13333333 | 1 | Adj. | - |
| WHO Motor Milestone | Sum Total | mannitol concentration | 984 | 1 | -0.23(-0.36,-0.09) | 0.05000 | 0.00000 | 0.0000000 | 1 | Unadj., Adj., FDR | - |
| WHO Motor Milestone | Milestones 2, 4, 5, 6 | mannitol concentration | 991 | 1 | -0.1(-0.2,0) | 0.14000 | 0.05000 | 0.1428571 | 1 | Adj. | - |
| Communicative Development Inventories | Understanding | NA | 800 | 1 | 0.23(0.07, 0.39) | 0.00000 | 0.01000 | 0.1000000 | 1 | Unadj., Adj. | + |
| Extended Ages and Stages Questionnaire | Gross Motor Score | lactulose concentration | 841 | 2 | -0.08429(-0.1647,-0.00387) | NA | 0.03961 | 0.8056800 | 2 | Adj. | - |
| Extended Ages and Stages Questionnaire | Gross Motor Score | mannitol concentration | 841 | 2 | -0.19961(-0.36879,-0.03043) | NA | 0.02059 | 0.8056800 | 2 | Adj. | - |
| Extended Ages and Stages Questionnaire | Personal Social Score | mannitol concentration | 865 | 1 | 0.1434(0.0386, 0.2483) | 0.00022 | 0.00730 | 0.2920000 | 5 | Unadj., Adj. | + |
| Extended Ages and Stages Questionnaire | Communication Score | NA | 796 | 1 | 0.099 (0.0088, 0.1892) | 0.10971 | 0.03120 | 0.6240000 | 5 | Adj. | + |

caption = 'Only Significant Adj/FDR Corrected') %>%
kable_styling(latex_options="scale_down")