EED-Development Tables

WASH Benefits, Bangladesh

11 March 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
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)`,
                                           '-') ~ '-', TRUE ~ '+')) %>%
  unite("signif", significant_unadj, significant_adj, significant_fdr, sep = ', ', na.rm = TRUE) %%
  select(`Outcome Domain`, Outcome, Exposure, n, `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) %>%
  kable(booktabs = TRUE, longtable = TRUE,
        caption = 'Any Significant p-value (Bangladesh)') %>%
  kable_styling(latex_options=c("hold_position", "repeat_header"), font_size = 7)
```

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Extended Ages and Stages Questionnaire Personal Social Score urine Lactulose concentration 844 0.15 0.61 NA(NA,NA) NA -0.03(-0.21,0.16) 0.78 0.50 (-0.21,0.16)		-0.03(-0.21,0.11)	NA NA		NA(NA,NA)			844	Lactulose concentration			Extended Ages and Stages Questionnaire Extended Ages and Stages Questionnaire
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Communicative Development Inventories Expressing fecal Neopterin 874 649.32 2027.8		-0.03(-0.13,0.07)	0.89)	0.01(-0.15,0.17)	2027.89	649.32	874	Neopterin	fecal	Expressing	Communicative Development Inventories

Table 1: Any Significant p-value (Bangladesh)

Outcome Domain	Outcome	Exposure	\mathbf{n}	Adjusted Difference (95% CI)	Unadj. P-value	Adj. P-value	FDR P-value	hyp	signif
WHO Motor Milestone	Sum Total	Alpha-1 Antitrypsin	806	0.03(-0.17,0.22)	0.00	0.80	0.84	1	Unadj.
WHO Motor Milestone	Sum Total	Neopterin	809	0.1(-0.09,0.28)	0.00	0.31	0.41	1	Unadj.
WHO Motor Milestone	Milestones 2, 4, 5, 6	Neopterin	809	0.12(-0.04,0.28)	0.00	0.15	0.29	1	Unadj.
WHO Motor Milestone	Sum Total	Mannitol concentration	984	-0.28(-0.48,-0.08)	0.05	0.01	0.06	1	Unadj., Adj.
Communicative Development Inventories	Understanding	Neopterin	800	0.3(0.11, 0.49)	0.00	0.00	0.05	1	Unadj., Adj., FDR
Communicative Development Inventories	Expressing	Lactulose concentration	976	-0.14(-0.27,-0.02)	0.05	0.02	0.16	1	Unadj., Adj.
Communicative Development Inventories	Understanding	Mannitol concentration	979	-0.09(-0.19,0.01)	0.05	0.09	0.27	1	Unadj.
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	836	-0.16(-0.29,-0.02)	NA	0.02	0.81	2	Adj.
Communicative Development Inventories	Understanding	Alpha-1 Antitrypsin	865	0.05(-0.06,0.15)	0.02	0.40	0.81	2	Unadj.
Communicative Development Inventories	Expressing	Alpha-1 Antitrypsin	874	0(0,0)	0.06	0.03	0.81	2	Adj.

Table 2: Any Significant p-value (Kenya)

Outcome Domain	Outcome	Exposure	n	Adjusted Difference (95% CI)	Unadj. P-value	Adj. P-value	FDR P-value	hyp	signif	dir
WHO Motor Milestone	Milestones 2, 4, 5, 6	Neopterin	1027	0.08(-0.01,0.16)	0.01	0.07	0.22	4	Unadj.	+
WHO Motor Milestone	Sum Total	Neopterin	1027	0.08(-0.01,0.17)	0.02	0.09	0.22	4	Unadj.	+
WHO Motor Milestone	Milestones 2, 4, 5, 6	Lactulose concentration	1083	0.02(-0.02,0.06)	0.02	0.34	0.44	4	Unadj.	+
WHO Motor Milestone	Sum Total	Lactulose concentration	1083	0.02(-0.02,0.06)	0.01	0.35	0.44	4	Unadj.	+
WHO Motor Milestone	$Milestones\ 2,\ 4,\ 5,\ 6$	Mannitol concentration	1083	0.05(0,0.09)	0.66	0.03	0.15	4	Adj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	1083	0.05(0.01,0.1)	0.03	0.03	0.15	4	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Alpha-1 Antitrypsin	796	0.1(0,0.19)	0.10	0.05	0.60	5	Adj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Lactulose concentration	862	0.04(-0.18,0.26)	0.00	0.73	0.96	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	865	0.06(-0.02,0.14)	0.01	0.15	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Combined	Lactulose concentration	861	0.16(-0.08,0.4)	0.01	0.19	0.74	5	Unadj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	861	0.03(-0.04,0.1)	0.00	0.43	0.95	5	Unadj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	862	0.01(-0.23,0.24)	0.05	0.97	0.97	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Mannitol concentration	865	0.11(0.02, 0.2)	0.00	0.02	0.56	5	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Combined	Mannitol concentration	861	0.14(-0.05, 0.33)	0.00	0.14	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	1078	0.07(-0.14,0.28)	0.00	0.52	0.96	5	Unadj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	831	0.05(0.01, 0.09)	0.10	0.03	0.56	5	Adj.	+

Tables Arranged

Table 3: By Outcome

Outcome Domain	Outcome	Exposure	n	Adjusted Difference (95% CI)	Unadj. P-value	Adj. P-value	FDR P-value	hyp	signif	dir
Communicative Development Inventories	Expressing	Lactulose concentration	976	-0.14(-0.27,-0.02)	0.05	0.02	0.16	1	Unadj., Adj.	_
Communicative Development Inventories	Expressing	Alpha-1 Antitrypsin	874	0(0,0)	0.06	0.03	0.81	2	Adj.	+
Communicative Development Inventories	Understanding	Neopterin	800	0.3(0.11, 0.49)	0.00	0.00	0.05	1	Unadj., Adj., FDR	+
Communicative Development Inventories	Understanding	Mannitol concentration	979	-0.09(-0.19,0.01)	0.05	0.09	0.27	1	Unadj.	-
Communicative Development Inventories	Understanding	Alpha-1 Antitrypsin	865	0.05(-0.06,0.15)	0.02	0.40	0.81	2	Unadj.	+
Extended Ages and Stages Questionnaire	Combined	Lactulose concentration	861	0.16(-0.08,0.4)	0.01	0.19	0.74	5	Unadj.	+
Extended Ages and Stages Questionnaire	Combined	Mannitol concentration	861	0.14(-0.05, 0.33)	0.00	0.14	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Communication Score	Alpha-1 Antitrypsin	796	0.1(0,0.19)	0.10	0.05	0.60	5	Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	861	0.03(-0.04,0.1)	0.00	0.43	0.95	5	Unadj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	831	0.05(0.01, 0.09)	0.10	0.03	0.56	5	Adj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	836	-0.16(-0.29,-0.02)	NA	0.02	0.81	2	Adj.	_
Extended Ages and Stages Questionnaire	Gross Motor Score	Lactulose concentration	862	0.04(-0.18,0.26)	0.00	0.73	0.96	5	Unadj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	862	0.01(-0.23,0.24)	0.05	0.97	0.97	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	865	0.06(-0.02,0.14)	0.01	0.15	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Mannitol concentration	865	0.11(0.02, 0.2)	0.00	0.02	0.56	5	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	1078	0.07(-0.14,0.28)	0.00	0.52	0.96	5	Unadj.	+
WHO Motor Milestone	Milestones $2, 4, 5, 6$	Neopterin	809	0.12(-0.04,0.28)	0.00	0.15	0.29	1	Unadj.	+
WHO Motor Milestone	Milestones $2, 4, 5, 6$	Neopterin	1027	0.08(-0.01,0.16)	0.01	0.07	0.22	4	Unadj.	+
WHO Motor Milestone	Milestones $2, 4, 5, 6$	Lactulose concentration	1083	0.02(-0.02,0.06)	0.02	0.34	0.44	4	Unadj.	+
WHO Motor Milestone	Milestones $2, 4, 5, 6$	Mannitol concentration	1083	0.05(0,0.09)	0.66	0.03	0.15	4	Adj.	+
WHO Motor Milestone	Sum Total	Alpha-1 Antitrypsin	806	0.03(-0.17,0.22)	0.00	0.80	0.84	1	Unadj.	+
WHO Motor Milestone	Sum Total	Neopterin	809	0.1(-0.09,0.28)	0.00	0.31	0.41	1	Unadj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	984	-0.28(-0.48,-0.08)	0.05	0.01	0.06	1	Unadj., Adj.	-
WHO Motor Milestone	Sum Total	Neopterin	1027	0.08(-0.01,0.17)	0.02	0.09	0.22	4	Unadj.	+
WHO Motor Milestone	Sum Total	Lactulose concentration	1083	0.02(-0.02,0.06)	0.01	0.35	0.44	4	Unadj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	1083	0.05(0.01, 0.1)	0.03	0.03	0.15	4	Unadj., Adj.	+

Table 4: By Exposure

Outcome Domain	Outcome	Exposure	n	Adjusted Difference (95% CI)	Unadj. P-value	Adj. P-value	FDR P-value	hyp	signif	dir
WHO Motor Milestone	Sum Total	Alpha-1 Antitrypsin	806	0.03(-0.17,0.22)	0.00	0.80	0.84	1	Unadj.	+
Communicative Development Inventories	Understanding	Alpha-1 Antitrypsin	865	0.05(-0.06,0.15)	0.02	0.40	0.81	2	Unadj.	+
Communicative Development Inventories	Expressing	Alpha-1 Antitrypsin	874	0(0,0)	0.06	0.03	0.81	2	Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Alpha-1 Antitrypsin	796	0.1(0,0.19)	0.10	0.05	0.60	5	Adj.	+
Communicative Development Inventories	Expressing	Lactulose concentration	976	-0.14(-0.27,-0.02)	0.05	0.02	0.16	1	Unadj., Adj.	-
WHO Motor Milestone	Milestones $2, 4, 5, 6$	Lactulose concentration	1083	0.02(-0.02,0.06)	0.02	0.34	0.44	4	Unadj.	+
WHO Motor Milestone	Sum Total	Lactulose concentration	1083	0.02(-0.02,0.06)	0.01	0.35	0.44	4	Unadj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Lactulose concentration	862	0.04(-0.18,0.26)	0.00	0.73	0.96	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	865	0.06(-0.02,0.14)	0.01	0.15	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Combined	Lactulose concentration	861	0.16(-0.08,0.4)	0.01	0.19	0.74	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Lactulose concentration	1078	0.07(-0.14,0.28)	0.00	0.52	0.96	5	Unadj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	984	-0.28(-0.48,-0.08)	0.05	0.01	0.06	1	Unadj., Adj.	-
Communicative Development Inventories	Understanding	Mannitol concentration	979	-0.09(-0.19,0.01)	0.05	0.09	0.27	1	Unadj.	-
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	836	-0.16(-0.29,-0.02)	NA	0.02	0.81	2	Adj.	-
WHO Motor Milestone	$Milestones\ 2,\ 4,\ 5,\ 6$	Mannitol concentration	1083	0.05(0,0.09)	0.66	0.03	0.15	4	Adj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	1083	0.05(0.01,0.1)	0.03	0.03	0.15	4	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	861	0.03(-0.04,0.1)	0.00	0.43	0.95	5	Unadj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	862	0.01(-0.23,0.24)	0.05	0.97	0.97	5	Unadj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Mannitol concentration	865	0.11(0.02,0.2)	0.00	0.02	0.56	5	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Combined	Mannitol concentration	861	0.14(-0.05,0.33)	0.00	0.14	0.69	5	Unadj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	831	0.05(0.01,0.09)	0.10	0.03	0.56	5	Adj.	+
WHO Motor Milestone	Sum Total	Neopterin	809	0.1(-0.09,0.28)	0.00	0.31	0.41	1	Unadj.	+
WHO Motor Milestone	Milestones 2, 4, 5, 6	Neopterin	809	0.12(-0.04,0.28)	0.00	0.15	0.29	1	Unadj.	+
Communicative Development Inventories	Understanding	Neopterin	800	0.3(0.11,0.49)	0.00	0.00	0.05	1	Unadj., Adj., FDR	+
WHO Motor Milestone	Milestones 2, 4, 5, 6	Neopterin	1027	0.08(-0.01,0.16)	0.01	0.07	0.22	4	Unadj.	+
WHO Motor Milestone	Sum Total	Neopterin	1027	0.08(-0.01,0.17)	0.02	0.09	0.22	4	Unadj.	+

Table 5: Only Significant Adj/FDR Corrected

Outcome Domain	Outcome	Exposure	n	Adjusted Difference (95% CI)	Unadj. P-value	Adj. P-value	FDR P-value	hyp	signif	dir
Communicative Development Inventories	Expressing	Lactulose concentration	976	-0.14(-0.27,-0.02)	0.05	0.02	0.16	1	Unadj., Adj.	_
WHO Motor Milestone	Sum Total	Mannitol concentration	984	-0.28(-0.48,-0.08)	0.05	0.01	0.06	1	Unadj., Adj.	-
Communicative Development Inventories	Understanding	Neopterin	800	0.3(0.11, 0.49)	0.00	0.00	0.05	1	Unadj., Adj., FDR	+
Communicative Development Inventories	Expressing	Alpha-1 Antitrypsin	874	0(0,0)	0.06	0.03	0.81	2	Adj.	+
Extended Ages and Stages Questionnaire	Gross Motor Score	Mannitol concentration	836	-0.16(-0.29,-0.02)	NA	0.02	0.81	2	Adj.	-
WHO Motor Milestone	Milestones 2, 4, 5, 6	Mannitol concentration	1083	0.05(0,0.09)	0.66	0.03	0.15	4	Adj.	+
WHO Motor Milestone	Sum Total	Mannitol concentration	1083	0.05(0.01,0.1)	0.03	0.03	0.15	4	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Alpha-1 Antitrypsin	796	0.1(0,0.19)	0.10	0.05	0.60	5	Adj.	+
Extended Ages and Stages Questionnaire	Personal Social Score	Mannitol concentration	865	0.11(0.02, 0.2)	0.00	0.02	0.56	5	Unadj., Adj.	+
Extended Ages and Stages Questionnaire	Communication Score	Mannitol concentration	831	0.05(0.01, 0.09)	0.10	0.03	0.56	5	Adj.	+