Intention-to-Treat analysis for stunting in 1-year old children

Version 1.6

2022-10-30

Contents

Table 1: Baseline characteristics to be reported of liveborn children

	Control (N = 1525)	Intervention $(N = 1536)$
International Research Center		,
Guatemala	386 (25.3%)	384 (25.0%)
India	387 (25.4%)	388 (25.3%)
Peru	358 (23.5%)	385 (25.1%)
Rwanda	394 (25.8%)	379 (24.7%)
Gestational age (weeks) at intervention		18.1 (3.3)
Child sex		
Male	788 (51.7%)	800 (52.1%)
Female	737 (48.3%)	736 (47.9%)
Number of siblings in the house	1.7 (1.1)	1.6 (1.1)
Second-hand smoking	85 (5.6%)	76 (4.9%)
Household food insecurity score		
Food secure	820 (53.8%)	904 (58.9%)
Mild	424 (27.8%)	403 (26.2%)
Moderate/Sereve	259 (17.0%)	208 (13.5%)
Socio-economic Status	-0.064 (1.057)	0.06 (1.018)

Variables	Total	Missing
Exclusive breastfeeding	3061	645 (21.1%)
Household food insecurity score	3061	43 (1.4%)
Gestational age (weeks) at intervention	3061	1525 (49.8%)
Second-hand smoking	3061	7 (0.2%)
Number of siblings in the house	3061	1023 (33.4%)
Up-to-date vaccination status	3061	2518 (82.3%)
Birth weight-for-age z score	3061	59 (1.9%)

Table 2: Other key characteristics of study population of liveborn children

	Control (N = 1525)	Intervention $(N = 1536)$
Maternal variables		
Mother's age (years)	25.4 (4.5)	25.3 (4.4)
Mother's highest level of education completed		
No formal education or some primary school (1 or 2)	540 (35.4%)	461 (30.0%)
Primary school or some secondary school incomplete (3 or 4)	514 (33.7%)	538 (35.0%)
Secondary school or vocational or university/college (5 or 6 or 7)	471 (30.9%)	537 (35.0%)
Gestational age at baseline (weeks)	15.3 (3.2)	15.5 (3.1)
Child variables		
Birth weight-for-age z score	-0.8 (1.0)	-0.8 (1.0)
Exclusive breastfeeding	550 (36.1%)	495 (32.2%)
Up-to-date vaccination status	137 (9.0%)	127 (8.3%)

Table 3: Pneumonia case characteristics to be reported

	Control ($N = 87$)	Intervention $(N = 83)$
International Research Center	,	,
Guatemala	31 (35.6%)	37 (44.6%)
India	5 (5.7%)	4 (4.8%)
Peru	6 (6.9%)	7 (8.4%)
Rwanda	45 (51.7%)	35 (42.2%)
Child's age (months)		,
<2 months	35 (40.2%)	37 (44.6%)
3-5 months	24 (27.6%)	17 (20.5%)
6-11 months	28 (32.2%)	29 (34.9%)
Child sex		/
Male	39 (44.8%)	45 (54.2%)
Female	48 (55.2%)	38 (45.8%)
Weight (kg)	5.8 (2.4)	6.0 (2.3)
Severe acute malnutrition	5 (5.7%)	3 (3.6%)
Up-to-date vaccination status	7 (8.0%)	1 (1.2%)
Temperature >38 C	32 (36.8%)	18 (21.7%)
Average Heart rate	156.6 (18.9)	152.0 (21.0)
Average Respiratory rate	59.5 (15.7)	57.4 (12.5)
Average SpO2	88.6 (7.7)	89.5 (6.0)
Hypoxemia	57 (65.5%)	53 (63.9%)
Wheeze +/- crackles	16 (18.4%)	16 (19.3%)
At least one respiratory danger sign	59 (67.8%)	53 (63.9%)
Chest indrawing	38 (43.7%)	34 (41.0%)
Head nodding	25 (28.7%)	18 (21.7%)
Persistent nasal flaring	19 (21.8%)	12 (14.5%)
Grunting	5 (5.7%)	12 (14.5%)
Stridor when calm	7 (8.0%)	11 (13.3%)
Audible wheeze, n (%)	12 (13.8%)	12 (14.5%)
Tracheal tugging	39 (44.8%)	19 (22.9%)
Intercostal retractions	19 (21.8%)	18 (21.7%)
At least one general danger sign, n (%)	36 (41.4%)	42 (50.6%)
Unable to drink or breastfeed, n (%)	11 (12.6%)	10 (12.0%)
Vomiting everything, n (%)	7 (8.0%)	7 (8.4%)
Convulsions, n (%)	2 (2.3%)	5 (6.0%)
Lethargy or unconscious, n (%)	10 (11.5%)	12 (14.5%)
At least one neonatal danger sign, n (%)	15 (17.2%)	20 (24.1%)
Unable to feed well, n (%)	6 (6.9%)	12 (14.5%)
Not moving at all or moves only, n (%)	3 (3.4%)	3 (3.6%)
Grunting, n (%)	9 (10.3%)	5 (6.0%)
Severe chest indrawing, n (%)	3 (3.4%)	6 (7.2%)
Lung Imaging	(0.17.0)	(11270)
Pneumonia by Lung Ultrasound , n(%)	43 (49.4%)	42 (50.6%)
Pneumonia by Chest Xray, n(%)	3 (3.4%)	0 (0.0%)
Clinical care	- (~,~)	- (0.0,0)
Hospitalized, n (%)	68 (78.2%)	61 (73.5%)
Oxygen treatment, n (%)	14 (16.1%)	12 (14.5%)
Advanced respiratory supportive care, n (%)	(-0.1/0)	(
Outcome	12 (13.8%)	8 (9.6%)
Mortality, n (%)	6 (6.9%)	4 (4.8%)
	- (0.070)	_ (2.070)

```
##
## Call:
## geeglm(formula = pneumonia ~ s6_arm + factor(tenstrata), family = "poisson",
      data = df.base, offset = (log(fu_day)), id = hhid, corstr = "independence")
## Coefficients:
                     Estimate Std.err
                                          Wald Pr(>|W|)
                    -10.02801 0.40980 598.815 < 2e-16 ***
## (Intercept)
## s6_arm
                     -0.03894 0.16033 0.059
                                                  0.808
## factor(tenstrata)9 0.04545 0.81876 0.003
                                                0.956
## factor(tenstrata)8  0.20522  0.57454  0.128
                                                 0.721
## factor(tenstrata)7 -0.19517
                              0.60288 0.105
                                                  0.746
## factor(tenstrata)6 1.77361
                              0.42602 17.332 3.14e-05 ***
## factor(tenstrata)5 -0.22074
                               1.08133 0.042 0.838
## factor(tenstrata)3 1.04434
                               0.70315
                                        2.206
                                                  0.137
## factor(tenstrata)2 -0.27897
                                1.08482
                                        0.066
                                                  0.797
## factor(tenstrata)1 1.92066
                              0.42461 20.461 6.09e-06 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Correlation structure = independence
## Estimated Scale Parameters:
##
              Estimate Std.err
## (Intercept)
                7.627 89.59
## Number of clusters: 3000 Maximum cluster size: 4
```

term	estimate	std.error	statistic	p.value	conf.low	conf.high
(Intercept)	0.0000	0.4098	598.8147	0.0000	0.0000	0.0001
s6_arm	0.9618	0.1603	0.0590	0.8081	0.7025	1.3169
factor(tenstrata)9	1.0465	0.8188	0.0031	0.9557	0.2103	5.2079
factor(tenstrata)8	1.2278	0.5745	0.1276	0.7209	0.3982	3.7860
factor(tenstrata)7	0.8227	0.6029	0.1048	0.7461	0.2524	2.6817
factor(tenstrata)6	5.8921	0.4260	17.3323	0.0000	2.5565	13.5800
factor(tenstrata)5	0.8019	1.0813	0.0417	0.8382	0.0963	6.6767
factor(tenstrata)3	2.8415	0.7031	2.2059	0.1375	0.7162	11.2739
factor(tenstrata)2	0.7566	1.0848	0.0661	0.7971	0.0902	6.3423
factor(tenstrata)1	6.8255	0.4246	20.4607	0.0000	2.9696	15.6878