

For HAZ

Model with interaction term

```
. logistic base_haz3 i.pn22 i.pn22##i.site1
```

```
Logistic regression      Number of obs   =    22,544
                        LR chi2(3)                 =    168.04
                        Prob > chi2                  =    0.0000
Log likelihood = -13345.076      Pseudo R2        =    0.0063
```

base_haz3	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	.852336	.061489	-2.21	0.027	.7399523	.9817885
site1 Africa	.6918662	.021566	-11.82	0.000	.6508629	.7354526
pn22#site1 Yes# Africa	.9796573	.1001714	-0.20	0.841	.8017474	1.197046
_cons	.4845313	.0106015	-33.12	0.000	.464192	.5057617

Note: **_cons** estimates baseline odds.

```
. est store e1
```

```
. lrtest e1 e2
```

```
Likelihood-ratio test
(Assumption: e2 nested in e1)
```

Model without interaction term

```
. logistic base_haz3 i.pn22 i.site1
```

```
Logistic regression      Number of obs   =    22,544
                        LR chi2(2)                 =    168.00
                        Prob > chi2                  =    0.0000
Log likelihood = -13345.096      Pseudo R2        =    0.0063
```

base_haz3	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	.8436428	.0431187	-3.33	0.001	.7632267	.9325319
site1 Africa	.6905456	.0205004	-12.47	0.000	.6515121	.7319176
_cons	.4849875	.0103639	-33.86	0.000	.4650941	.5057317

Note: **_cons** estimates baseline odds.

```
. est store e2
```

```
LR chi2(1) = 0.04
Prob > chi2 = 0.8407
```

For WAZ

Model with interaction term

```
. logistic base_wazc i.pn22 i.pn22##i.site1
```

```
Logistic regression           Number of obs   =   22,553
                             LR chi2(3)            =   319.16
                             Prob > chi2           =   0.0000
Log likelihood = -12904.925   Pseudo R2       =   0.0122
```

base_wazc	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	1.246639	.0854736	3.22	0.001	1.089882	1.425942
site1 Africa	.5935876	.0190955	-16.21	0.000	.5573166	.6322191
pn22#site1 Yes# Africa	.9274667	.0913435	-0.76	0.445	.7646558	1.124943
_cons	.4622598	.0101937	-34.99	0.000	.4427061	.4826771

Note: **_cons** estimates baseline odds.

```
. est store e1
```

```
. lrtest e1 e2
```

```
Likelihood-ratio test
(Assumption: e2 nested in e1)
```

Model without interaction term

```
. logistic base_wazc i.pn22 i.site1
```

```
Logistic regression           Number of obs   =   22,553
                             LR chi2(2)            =   318.58
                             Prob > chi2           =   0.0000
Log likelihood = -12905.218   Pseudo R2       =   0.0122
```

base_wazc	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	1.201701	.0590484	3.74	0.000	1.091367	1.32319
site1 Africa	.5888268	.0179041	-17.42	0.000	.5547605	.624985
_cons	.4640105	.0099649	-35.75	0.000	.4448849	.4839582

Note: **_cons** estimates baseline odds.

```
. est store e2
```

```
LR chi2(1) = 0.59
Prob > chi2 = 0.4442
```

For WHZ

Model with interaction term

```
. logistic base_whz3 i.pn22 i.pn22##i.site1
```

```
Logistic regression           Number of obs   =    22,525
                             LR chi2(3)         =     42.34
                             Prob > chi2        =     0.0000
Log likelihood = -9701.3633   Pseudo R2      =     0.0022
```

base_whz3	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	1.450906	.118295	4.56	0.000	1.236629	1.702312
site1 Africa	.9107856	.035816	-2.38	0.017	.8432246	.9837597
pn22#site1 Yes# Africa	.9446536	.1065825	-0.50	0.614	.7572408	1.17845
_cons	.185791	.0052448	-59.62	0.000	.1757906	.1963603

Note: `_cons` estimates baseline odds.

```
.
. est store e1
```

```
. lrtest e1 e2
```

```
Likelihood-ratio test
(Assumption: e2 nested in e1)
```

Model without interaction term

```
. logistic base_whz3 i.pn22 i.site1
```

```
Logistic regression           Number of obs   =    22,525
                             LR chi2(2)         =     42.09
                             Prob > chi2        =     0.0000
Log likelihood = -9701.4906   Pseudo R2      =     0.0022
```

base_whz3	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]	
pn22 Yes	1.408146	.0793466	6.07	0.000	1.260909	1.572575
site1 Africa	.9045109	.0333397	-2.72	0.006	.8414708	.9722737
_cons	.1864533	.0050904	-61.52	0.000	.1767385	.1967021

Note: `_cons` estimates baseline odds.

```
.
. est store e2
```

```
LR chi2(1) = 0.25
Prob > chi2 = 0.6139
```

Supplementary Files:

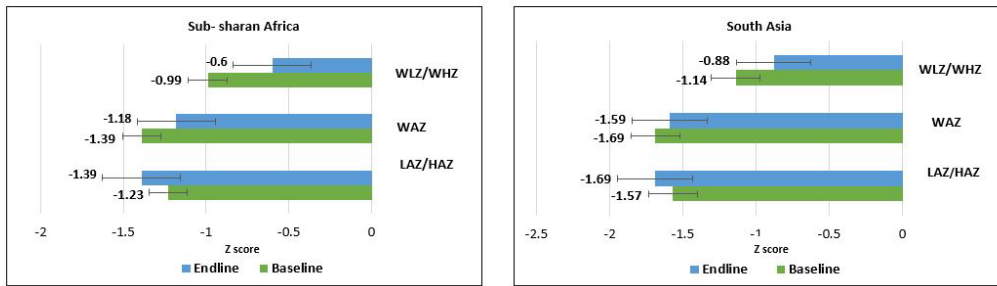


Fig S1: Mean baseline and endline height-for-age z score (LAZ/HAZ), weight-for-age z score (WAZ), and weight-for-height z score (WLZ/WHZ) among the rotavirus negative under 5 children from Sub-Saharan Africa and South Asia.