Supplemental table 1 Linear models for fecal biomarkersa quartile groups and 3-month length velocity z-scores, children 9-24 months, Bhaktapur, Nepal

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **9-12 monthsb**  n=162 | | | | | **12-15 months**  n=207 | | | **15-18 months**  n=143 | | | | **18-21 months**  n=202 | | | **21-24 months**  n=201 | | | **9-24 monthsc**  n= 231 | | |
| B | | CI | | ß | B | CI | ß | B | CI | | ß | B | CI | ß | B | CI | ß | B | CI | ß |
| AAT  Low  Medium High  HAZd  Diarrheae  Constant  MPO  Low  Medium High  HAZ  Diarrhea  Constant  NEO  Low  Medium High  HAZ  Diarrhea Constant | Ref  -0.03  0.17  0.02  -0.80  -0.55  Ref  0.11  0.03  0.02  -0.72  -0.59  Ref  0.18  -0.25  0.06  -0.54  -0.53 | -0.43, 0.37  -0.30, 0.64  -0.15, 0.19  -4.42, 2,81  -0.30, 0.51  -0.43, 0.50  -0.15, 0.19  -4.37, 2.92  -0.22, 0.58  -0.71, 0.20  -0.12, 0.23  -4.09, 3.01 | | -0.02  0.07  0.02  -0.04  0.05  0.01  0.02  -0.03  0.09  -0.11  0.05  -0.02 | | Ref  0.02  -0.13  -0.07  1.20  -0.76  Ref  0.03  **-0.47**  -0.07  0.85  -0.68  Ref  -0.04  -0.13  -0.07  1.20  -0.73 | -0.33, 0.36  -0.53, 0.27  -0.23, 0.09  -1.43, 3.81  -0.31, 0.36  -0.86, -0.07  -0.22, 0.09  -1.72, 3.43  -0.39, 0.31  -0.53, 0.27  -0.23, 0.09  -1.42, 3.81 | 0.01  -0.05  -0.06  0.06  0.01  -0.20  -0.06  0.05  -0.02  -0.05  -0.06  0.06 | Ref  -0.40  -0.12  0  -2.57  -0.43  Ref  -0.26  -0.29  -0.03  -2.58  -0.48  Ref  0.15  0  -0.02  -2.42  -0.75 | -0.84, 0.06  -0.65, 0.40  -0.21, 0.21  -6.83, 1.69  -0.72, 0.19  -0.81, 0.24  -0.24, 0.18  -6.86, 1.71  -0.31, 0.60  -0.53, 0.54  -0.23, 0.19  -6.81, 1.96 | -0.18  -0.05  0  -0.10  -0.12  -0.11  -0.02  -0.10  0.06  0  -0.02  -0.09 | | Ref  0.06  -0.33  0.07  -1.27  -0.36  Ref  0.18  0.31  0.08  -0.79  -0.58  Ref  0.07  0.10  0.07  -0.92  -0.48 | -0.28, 0.40  -0.72, 0.07  -0.07, 0.22  -4.08, 1.54  -0.17, 0.52  -0.09, 0.70  -0.07, 0.22  -3.58, 2  -0.27, 0.41  -0.30, 0.50  -0.08, 0.22  -3.77, 1.93 | 0.03  -0.14  0.07  -0.06  0.09  0.13  0.08  -0.04  0.04  0.04  0.07  -0.05 | Ref  -0.17  -0.10  -0.04  -0.81  -0.39  Ref  -0.06  -0.31  -0.03  -0.82  -0.38  Ref  -0.01  0.07  -0.04  -0.76  -0.51 | -0.49, 0.16  -0.47, 0.28  -0.18, 0.10  -4.42, 2.79  -0.38, 0.26  -0.68, 0.06  -0.17, 0.10  -4.41, 2.76  -0.34, 0.32  -0.31, 0.44  -0.18, 0.10  -4.39, 2.88 | -0.09  -0.04  -0.04  -0.03  -0.03  -0.14  -0.03  -0.03  -0.01  0.31  -0.04  -0.03 | Ref  -0.11  -0.15  0.02  -0.59  -0.46  Ref  0.01  -0.15  0.02  -0.60  -0.51  Ref  0.08  0.01  0.03  -0.57  -0.59 | -0.27, 0.06  -0.32, 0.03  -0.03, 0.08  -1.80, 0.63  -0.14, 0.15  -0.32, 0.03  -0.03, 0.08  -1.85, 0.64  -0.06, 0.22  -0.16, 0.17  -0.03, 0.08  -1.80, 0.67 | -0.06  -0.07  0.02  -0.03  0.01  -0.15  0.02  -0.03  0.05  0.01  0.03  -0.03 |

a AAT: Alpha-1-antitrypsin; MPO: myeloperoxidase; NEO: neopterin. Low: <= 25th percentile, Medium 25-75th percentile, High >= 75th percentile. Significant associations in bold.

b Multiple linear regression models used

c Generalized estimating equations (GEE) models with first order autoregressive covariance matrix used

d Height-for-age z-score measured at the beginning of the growth period.

e Proportion of days with diarrhea in growth period