

Penalized regression models to select biomarkers of environmental enteric dysfunction associated with linear growth acquisition in a Peruvian birth cohort, J. M. Colston *et al.* 2019, *PLOS Neglected Tropical Diseases*

S2 Table: Coefficient estimates (with 95% confidence intervals) from linear regression models for biomarkers selected by SCAD along with the predicted difference in child's height 2 months after the last sample for children at the 25th and 75th percentile of the biomarker distribution adjusted for contemporaneous LAZ-score

Biomarker	7 & 15 months		7, 15 & 24 months	
	Coefficient - LAZ score	Predicted height difference (cm) at 17 months	Coefficient - LAZ score	Predicted height difference (cm) at 26 months
5-OH-Indole-3-acetic Acid (5-HIAA)	-	-	0.00 (-0.02, 0.03)	0.01
Alpha-2-Macroglobulin (A2Macro)	-0.11 (-0.19, -0.03)	-0.17	-	-
Alpha-amino-n-butyric acid (AABA)	-0.01 (-0.07, 0.05)	-0.02	-	-
Adiponectin	-0.01 (-0.08, 0.05)	-0.02	-0.05 (-0.12, 0.02)	-0.09
alpha-1-acid glycoprotein (AGP)	0.05 (-0.03, 0.13)	0.08	-0.01 (-0.08, 0.07)	-0.01
Apolipoprotein B (Apo B)	-	-	0.03 (-0.04, 0.10)	0.06
Apolipoprotein C-I (Apo C-I)	-0.10 (-0.20, -0.00)	-0.14	-	-
Apolipoprotein D (Apo D)	-	-	-0.02 (-0.10, 0.06)	-0.03
Arginine	0.04 (-0.05, 0.13)	0.08	0.09 (0.01, 0.17)	0.23
Beta-amino-iso-butyric acid (BABA)	-	-	-0.01 (-0.05, 0.02)	-0.08
Citrulline	-0.01 (-0.10, 0.08)	-0.01	0.02 (-0.05, 0.09)	0.04
Eotaxin-3	-	-	0.02 (-0.04, 0.07)	0.03
Fecal Myeloperoxidase (MPO)	0.02 (0.00, 0.05)	0.15	0.02 (-0.00, 0.04)	0.13
Growth Hormone (GH)	-0.00 (-0.03, 0.03)	-0.01	-	-
Hemoglobin	0.29 (0.08, 0.49)	0.18	0.23 (0.05, 0.42)	0.17
Homoserine	-0.03 (-0.06, 0.01)	-0.08	-	-
Immunoglobulin A (IgA)	-0.06 (-0.12, 0.01)	-0.11	-	-
Immunoglobulin M (IgM)	0.03 (-0.09, 0.15)	0.04	0.07 (-0.02, 0.16)	0.11
Insulin-like growth factor-binding protein 3 (IGFBP-3)	-	-	-0.05 (-0.12, 0.01)	-0.12
Interleukin-8 (IL-8) chemokine	-	-	0.03 (-0.01, 0.07)	0.12
Lactulose	-0.01 (-0.03, 0.01)	-0.05	-	-
Leptin	0.01 (-0.03, 0.06)	0.06	-0.02 (-0.06, 0.01)	-0.11
Lysine 244	-	-	-0.02 (-0.07, 0.03)	-0.05

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Biomarker	7 & 15 months		7, 15 & 24 months	
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Monocyte Chemotactic Protein 4 (MCP-4)	-	-	-0.01 (-0.07, 0.05)	-0.04
Myoglobin	-	-	0.01 (-0.03, 0.06)	0.04
Pulmonary and Activation-Regulated Chemokine (PARC)	-0.02 (-0.09, 0.05)	-0.03	-0.04 (-0.11, 0.03)	-0.07
Proline	-0.08 (-0.18, 0.01)	-0.17	-0.11 (-0.18, -0.03)	-0.21
Serum Amyloid P-Component (SAP)	-0.06 (-0.13, 0.01)	-0.13	-0.02 (-0.09, 0.06)	-0.05
Sarcosine	0.04 (0.00, 0.08)	0.19	-	-
Sex Hormone-Binding Globulin (SHBG)	-0.02 (-0.07, 0.03)	-0.06	-0.04 (-0.09, 0.01)	-0.14
Thymus and activation regulated chemokine (TARC)	-	-	0.01 (-0.03, 0.06)	0.06
Thyroxine-Binding Globulin (TBG)	-	-	0.04 (-0.08, 0.15)	0.04
Transferrin	0.14 (0.01, 0.27)	0.19	-	-
Tryptophan	0.09 (0.00, 0.17)	0.15	0.04 (-0.02, 0.10)	0.08
Thyroid-Stimulating Hormone (TSH)	-0.06 (-0.11, -0.02)	-0.15	-	-
von Willebrand Factor (vWF)	-0.01 (-0.05, 0.03)	-0.04	-	-