



Table S1. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Starches Expenditures in Ethiopia.

Ethiopia—Expenditures at 5 years Predicting HAZ at 8 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0123		0.0170		0.0484		0.052		0.0625	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Starches	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.004	0.414	0.004	0.460
<i>Individual Variable</i>										
Female			0.14	0.003	0.13	0.005	0.13	0.004	0.13	0.006
<i>Community Variable</i>										
Rural/Urban Status					-0.35	<0.001	-0.33	<0.001	-0.20	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.007	0.01	0.062
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.14	0.016
7–12 years									0.21	0.014
12+ years									-0.001	0.997
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.013
7–12 years									0.20	0.013
12+ years									0.28	0.027
Ethiopia—Expenditures at 8 years Predicting HAZ at 12 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0066		0.0060		0.0505		0.0509		0.0580	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Starches	0.01	<0.001	0.01	<0.001	0.01	0.009	0.003	0.592	0.01	0.320
<i>Individual Variable</i>										
Female			0.01	0.908	-0.01	0.844	-0.01	0.845	-0.02	0.704
<i>Community Variable</i>										
Rural/Urban Status					-0.42	<0.001	-0.41	<0.001	-0.30	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.004	0.206	0.001	0.782
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.007
7–12 years									0.19	0.029
12+ years									0.13	0.478
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.09	0.119
7–12 years									0.13	0.099
12+ years									0.16	0.193

Table S2. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Protein Expenditures in Ethiopia.

Ethiopia – Expenditures at 5 years Predicting HAZ at 8 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0108		0.0161		0.0461		0.0518		0.0625	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.004	0.625	0.01	0.493
<i>Individual Variable</i>										
Female			0.15	0.002	0.14	0.003	0.14	0.004	0.13	0.006
<i>Community Variable</i>										
Rural/Urban Status					−0.35	<0.001	−0.33	<0.001	−0.21	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	0.025
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.14	0.017
7–12 years									0.21	0.016
12+ years									−0.02	0.928
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.014
7–12 years									0.19	0.016
12+ years									0.27	0.029
Ethiopia – Expenditures at 8 years Predicting HAZ at 12 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0035		0.0029		0.0476		0.0511		0.0579	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.02	0.009	0.02	0.009	0.01	0.206	−0.01	0.393	−0.01	0.365
<i>Individual Variable</i>										
Female			0.001	0.983	−0.01	0.776	−0.01	0.833	−0.02	0.689
<i>Community Variable</i>										
Rural/Urban Status					−0.42	<0.001	−0.41	<0.001	−0.30	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.007	0.01	0.052
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.008
7–12 years									0.18	0.032
12+ years									0.14	0.466
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.09	0.122
7–12 years									0.13	0.105
12+ years									0.16	0.188

Table S3. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Micronutrients Expenditures in Ethiopia.

Ethiopia – Expenditures at 5 years Predicting HAZ at 8 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0128		0.0180		0.0470		0.0520		0.0626	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.01	0.470	0.01	0.399
<i>Individual Variable</i>										
Female			0.15	0.002	0.14	0.003	0.14	0.003	0.13	0.006
<i>Community Variable</i>										
Rural/Urban Status					-0.34	<0.001	-0.33	<0.001	-0.20	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.002	0.01	0.037
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.14	0.018
7–12 years									0.21	0.016
12+ years									-0.02	0.915
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.014
7–12 years									0.19	0.016
12+ years									0.27	0.030
Ethiopia – Expenditures at 8 years Predicting HAZ at 12 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0055		0.0049		0.0483		0.0508		0.0576	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.02	0.001	0.02	0.001	0.01	0.095	-0.003	0.702	-0.01	0.562
<i>Individual Variable</i>										
Female			0.002	0.968	-0.01	0.788	0.01	0.833	-0.02	0.690
<i>Community Variable</i>										
Rural/Urban Status					-0.41	<0.001	-0.41	<0.001	-0.3	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.020	0.01	0.085
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.008
7–12 years									0.18	0.031
12+ years									0.13	0.478
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.09	0.123
7–12 years									0.13	0.109
12+ years									0.16	0.193

Table S4. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household ASF Expenditures in Ethiopia.

Ethiopia – Expenditures at 5 years Predicting HAZ at 8 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0049		0.0099		0.0417		0.0518		0.0622	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.02	0.002	0.02	0.001	0.02	0.009	-0.005	0.608	-0.002	0.834
<i>Individual Variable</i>										
Female			0.15	0.002	0.13	0.004	0.13	0.004	0.13	0.007
<i>Community Variable</i>										
Rural/Urban Status					-0.36	<0.001	-0.33	<0.001	-0.20	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	0.002
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.14	0.016
7–12 years									0.21	0.015
12+ years									-0.005	0.981
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.014
7–12 years									0.19	0.015
12+ years									0.28	0.027
Ethiopia – Expenditures at 8 years Predicting HAZ at 12 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0039		0.003		0.0476		0.0508		0.0575	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.02	0.006	0.02	0.006	0.01	0.207	-0.004	0.624	-0.005	0.6236
<i>Individual Variable</i>										
Female			-0.0005	0.991	-0.01	0.764	-0.01	0.838	-0.02	0.694
<i>Community Variable</i>										
Rural/Urban Status					-0.42	<0.001	-0.41	<0.001	-0.3	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.010	0.005	0.079
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.008
7–12 years									0.18	0.031
12+ years									0.13	0.477
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.09	0.124
7–12 years									0.13	0.111
12+ years									0.16	0.198

Table S5. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Starches Expenditures in India.

India—Expenditures at 5 years Predicting HAZ at 8 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	-0.0006		0.0030		0.0819		0.0831		0.1193	
	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value
Starches	0.0001	0.982	-0.0001	0.990	0.01	0.022	0.004	0.570	0.01	0.224
<i>Individual Variable</i>										
Female			0.12	0.007	0.13	0.003	0.13	0.004	0.12	0.006
<i>Community Variable</i>										
Rural/Urban Status					-0.63	<0.001	-0.62	<0.001	-0.41	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.005	0.075	0.001	0.643
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.17	0.004
7–12 years									0.23	<0.001
12+ years									0.62	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.078
7–12 years									0.19	0.002
12+ years									0.38	<0.001
India—Expenditures at 8 years Predicting HAZ at 12 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0061		0.0060		0.0645		0.0678		0.0983	
	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value
Starches	0.02	<0.001	0.02	<0.001	0.02	0.003	0.002	0.763	0.002	0.744
<i>Individual Variable</i>										
Female			0.04	0.358	0.05	0.304	0.05	0.290	0.04	0.403
<i>Community Variable</i>										
Rural/Urban Status					-0.54	<0.001	-0.53	<0.001	-0.34	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.007	0.004	0.114
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.066
7–12 years									0.14	0.044
12+ years									0.49	0.003
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.18	0.003
7–12 years									0.30	<0.001
12+ years									0.42	<0.001

Table S6. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Protein Expenditures in India.

India—Expenditures at 5 years Predicting HAZ at 8 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0232		0.0265		0.0943		0.0943		0.1230	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.04	<0.001	0.04	<0.001	0.03	<0.001	0.04	<0.001	0.02	0.003
<i>Individual Variable</i>										
Female			0.12	0.008	0.13	0.004	0.13	0.003	0.12	0.005
<i>Community Variable</i>										
Rural/Urban Status					-0.58	<0.001	-0.57	<0.001	-0.39	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.002	0.335	-0.002	0.496
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.012
7–12 years									0.20	0.002
12+ years									0.56	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.084
7–12 years									0.18	0.003
12+ years									0.28	<0.001
India—Expenditures at 8 years Predicting HAZ at 12 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0219		0.0220		0.0702		0.0701		0.0987	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.04	<0.001	0.04	<0.001	0.03	<0.001	0.02	0.035	0.01	0.347
<i>Individual Variable</i>										
Female			0.05	0.297	0.05	0.270	0.05	0.272	0.04	0.390
<i>Community Variable</i>										
Rural/Urban Status					-0.50	<0.001	-0.51	<0.001	-0.34	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.003	0.357	0.002	0.378
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.080
7–12 years									0.13	0.055
12+ years									0.48	0.004
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.18	0.004
7–12 years									0.29	<0.001
12+ years									0.41	<0.001

Table S7. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Micronutrients Expenditures in India.

India—Expenditures at 5 years Predicting HAZ at 8 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0182		0.0218		0.0906		0.0906		0.1210	
	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value
Micronutrients	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.03	<0.001	0.02	0.028
<i>Individual Variable</i>										
Female			0.12	0.007	0.13	0.003	0.13	0.003	0.12	0.005
<i>Community Variable</i>										
Rural/Urban Status					-0.58	<0.001	-0.57	<0.001	-0.39	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.003	0.351	-0.001	0.630
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.16	0.007
7–12 years									0.21	0.001
12+ years									0.58	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.081
7–12 years									0.18	0.003
12+ years									0.37	<0.001
India—Expenditures at 8 years Predicting HAZ at 12 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0213		0.0212		0.0702		0.02		0.0985	
	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value	β	<i>p</i>-Value
Micronutrients	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.02	0.051	0.01	0.421
<i>Individual Variable</i>										
Female			0.04	0.353	0.05	0.307	0.05	0.302	0.04	0.407
<i>Community Variable</i>										
Rural/Urban Status					-0.51	<0.001	-0.51	<0.001	-0.34	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.002	0.596	0.003	0.488
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.072
7–12 years									0.13	0.055
12+ years									0.48	0.004
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.18	0.004
7–12 years									0.29	<0.001
12+ years									0.42	<0.001

Table S8. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household ASF Expenditures in India.

India—Expenditures at 5 years Predicting HAZ at 8 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0281		0.0314		0.0941		0.0938		0.1231	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.05	<0.001	0.05	<0.001	0.04	<0.001	0.04	<0.001	0.03	0.003
<i>Individual Variable</i>										
Female			0.12	0.008	0.13	0.004	0.13	0.003	0.12	0.005
<i>Community Variable</i>										
Rural/Urban Status					-0.56	<0.001	-0.55	<0.001	-0.38	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.002	0.505	-0.001	0.586
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.15	0.011
7–12 years									0.20	0.002
12+ years									0.56	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.078
7–12 years									0.18	0.003
12+ years									0.38	<0.001
India—Expenditures at 8 years Predicting HAZ at 12 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0276		0.0277		0.0722		0.072		0.0997	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.05	<0.001	0.05	<0.001	0.03	<0.001	0.03	0.005	0.02	0.091
<i>Individual Variable</i>										
Female			0.05	0.272	0.05	0.256	0.05	0.258	0.04	0.373
<i>Community Variable</i>										
Rural/Urban Status					-0.49	<0.001	-0.49	<0.001	-0.33	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.002	0.439	0.002	0.577
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.093
7–12 years									0.12	0.065
12+ years									0.47	0.004
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.18	0.004
7–12 years									0.29	<0.001
12+ years									0.41	<0.001

Table S9. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Starches Expenditures in Peru.

Peru – Expenditures at 5 years Predicting HAZ at 8 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	-0.0005		-0.001		0.1543		0.1661		0.2192	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Starches	-0.001	0.785	-0.001	0.775	0.002	0.647	-0.01	0.004	-0.01	0.050
<i>Individual Variable</i>										
Female			0.02	0.713	0.04	0.384	0.04	0.384	0.04	0.474
<i>Community Variable</i>										
Rural/Urban Status					-0.79	<0.001	-0.71	<0.001	-0.44	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.002	0.095
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.26	0.003
7–12 years									0.64	<0.001
12+ years									0.82	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.595
7–12 years									0.19	0.327
12+ years									0.33	0.101
Peru – Expenditures at 8 years Predicting HAZ at 12 years										
Starches	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0023		0.0024		0.1125		0.1606		0.2086	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Starches	-0.01	0.027	-0.01	0.029	0.002	0.556	-0.03	<0.001	-0.02	<0.001
<i>Individual Variable</i>										
Female			-0.06	0.279	-0.04	0.368	-0.05	0.285	-0.06	0.235
<i>Community Variable</i>										
Rural/Urban Status					-0.81	<0.001	-0.68	<0.001	-0.40	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	<0.001
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.005
7–12 years									0.60	<0.001
12+ years									0.70	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.02	0.921
7–12 years									0.16	0.443
12+ years									0.36	0.101

Table S10. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Protein Expenditures in Peru.

Peru – Expenditures at 5 years Predicting HAZ at 8 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0544		0.0538		0.1707		0.1710		0.2210	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
<i>Individual Variable</i>										
Female			-0.003	0.947	0.03	0.561	0.02	0.594	0.02	0.624
<i>Community Variable</i>										
Rural/Urban Status					-0.71	<0.001	-0.71	<0.001	-0.45	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.002	0.203	-0.003	0.062
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.002
7–12 years									0.64	<0.001
12+ years									0.81	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.592
7–12 years									0.19	0.335
12+ years									0.32	0.119
Peru – Expenditures at 8 years Predicting HAZ at 12 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0506		0.0508		0.1531		0.1534		0.2044	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.01	<0.001
<i>Individual Variable</i>										
Female			-0.06	0.228	-0.05	0.332	-0.05	0.310	-0.05	0.264
<i>Community Variable</i>										
Rural/Urban Status					-0.77	<0.001	-0.77	<0.001	-0.45	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.002	0.200	0.0002	0.912
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.005
7–12 years									0.62	<0.001
12+ years									0.71	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.02	0.938
7–12 years									0.17	0.422
12+ years									0.35	0.110

Table S11. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Micronutrients Expenditures in Peru.

Peru – Expenditures at 5 years Predicting HAZ at 8 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0569		0.0564		0.1712		0.1721		0.2211	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.02	<0.001	0.02	<0.001	0.01	<0.001	0.01	<0.001	0.01	0.006
<i>Individual Variable</i>										
Female			-0.003	0.946	0.03	0.561	0.02	0.611	0.02	0.634
<i>Community Variable</i>										
Rural/Urban Status					-0.71	<0.001	-0.71	<0.001	-0.44	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.002	0.083	-0.003	0.047
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.002
7–12 years									0.64	<0.001
12+ years									0.81	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.10	0.593
7–12 years									0.18	0.345
12+ years									0.31	0.128
Peru – Expenditures at 8 years Predicting HAZ at 12 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0538		0.0540		0.1554		0.1551		0.2048	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.01	<0.001
<i>Individual Variable</i>										
Female			-0.06	0.223	-0.05	0.325	-0.05	0.316	-0.05	0.26
<i>Community Variable</i>										
Rural/Urban Status					-0.77	<0.001	-0.77	<0.001	0.45	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.001	0.567	-0.0004	0.809
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.005
7–12 years									0.62	<0.001
12+ years									0.71	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.01	0.944
7–12 years									0.17	0.432
12+ years									0.25	0.117

Table S12. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household ASF Expenditures in Peru.

Peru – Expenditures at 5 years Predicting HAZ at 8 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0582		0.0576		0.1710		0.1712		0.2210	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.02	<0.001	0.02	<0.001	0.01	<0.001	0.02	<0.001	0.01	0.006
<i>Individual Variable</i>										
Female			-0.003	0.954	0.03	0.556	0.02	0.5842	0.02	0.619
<i>Community Variable</i>										
Rural/Urban Status					-0.71	<0.001	-0.71	<0.001	-0.44	<0.001
<i>Household Variable</i>										
Total Food Expenditures							-0.002	0.226	-0.003	0.068
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.002
7–12 years									0.64	<0.001
12+ years									0.81	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.11	0.577
7–12 years									0.19	0.327
12+ years									0.32	0.117
Peru – Expenditures at 8 years Predicting HAZ at 12 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0580		0.0582		0.1558		0.1558		0.2052	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.01	<0.001
<i>Individual Variable</i>										
Female			-0.06	0.238	-0.04	0.344	-0.05	0.326	-0.05	0.272
<i>Community Variable</i>										
Rural/Urban Status					-0.75	<0.001	-0.76	<0.001	-0.45	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.001	0.327	-0.000003	0.999
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.27	0.005
7–12 years									0.62	<0.001
12+ years									0.71	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.02	0.926
7–12 years									0.17	0.424
12+ years									0.35	0.113

Table S13. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Fats Expenditures in Vietnam.

Vietnam – Expenditures at 5 years Predicting HAZ at 8 years										
Fats	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0172		0.0185		0.0881		0.1317		0.1985	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Fats	0.19	<0.001	0.19	<0.001	0.11	0.003	0.001	0.972	-0.03	0.385
<i>Individual Variable</i>										
Female			0.09	0.074	0.10	0.039	0.10	0.036	0.09	0.053
<i>Community Variable</i>										
Rural/Urban Status					-0.7	<0.001	-0.51	<0.001	-0.40	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	<0.001
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.57	<0.001
7–12 years									0.66	<0.001
12+ years									0.99	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.33	0.002
7–12 years									0.39	<0.001
12+ years									0.51	<0.001
Vietnam – Expenditures at 8 years Predicting HAZ at 12 years										
Fats	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.003		0.0024		0.0715		0.1102		0.1735	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Fats	0.06	0.015	0.06	0.015	0.04	0.106	-0.03	0.283	-0.02	0.307
<i>Individual Variable</i>										
Female			0.01	0.846	0.02	0.696	0.01	0.861	0.005	0.921
<i>Community Variable</i>										
Rural/Urban Status					-0.75	<0.001	-0.46	<0.001	-0.35	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	<0.001
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.66	<0.001
7–12 years									0.69	<0.001
12+ years									0.95	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.24	0.041
7–12 years									0.39	0.001
12+ years									0.57	<0.001

Table S14. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Proteins Expenditures in Vietnam.

Vietnam – Expenditures at 5 years Predicting HAZ at 8 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0925		0.0932		0.1277		0.1338		0.1984	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.01	0.048	0.003	0.477
<i>Individual Variable</i>										
Female			0.07	0.138	0.08	0.078	0.09	0.050	0.08	0.062
<i>Community Variable</i>										
Rural/Urban Status					−0.52	<0.001	−0.50	<0.001	−0.39	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	0.007
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.57	<0.001
7–12 years									0.66	<0.001
12+ years									0.98	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.32	0.003
7–12 years									0.38	<0.001
12+ years									0.50	<0.001
Vietnam – Expenditures at 8 years Predicting HAZ at 12 years										
Proteins	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0822		0.0816		0.1110		0.114		0.1730	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Proteins	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.01	0.007	0.001	0.812
<i>Individual Variable</i>										
Female			0.005	0.926	0.01	0.797	0.01	0.844	0.005	0.924
<i>Community Variable</i>										
Rural/Urban Status					−0.53	<0.001	−0.47	<0.001	−0.36	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.005	0.016	0.01	0.006
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.67	<0.001
7–12 years									0.69	<0.001
12+ years									0.95	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.24	0.042
7–12 years									0.39	0.002
12+ years									0.57	<0.001

Table S15. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household Micronutrients Expenditures in Vietnam.

Vietnam – Expenditures at 5 years Predicting HAZ at 8 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.097		0.0977		0.1311		0.1346		0.1984	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.01	0.021	0.003	0.462
<i>Individual Variable</i>										
Female			0.07	0.120	0.08	0.07	0.09	0.051	0.08	0.061
<i>Community Variable</i>										
Rural/Urban Status					−0.51	<0.001	−0.50	<0.001	−0.39	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	0.007	0.01	0.017
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.57	<0.001
7–12 years									0.65	<0.001
12+ years									0.98	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.32	0.003
7–12 years									0.38	<0.001
12+ years									0.50	<0.001
Vietnam – Expenditures at 8 years Predicting HAZ at 12 years										
Micronutrients	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0856		0.0851		0.1114		0.113		0.1729	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Micronutrients	0.02	<0.001	0.02	<0.001	0.02	<0.001	0.01	0.012	0.0001	0.979
<i>Individual Variable</i>										
Female			0.004	0.932	0.01	0.805	0.01	0.844	0.005	0.9277
<i>Community Variable</i>										
Rural/Urban Status					−0.51	<0.001	−0.47	<0.001	−0.36	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.004	0.045	0.01	0.008
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.67	<0.001
7–12 years									0.70	<0.001
12+ years									0.95	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.24	0.041
7–12 years									0.39	0.002
12+ years									0.58	<0.001

Table S16. Unadjusted and Adjusted Models for Predicting Child HAZ Using Past Household ASF Expenditures in Vietnam.

Vietnam – Expenditures at 5 years Predicting HAZ at 8 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0923		0.0930		0.1277		0.1338		0.1984	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.01	0.045	0.003	0.449
<i>Individual Variable</i>										
Female			0.07	0.141	0.08	0.080	0.09	0.050	0.08	0.062
<i>Community Variable</i>										
Rural/Urban Status					−0.52	<0.001	−0.50	<0.001	−0.39	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.01	<0.001	0.01	0.007
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.57	<0.001
7–12 years									0.66	<0.001
12+ years									0.98	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.32	0.003
7–12 years									0.38	<0.001
12+ years									0.50	<0.001
Vietnam – Expenditures at 8 years Predicting HAZ at 12 years										
Animal Source Foods	Model 1		Model 2		Model 3		Model 4		Model 5	
Model Adjusted R-Squared	0.0818		0.0812		0.1104		0.1134		0.1730	
	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value	β	<i>p</i> -Value
Animal Source Foods	0.03	<0.001	0.03	<0.001	0.02	<0.001	0.01	0.008	0.001	0.896
<i>Individual Variable</i>										
Female			0.004	0.941	0.01	0.808	0.01	0.852	0.005	0.926
<i>Community Variable</i>										
Rural/Urban Status					−0.53	<0.001	−0.47	<0.001	−0.36	<0.001
<i>Household Variable</i>										
Total Food Expenditures							0.005	0.011	0.01	0.004
<i>Maternal schooling</i>										
No Schooling									Reference	
1–6 years									0.67	<0.001
7–12 years									0.70	<0.001
12+ years									0.95	<0.001
<i>Paternal schooling</i>										
No Schooling									Reference	
1–6 years									0.24	0.041
7–12 years									0.39	0.002
12+ years									0.58	<0.001

