

Supplementary Table S1: The relationship of adherence to age-appropriate feeding practices and other determinants with child Height-for-Age (HAZ).

HAZ									
	Model 1 ^a			Model 2 ^b			Model 3 ^c		
Full adjusted model	Total number of adherence to MDD or MMF (n=1,918 ; observations=8,873)			Total number of adherence to MAD (n=1,918 ; observations=8,873)			Total number of adherence to ADF (n=1,918 ; observations=8,873)		
Fixed effects	Cof	95CI %	p-Value	Cof	95CI %	p-Value	Cof	95CI %	p-Value
Sex (boy)	-0.10	-0.16 - -0.05	<0.001	-0.12	-0.16 - -0.05	<0.001	-0.11	-0.16 - -0.05	<0.001
Age (in month)	-0.10	-0.10 - -0.09	<0.001	-0.10	-0.10 - -0.09	<0.001	-0.10	-0.10 - -0.09	<0.001
Age ² (in month)	0.002	0.0015 - 0.0019	<0.001	0.002	0.0015 - 0.0019	<0.001	0.002	0.0015 - 0.0018	<0.001
Total number of adherence to MDD (Never)									
1 or 2 times	0.09	0.02 - 0.17	0.010						
3 or always	0.10	-0.01 - 0.20	0.070						
Total number of adherence to MMF(Never)									
1 or 2 times	-0.16	-0.30 - -0.01	0.031						
3 or always	-0.30	-0.45 - -0.15	<0.001						
Total number of adherence to MAD (Never)									
1 or 2 times				0.01	-0.05 - 0.08	0.710			
3 or always				-0.09	-0.20 - 0.02	0.095			
Total number of adherence to ADF(Never)									
1 or 2 times							-0.001	-0.07 - 0.07	0.985
3 or always							0.38	0.26 - 0.50	<0.001
Maternal education (years)	0.04	0.03 - 0.04	<0.001	0.03	0.03 - 0.04	<0.001	0.03	0.02 - 0.04	<0.001
Wealth index	0.10	0.07 - 0.12	<0.001	0.10	0.07 - 0.12	<0.001	0.10	0.08 - 0.12	<0.001
Caretaker drinking water was treated	0.09	0.01 - 0.16	0.023	0.09	0.02 - 0.12	0.016	0.08	0.01 - 0.16	<0.001
Improved toilet	0.13	0.06 - 0.19	<0.001	0.14	0.07 - 0.21	<0.001	0.14	0.07 - 0.21	<0.001
Random effect									
Variances of random intercept	0.04	0.01 - 0.193		0.04	0.01 - 0.21		0.04	0.008 - 0.21	
Variance of random slope	0.003	0.002 - 0.003		0.003	0.002 - 0.003		0.003	0.002 - 0.003	
Variance of residuals	0.62	0.60 - 0.64		0.62	0.60 - 0.64		0.62	0.60 - 0.64	
Log-likelihood		-12183.22			-12195.77			-12175.54	
LR test			<0.001			<0.001			<0.001

^a Model 1 presents linear mixed-effects model of the relationship between adherence to MDD or MMF and other determinants with HAZ.

^b Model 2 presents linear mixed-effects model of the relationship between adherence to MAD and other determinants with HAZ.

^c Model 3 presents linear mixed-effects model of the relationship between adherence of ADF and other determinants with HAZ.

MDD= minimum dietary diversity, MMF= minimum meal frequency; MAD=minimum acceptable diet; and ADF=age-appropriate daily feeding.

Supplementary Table S2: The relationship of adherence to age-appropriate feeding practices and other determinants with child Weight-for-Height (WHZ).

WHZ									
Full adjusted model	Model 1 ^a			Model 2 ^b			Model 3 ^c		
	Total number of adherence to MDD or MMF (n=1,995; observations=9,231)			Total number of adherence to MDA (n=1,995; observations= 9,231)			Total number of adherence to ADF (n=1,995; observations= 9,231)		
Fixed effects	Cof	95CI %	<i>p-Value</i>	Cof	95CI %	<i>p-Value</i>	Cof	95CI %	<i>p-Value</i>
Sex (boy)	-0.06	-0.11 - -0.01	0.020	-0.06	-0.11 - -0.01	0.015	-0.06	-0.11 - -0.01	0.018
Age (in month)	-0.05	-0.05 - -0.04	<0.001	-0.05	-0.05 - -0.04	<0.001	-0.05	-0.06 - -0.04	<0.001
Age ² (in months)	0.001	0.0009 - 0.0012	<0.001	0.001	0.0008 - 0.001	<0.001	0.001	0.009 - 0.001	<0.001
Total number of adherence to MDD (Never)									
1 or 2 times	0.13	0.07 - 0.19	<0.001						
3 or always	0.23	0.13 - 0.32	<0.001						
Total number of adherence to MMF(Never)									
1 or 2 times	0.04	-0.09 - 0.16	0.568						
3 or always	-0.03	-0.16 - 0.10	0.636						
Total number of adherence to MAD (Never)									
1 or 2 times				0.10	0.05 - 0.16	<0.001			
3 or always				0.17	0.08 - 0.27	<0.001			
Total number of adherence to ADF (Never)									
1 or 2 times							0.02	-0.04 - 0.07	0.613
3 or always							0.03	-0.08 - .14	0.609
Maternal education (years)	0.01	0.001 - 0.02	0.030	0.01	0.001 - 0.02	0.022	0.009	0.001 - 0.02	0.019
Wealth index	0.09	0.07 - 0.11	<0.001	0.09	0.07 - 0.11	<0.001	0.09	0.07 - 0.11	<0.001
Random effects									
Variances of random intercept	0.01	0.001 - 0.04		0.01	0.001 - 0.04		0.01	0.001 - 0.04	
Variance of random slope	0.002	0.001 - 0.002		0.002	0.001 - 0.002		0.002	0.001 - 0.002	
Variance of residuals	0.59	0.57 - 0.61		0.587	0.57 - 0.61		0.59	0.57 - 0.61	
Log-likelihood		-12075.77			-12080.43			-12089.34	
LR test			<0.001			<0.001			<0.001

^a Model 1 presents linear mixed-effects model of the relationship between adherence to MDD or MMF and other determinants with WHZ.

^b Model 2 presents linear mixed-effects model of the relationship between adherence to MAD and other determinants with WHZ.

^c Model 3 presents linear mixed-effects model of the relationship between adherence to ADF and other determinants with WHZ.

MDD= minimum dietary diversity, MMF= minimum meal frequency; MAD=minimum acceptable diet; and ADF=age-appropriate daily feeding.

Supplementary Table S3: The relationship of adherence to age-appropriate feeding practices and other determinants with child concurrence wasting and stunting (WaSt).

WaSt									
	Model 1 ^a			Model 2 ^b			Model 3 ^c		
Full adjusted model	Total number of adherence to MDD or MMF (n=1,995; observations=9,231)			Total number of adherence to MAD (n=1,995; observations=9,231)			Total number of adherence to ADF (n=1,995; observations=9,231)		
Fixed effect	AOR	95CI %	p-Value	AOR	95CI %	p-Value	AOR	95CI %	p-Value
Age (in month)	1.40	1.30 - 1.50	<0.001	1.40	1.30 - 1.50	<0.001	1.39	1.29 - 1.50	<0.001
Age ² (in months)	0.992	0.991 - 0.995	<0.001	0.993	0.991 - 0.994	<0.001	0.992	0.990 - .994	<0.001
Total number of adherence to MDD (Never)									
1 or 2 times	0.71	0.37 - 1.34	0.286						
3 or always	0.74	0.26 - 2.05	0.558						
Total number of adherence to MMF(Never)									
1 or 2 times	0.54	0.14 - 2.06	0.370						
3 or always	0.97	0.25 - 3.73	0.969						
Total number of adherence to MAD (Never)									
1 or 2 times				0.85	0.47 - 1.56	0.619			
3 or always				1.23	0.43 - 3.50	0.703			
Total number of adherence to ADF(Never)									
1 or 2 times							1.27	0.68 - 2.37	0.451
3 or always							0.45	0.09 - 2.30	0.338
Maternal education (years)	0.83	0.76 - 0.90	<0.001	0.82	0.76 - 0.90	<0.001	0.83	0.76 - 0.90	<0.001
Wealth index	0.59	0.46 - 0.74	<0.001	0.59	0.46 - 0.74	<0.001	0.58	0.46 - 0.73	<0.001
Random effect									
Variances of random intercept	10.20	7.55 - 13.78		10.26	7.59 - 13.87		10.17	7.53 - 13.74	
Log-likelihood		-1192.66			-1194.69			-1193.81	
LR test			<0.001			<0.001			<0.001

^a Model 1 presents mixed-effects logistic regression of the relationship between adherence to MDD or MMF and other determinants with WaSt.

^b Model 2 presents mixed-effects logistic regression of the relationship between adherence to MAD and other determinants with WaSt.

^c Model 3 presents mixed-effects logistic regression of the relationship between adherence to ADF and other determinants with WaSt.

MDD= minimum dietary diversity, MMF= minimum meal frequency, MAD=minimum acceptable diet; ADF=age-appropriate daily feeding.