

Breastfeeding Structural

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1 Participant Characteristics

1.1 By Sex

	Full Sample	Boys	Girls
Total(<i>N</i>)	149	73	76
Age (<i>Mean [range], yrs</i>)	9.0 [7.1 - 12.0]	9.0 [7.1 - 12.0]	9.0 [7.1 - 11.8]
BMI (<i>Mean [range]</i>)	17.8 [13.8 - 31.9]	17.7 [13.9 - 31.9]	17.9 [13.8 - 25.9]
Percent of CDC 85th %tile (<i>Mean [range]</i>)	94.0 [70.1 - 168.8]	94.7 [72.7 - 168.8]	93.4 [70.1 - 131.1]
BMI %tile (<i>Mean [range]</i>)	59.9 [5 - 99]	59.3 [5 - 99]	60.5 [6.1 - 98]
Obesity Status(<i>N</i>)			
Obese	41	9	11
Not Obese	129	64	65
Weight Class(<i>N</i>)			
Obese	20	9	11
Overweight	21	10	11
Healthy Weight	108	54	54
Ethnicity(<i>N</i>)			
Hispanic/Latino	6	3	3
Not H/L	120	59	61
NA	1	1	0
Race(<i>N</i>)			
Black/AA	7	5	2
White	136	64	72
Other/Mixed	6	4	2
NA	0	0	0
SES(<i>N</i>)			
>\$100,000	49	26	23
\$50,000-\$100,000	69	30	39
<\$50,000	28	16	12
NA	0	0	0
Maternal Education(<i>N</i>)			
> BA	50	22	28
BA	54	30	24
Associates/Technical	18	7	11
HighSchool	15	8	7
Other/NA	0	0	0
< HighSchoolDiploma/GED	0	0	0
Paternal Education(<i>N</i>)			
> BA	57	28	29
BA	38	22	16
Associates/Technical	15	5	10
HighSchool	23	9	14
Other/NA	1	1	0
< HighSchoolDiploma/GED	1	1	0
BreastFed 6mo(<i>N</i>)			
> 6months	92	45	47
< 6months	57	28	29
BreastFed 3cat(<i>N</i>)			
> 6months	54	24	30
4 – 6months	55	29	26
0 – 3months	40	20	20

1.2 By Breastfeeding Categories

	Full Sample	0-3mo	4-6 mo	>6mo
Total(<i>N</i>)	149	40	55	54
Age (<i>Mean [range], yrs</i>)	9.0 [7.1 - 12]	9.0 [7.1 - 10.9]	9.2 [7.2 - 12.0]	8.8 [7.1 - 11.8]
BMI (<i>Mean [range]</i>)	17.8 [13.8 - 31.9]	18.5 [14.4 - 25.9]	17.4 [14.1 - 27.7]	17.6 [13.8 - 31.9]
Percent Overweight (<i>Mean [range]</i>)	94.0 [70.1 - 168.8]	97.9 [74.4 - 131.1]	91.3 [70.1 - 143.9]	93.8 [72.7 - 168.8]
BMI %tile (<i>Mean [range]</i>)	59.9 [5 - 99]	65.1 [13.8 - 98.0]	54.9 [6.1 - 99.0]	61.2 [5 - 99]
Sex(<i>N</i>)				
Girls	76	20	26	30
Boys	73	20	29	24
Obesity Status(<i>N</i>)				
Obese	41	16	10	15
Not Obese	108	24	45	39
Weight Class(<i>N</i>)				
Obese	20	10	5	5
Overweight	21	6	5	10
Healthy Weight	108	24	45	39
Ethnicity(<i>N</i>)				
Hispanic/Latino	6	2	2	2
Not H/L	120	30	50	40
NA	1	1	0	0
Race(<i>N</i>)				
Black/AA	7	2	1	4
White	136	35	53	48
Other/Mixed	6	3	1	2
NA	0	0	0	0
SES(<i>N</i>)				
>\$100,000	49	10	22	17
\$50,000-\$100,000	69	16	22	31
<\$50,000	28	12	10	6
NA	0	0	0	0
Maternal Education(<i>N</i>)				
> BA	50	13	17	20
BA	54	15	21	18
Associates/Technical	18	6	5	7
HighSchool	15	3	6	6
< HighSchoolDiploma/GED	0	0	0	0
NA	0	0	0	0
Paternal Education(<i>N</i>)				
> BA	57	9	29	19
BA	38	11	10	17
Associates/Technical	15	5	3	7
HighSchool	23	9	6	8
< HighSchoolDiploma/GED	1	1	0	0
NA	1	0	0	1

Table 1: Correlations between Hippocampus and participant characteristics; * $p \leq 0.05$

	cAge_yr	cdc_p85th	cebq_SR	AverageRating	TIV	IQR
cAge_yr						
cdc_p85th	0.13					
cebq_SR	-0.06	-0.21*				
AverageRating	-0.29*	0.01	0.06			
TIV	0.07	0.06	-0.01	0.11		
IQR	-0.1	-0.03	-0.07	0.52*	-0.01	
lEnt_59	0.02	0	-0.02	0.13	0.27*	0.18*
lHip_21	0.04	0.21*	0.05	-0.16	0.16	-0.08
lParHipGy_107	-0.03	0.02	-0.06	0.19*	0.58*	0.11
rEnt_60	-0.04	-0.02	-0.1	0.04	0.29*	-0.01
rHip_22	0.04	0.11	-0.05	-0.01	0.22*	-0.16
rParHipGy_108	-0.08	0.01	-0.03	0.15	0.47*	0.06

2 Medial Temporal Lobe Volumes

2.1 Correlation Matrix

Table 2: Fit Statistics for Model: BF -> SR (L Hipp Med) -> p85th BMI

	x
chisq	1.495
df	1.000
pvalue	0.221
baseline.chisq	71.362
baseline.df	36.000
baseline.pvalue	0.000
cfi	0.986
tli	0.496
logl	174.996
bic2	-284.924
rmsea	0.061
rmsea.ci.lower	0.000
rmsea.ci.upper	0.251
rmsea.pvalue	0.294
srmr	0.008

2.2 Path Models: Breastfeeding -> Satiety Responsiveness (mediated Hip) -> %BMI

2.2.1 Left Hippocampus

Table 3: Parameters for Model: BF -> SR (L Hipp Med) -> p85th BMI

lhs	op	rhs	est	se	z	pvalue
cebq_SR	~	mEducation_dummy	-0.037	0.057	-0.653	0.514
cebq_SR	~	income_dummy	0.242	0.084	2.868	0.004
cebq_SR	~	BreastFed_3cat_dummy	-0.003	0.066	-0.051	0.960
cebq_SR	~	TIV	-0.001	0.001	-1.188	0.235
cebq_SR	~	IQR	-0.216	0.450	-0.480	0.631
cebq_SR	~	Study_Branddummy	0.149	0.182	0.819	0.413
cebq_SR	~	Study_ccebdummy	-0.082	0.173	-0.472	0.637
cebq_SR	~	Study_DMKdummy	-0.037	0.172	-0.215	0.830
cebq_SR	~	Study_FBSdummy	0.006	0.159	0.036	0.971
cebq_SR	~	cAge_yr	-0.029	0.045	-0.649	0.517
cebq_SR	~	sex	-0.092	0.114	-0.805	0.421
cebq_SR	~	lHip_21	1.561	1.004	1.555	0.120
lHip_21	~	TIV	0.000	0.000	2.365	0.018
lHip_21	~	IQR	0.058	0.039	1.497	0.134
lHip_21	~	Study_Branddummy	-0.004	0.016	-0.230	0.818
lHip_21	~	Study_ccebdummy	0.024	0.015	1.639	0.101
lHip_21	~	Study_DMKdummy	0.016	0.015	1.042	0.297
lHip_21	~	Study_FBSdummy	-0.002	0.014	-0.175	0.861
lHip_21	~	cAge_yr	0.001	0.004	0.250	0.803
lHip_21	~	sex	-0.014	0.010	-1.384	0.166
lHip_21	~	mEducation_dummy	0.003	0.005	0.558	0.577
lHip_21	~	income_dummy	-0.002	0.007	-0.285	0.776
lHip_21	~	BreastFed_3cat_dummy	-0.002	0.006	-0.276	0.783
cdc_p85th	~	mEducation_dummy	-0.040	0.013	-3.000	0.003
cdc_p85th	~	income_dummy	0.009	0.020	0.447	0.655
cdc_p85th	~	cebq_SR	-0.046	0.020	-2.239	0.025
cdc_p85th	~	TIV	0.000	0.000	0.785	0.433
cdc_p85th	~	IQR	0.042	0.105	0.401	0.689
cdc_p85th	~	Study_Branddummy	0.003	0.042	0.078	0.938
cdc_p85th	~	Study_ccebdummy	0.055	0.041	1.351	0.177
cdc_p85th	~	Study_DMKdummy	0.131	0.040	3.276	0.001
cdc_p85th	~	Study_FBSdummy	-0.012	0.037	-0.329	0.742
cdc_p85th	~	cAge_yr	0.003	0.010	0.309	0.757
cdc_p85th	~	sex	0.014	0.027	0.527	0.598
cdc_p85th	~	lHip_21	0.575	0.237	2.422	0.015

2.2.2 Right Hippocampus

Table 4: Fit Statistics for Model: BF -> SR (R Hipp Med) -> p85th BMI

	x
chisq	1.416
df	1.000
pvalue	0.234
baseline.chisq	54.117
baseline.df	30.000
baseline.pvalue	0.004
cfi	0.983
tli	0.482
logl	165.218
bic2	-272.222
rmsea	0.053
rmsea.ci.lower	0.000
rmsea.ci.upper	0.235
rmsea.pvalue	0.315
srmr	0.010

Table 5: Parameters for Model: BF -> SR (R Hipp Med) -> p85th BMI

lhs	op	rhs	est	se	z	pvalue
cebq_SR	~	mEducation_dummy	-0.037	0.057	-0.653	0.514
cebq_SR	~	income_dummy	0.242	0.084	2.868	0.004
cebq_SR	~	BreastFed_3cat_dummy	-0.003	0.066	-0.051	0.960
cebq_SR	~	TIV	-0.001	0.001	-1.188	0.235
cebq_SR	~	IQR	-0.216	0.450	-0.480	0.631
cebq_SR	~	Study_Branddummy	0.149	0.182	0.819	0.413
cebq_SR	~	Study_ccebdummy	-0.082	0.173	-0.472	0.637
cebq_SR	~	Study_DMKdummy	-0.037	0.172	-0.215	0.830
cebq_SR	~	Study_FBSdummy	0.006	0.159	0.036	0.971
cebq_SR	~	cAge_yr	-0.029	0.045	-0.649	0.517
cebq_SR	~	sex	-0.092	0.114	-0.805	0.421
cebq_SR	~	lHip_21	1.561	1.004	1.555	0.120
lHip_21	~	TIV	0.000	0.000	2.365	0.018
lHip_21	~	IQR	0.058	0.039	1.497	0.134
lHip_21	~	Study_Branddummy	-0.004	0.016	-0.230	0.818
lHip_21	~	Study_ccebdummy	0.024	0.015	1.639	0.101
lHip_21	~	Study_DMKdummy	0.016	0.015	1.042	0.297
lHip_21	~	Study_FBSdummy	-0.002	0.014	-0.175	0.861
lHip_21	~	cAge_yr	0.001	0.004	0.250	0.803
lHip_21	~	sex	-0.014	0.010	-1.384	0.166
lHip_21	~	mEducation_dummy	0.003	0.005	0.558	0.577
lHip_21	~	income_dummy	-0.002	0.007	-0.285	0.776
lHip_21	~	BreastFed_3cat_dummy	-0.002	0.006	-0.276	0.783
cdc_p85th	~	mEducation_dummy	-0.040	0.013	-3.000	0.003
cdc_p85th	~	income_dummy	0.009	0.020	0.447	0.655
cdc_p85th	~	cebq_SR	-0.046	0.020	-2.239	0.025
cdc_p85th	~	TIV	0.000	0.000	0.785	0.433
cdc_p85th	~	IQR	0.042	0.105	0.401	0.689
cdc_p85th	~	Study_Branddummy	0.003	0.042	0.078	0.938
cdc_p85th	~	Study_ccebdummy	0.055	0.041	1.351	0.177
cdc_p85th	~	Study_DMKdummy	0.131	0.040	3.276	0.001
cdc_p85th	~	Study_FBSdummy	-0.012	0.037	-0.329	0.742
cdc_p85th	~	cAge_yr	0.003	0.010	0.309	0.757
cdc_p85th	~	sex	0.014	0.027	0.527	0.598
cdc_p85th	~	lHip_21	0.575	0.237	2.422	0.015