Supplemental Table 1

Descriptive Statistics for Sociodemographics and Main Outcome Variables

Descriptive Statistics for Socioaemographic	Mothers	Partners
Age (years) [^]	$M \pm SD \text{ or } N (\%)$ 30.04 ± 3.49	$M \pm SD \text{ or } N (\%)$ 31.58 ± 4.51
Years of Education (since Grade 1)	17.33 ± 2.79	17.00 ± 3.07
Sex		
Female	203 (100%)	7 (3.4%)
Male	-	196 (96.6%)
Sexual Orientation		
Heterosexual	182 (89.7%)	194 (95.6%)
Lesbian/Gay	6 (3.0%)	4 (2.0%)
Bisexual	12 (5.9%)	3 (1.5%)
Other*	3 (1.5%)	2 (1.0%)
Relationship Status		
Married/Engaged/Commonlaw	186 (91.6%)	185 (91.1%)
Living with/Dating one partner	17 (8.4%)	17 (8.4%)
Other		1 (0.5%)
Relationship Length (months)	79.66 ± 43.24	79.66 ± 43.24
Country of Residence		
Canada	145 (71.4%)	145 (71.4%)
United States of America	58 (28.6%)	58 (28.6%)
Race/Ethnicity		
Caucasian	160 (78.8%)	164 (80.8%)
Asian American/Asian	19 (9.4%)	10 (4.9%)
Biracial/Multiracial	9 (4.4%)	7 (3.4%)

East Indian	6 (3.0%)	5 (2.5%)
Middle Eastern/Central or South Asian	3 (1.5%)	7 (3.4%)
Other ^{\$}	6 (3.0%)	10 (5.0%)
Employment		
Full-time (inside + outside home)	150 (73.9%)	174 (85.7%)
Part-time (inside + outside home)	35 (17.2%)	23 (11.3%)
Student (full-time + part-time)	17 (8.4%)	24 (11.8%)
Other (unemployed, leave, casual)	20 (10.0%)	8 (4.0%)
Annual Income [#]		
<\$60,000	39 (19.3%)	39 (19.3%)
>\$60,000	163 (80.7%)	163 (80.7%)
Main Outcome Variable	M (Range)	SD
Infant Sleep Quality	8.03 (1-10)	1.95
Mother Sleep	4.34 (1-7)	1.11
Partner Sleep	4.48 (1-7)	1.19
Couples' Sexual Frequency	3.36 (1-6)	1.72
Mother Sexual Desire	5.04 (2-10)	2.00
Partner Sexual Desire	6.77 (2-10)	1.79

Note. ^ Age is based on data from 198 mothers and 195 partners due to missing data on this variable. * Other includes: pansexual, asexual, and between bisexual and lesbian. # Other includes: African American/Black, Aboriginal/Native American/First Nations,

Hispanic/Latino/Latina, Hawaiian/Pacific Islander, Ashkenazi, or not specified. \$ Income is based on data from 202 couples due to missing data from one couple.

Supplemental Table 2

Within- and Between-Dyad Correlations between Main Outcome Variables and Covariates of Interest

	Infant Sleep	Mother Sleep	Partner Sleep	Sexual Frequency	Mother Desire	Partner Desire	Pain During Sex	Breast- feeding	Relation- ship Length	Mother Age	Partner Age
Infant Sleep		.40***	.31***	.09	.12	.12	.12	16**	02	05	12
Mother Sleep	.45***		.30***	.12	.10	.16**	.17*	15**	010	.07	.05
Partner Sleep	.33***	.28***		.27***	.10	.33***	.19***	01	22***	13	16**
Sexual Frequency	.05	.13**	.12**		.53***	.29***	.56***	.03	29***	26***	20***
Mother Desire	.04	.16***	.16***	.42***		.05	.48***	08	13	20***	18**
Partner Desire	.07	.07	.09*	.17***	.18***		.21***	.07	15**	08	16**
Pain During Sex	.07	.05	.001	.10*	03	.04		01	043	15**	21***
Breast- feeding	.07	.03	.003	.10*	001	.04	.98***		.01	.13	01
Relation- ship Length	.02	.01	.003	.02	05	01	.05	.06		-	-
Mother Age	.02	03	.02	04	07	.03	.002	.002	-		-
Partner Age	004	.04	.02	05	09	02	.03	.03	-	-	

Note. Results in the shaded grey section are between-dyad effects (correlations of dyad averaged across all time points); results in the white section are within-dyad effects (repeated measures correlations for each dyad using rmcorrShiny); * = correlation is significant at the .05 level (2-tailed); *** = correlation is significant at the < .001 level; correlations were not calculated between relationship length and age.

Supplemental Table 3

Path Estimates from MLMED Analysis with Parental Sleep between Infant Sleep and Sexual Frequency

Outcome		b	SE	95% CI	df	t	р
Fixed Effects Mother Sleep							
Montel Steep	Within	.27	.02	[.22, .31]	572.16	12.12	<.001
Infant Sleep	Between	.23	.03	[.16, .29]	208.67	6.91	<.001
Partner Sleep	Within	.18	.02	[.14, .22]	549.78	8.03	<.001
Infant Sleep	Between	.20	.04	[.12, .27]	200.53	4.87	<.001
Sexual Frequency	Within	.05	.02	[.005, .09]	507.75	2.18	.030
Mother Sleep	Between	.03	.06	[09, .15]	202.40	0.48	.632
	Within	.03	.02	[01, .08]	504.35	1.51	.132
Partner Sleep	Between	.20	.05	[.09, .30]	198.48	3.66	<.001
	Within	0003	.01	[03, .03]	516.07	-0.02	.981
Infant Sleep	Between	01	.03	[08, .05]	202.61	-0.38	.703

Supplemental Table 4

Covariate Analysis between Infant Sleep, Parental Sleep, and Sexual Frequency with Mother's Pain During Sex

Outcome		b	SE	95% CI	Z	р
	Within	.01	.01	[01, .02]	1.01	.310
Mother Sleep						
Would Steep	Between	003	.01	[03, .02]	-0.25	.801
	Within	.01	.004	[001, .01]	1.64	.101
Partner Sleep	.	0.0	0.4	F 0.4 0.47		0.00
1	Between	.02	.01	[.01, .04]	2.32	.020

Supplemental Table 5

Test of Indirect Pathways with Parental Sleep between Infant Sleep and Sexual Desire

Outcome		b	SE	95% CI	df	t	P
Mother Desire							
Mother Sleep	Within	.28	.07	[.13, .42]	509.72	3.82	<.001
	Between	02	.17	[35, .31]	201.97	-0.13	.896
Partner Sleep	Within	.07	.07	[07, .21]	505.12	1.01	.314
r arther Sieep	Between	.06	.14	[23, .34]	197.15	0.39	.694
Infant Sleep	Within	06	.04	[15, .03]	520.53	-1.38	.168
mant Sleep	Between	.16	.09	[02, .34]	202.43	1.75	.081
Partner Desire							
Mother Sleep	Within	.06	.06	[06, .17]	503.56	0.91	.363
wiother Sieep	Between	.08	.15	[22, .38]	200.35	0.55	.582
Partner Sleep	Within	.12	.06	[004, .23]	499.25	1.90	.058
Partiler Sleep	Between	.58	.13	[.32, .83]	195.42	4.45	.000
Infant Class	Within	.002	.04	[07, .08]	514.19	0.06	.956
Infant Sleep	Between	.01	.08	[16, .17]	200.58	0.08	.940

Supplemental Table 6

Covariate Analysis between Infant Sleep, Parental Sleep, and Sexual Desire with Pain During Sex

Covariate		b	SE	95% CI	Z	p	
Mother Desire	Within	.05	.02	[.02, .09]	2.85	.004	
Mother Sleep	Between	03	.03	[09, .04]	-0.77	.444	
	Within	.01	.01	[01, .04]	1.03	.304	
Partner Sleep	Between	02	.02	[07, .03]	-0.76	.447	
Partner Desire							
	Within	.01	.02	[02, .04]	0.48	.632	
Mother Sleep	Between	.01	.03	[05, .08]	0.34	.733	
	Within	.02	.01	[001, .05]	1.81	.071	
Partner Sleep	Between	.09	.03	[04, .16]	2.90	.004	
Monte Carlo CI Calculation fo Significant Indirect Effects (95 <i>Mother Desire</i>							
Momer Desire	Within			[.03, .11]			
Mother Sleep	Between			[07, .05]			
Partner Desire	Within			[002, .02]			
Partner Sleep	Between			[.05, .19]			

Supplemental Table 7

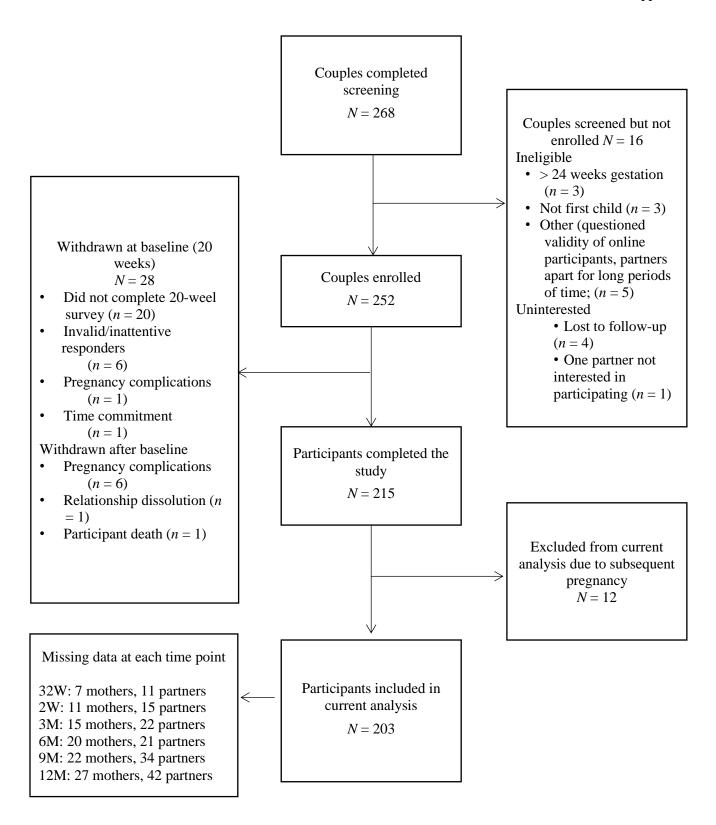
Path Estimates from MLMED Analysis with Mother Data between Infant Sleep, Parental Sleep, and Sexual Desire

Outcome		b	SE	95% CI	t	df	p
Fixed Effects							
Mother Sleep							
	Within	.27	.02	[.22, .31]	12.12	572.16	< .001
Infant Sleep	Between	.22	.03	[.16, .29]	6.91	208.67	< .001
Mother Desire							
	Within	.28	.07	[.13, .42]	3.81	508.38	<.001
Mother Sleep	Between	02	.17	[35, .31]	-0.10	202.13	.917
	Within	.07	.07	[07, .21]	1.00	503.73	.318
Partner Sleep	Between	.05	.14	[23, .34]	0.38	197.29	.706
	Within	06	.04	[15, .03]	-1.38	519.19	.169
Infant Sleep	Between	.16	.09	[02, .34]	1.74	202.59	.084

Supplemental Table 8

Path Estimates from MLMED Analysis with Partner Data between Infant Sleep, Parental Sleep, and Sexual Desire

Outcome		b	SE	95% CI	t	df	p
Fixed Effects							
Partner Sleep		40			0.00	- 40 - 0	004
	Within	.18	.02	[.14, .22]	8.03	549.78	< .001
Infant Sleep	Between	.20	.04	[.12, .27]	4.87	200.53	<.001
Partner Desire							
	Within	.06	.06	[06, .18]	0.92	504.86	.360
Mother Sleep							
Wiother Sieep	Between	.09	.15	[21, .38]	0.57	200.48	.572
	Within	.11	.06	[005, .23]	1.89	500.55	.059
Doute on Cloon				[,]			
Partner Sleep	Between	.58	.13	[.32, .83]	4.44	195.53	< .001
	Within	.001	.04	[07, .07]	0.03	515.30	.973
Information				, ,			
Infant Sleep	Between	.01	.08	[15, .17]	0.09	200.71	.927



Supplemental Figure 1. Flow chart of participant recruitment and enrollment.