

Table 1

Sociodemographic and Behavioral Characteristics of Mothers and Infants (N = 50)

Characteristics	Value	Range
Baseline OT, pg/ml ^a		
Mean \pm SD	1.75 \pm 0.89	0.50 to 4.80
OT response, pg/ml ^b		
Mean \pm SD	-0.06 \pm 0.93	-3.70 to 3.15
Maternal age, years		
Mean \pm SD	28.0 \pm 4.6	19 to 41
Infant age, months		
Mean \pm SD	6.4 \pm 1.7	4 to 11
Infant sex, <i>n</i> (%)		
Male	21 (42.0)	
Female	29 (58.0)	
Marital status, <i>n</i> (%)		
Married	38 (76.0)	
Not married	12 (24.0)	
Maternal race, <i>n</i> (%)		
White	31 (62.0)	
Non-White	19 (38.0)	
Maternal education, <i>n</i> (%)		
College incomplete	11 (22.0)	
College/university degree	22 (44.0)	
Postgraduate degree	16 (32.0)	
Socioeconomic status ^c		
Mean \pm SD	44.5 \pm 15.4	15 to 66
Maternal IQ ^d		
Mean \pm SD	110.2 \pm 8.4	81 to 120
Maternal depression (BDI) ^e		
Mean \pm SD	5.3 \pm 4.8	0 to 19
Maternal personality pathology (PDQ) ^f		
Mean \pm SD	19.4 \pm 11.5	3 to 50
Maternal parenting stress (PSI)		
Child Domain, Mean \pm SD	91.3 \pm 14.1	64 to 121
Parent Domain, Mean \pm SD	112.8 \pm 23.6	66 to 157
Total Stress, Mean \pm SD ^g	201.5 \pm 34.5	109 to 264
Breastfeeding status ^h , <i>n</i> (%)		
Not breastfeeding	13 (26.0)	
Still breastfeeding	28 (56.0)	
Daycare status ⁱ , <i>n</i> (%)		
Less than 20 hours per week	20 (40.0)	
More than 20 hours per week	19 (38.0)	

Note. BDI = Beck Depression Inventory-II; PDQ = Personality Disorder Questionnaire-4+; PSI = Parenting Stress Index;

^a Plasma oxytocin concentration measured following a 20-minute period of mother-infant separation (OT 1). ^b Change in plasma oxytocin concentration between baseline (OT 1) and post mother-infant interaction (mean of OT 2 and OT 3).

^c Socioeconomic status was estimated using Hollingshead (1975)'s Four-Factor Index of Social Status, and represents joint information with partner, when applicable. ^d Maternal Full Scale IQ was estimated from the Wechsler Test of Adult Reading (WTAR). ^e BDI-II score of ≤ 9 indicate minimal depression. ^f PDQ-4+ total score of ≥ 50 is highly suggestive of DSM-IV personality disorder. ^g PSI Total Stress Score of < 260 is considered normal range. ^h Data were missing for 9 participants. ⁱ Hours per week that someone other than the mother looked after the infant. Data were missing for 11 participants.

Table 2

Maternal Gaze Toward and Away from Infant During Modified Still-Face Procedure (MSFP) and Results of Mixed-Effects Regression Analysis (N = 50)

	Maternal gaze during modified still-face procedure ^a						Mixed-effects models of change over phase			
	Phase 1		Phase 3		Total ^b		Wald χ^2 ^c (<i>df</i> = 3)	OTResp effect ^d (95% CI)	Phase effect ^d (95% CI)	OTResp x Phase ^d (95% CI)
	Mean	SD	Mean	SD	Mean	SD				
Gaze toward infant (duration)	0.993	0.018	0.984	0.043	0.988	0.028	13.52**	0.003* (0.0002 to 0.005)	-0.005* (-0.009 to -0.0001)	0.006* (0.001 to 0.011)
Gaze shift away from infant (frequency)	0.012	0.009	0.018	0.024	0.015	0.015	16.14**	-0.065* (-0.126 to -0.004)	0.092** (0.035 to 0.150)	-0.036 (-0.098 to 0.026)

^a Numbers shown are duration and frequency values ($M \pm SD$) adjusted for the total length of time for which codable data were available in each respective phase of the MSFP. Untransformed values are reported here for illustrative purposes, while statistical tests were conducted using log-transformed variables. ^b Total values represent data collapsed over the phases 1 and 3 of the MSFP. ^c Wald χ^2 values are those obtained for the best-fitting mixed-effects models for the respective outcome variables, including a subject-level random intercept and a random coefficient for phase. ^d Coefficients shown are beta weights (i.e., slopes) for the main and interaction effects of OTResp and phase.

* $p < .05$, ** $p < .01$.