

DOCUMENT RESUME

ED 430 675

PS 027 579

AUTHOR Weissmann, Lenore; Kromelow, Susan; Harding, Carol Gibb; Mroz, Cheryl; Lynn, Laura; Noll, Lisa  
TITLE Interactivity, Attachment, and Perinatal Vulnerability: Complexities of Motherhood in the Nineties.  
PUB DATE 1999-04-00  
NOTE 16p.; Paper presented at the Biennial Meeting of the Society for Research in Child Development (Albuquerque, NM, April 15-18, 1999).  
PUB TYPE Reports - Research (143) -- Speeches/Meeting Papers (150)  
EDRS PRICE MF01/PC01 Plus Postage.  
DESCRIPTORS Affective Behavior; At Risk Persons; \*Attachment Behavior; Depression (Psychology); Emotional Development; Emotional Response; Females; \*Infants; \*Mothers; \*Parent Child Relationship; Parents; \*Perinatal Influences; Personality  
IDENTIFIERS First Time Mothers

ABSTRACT

This study explored the role of perinatal vulnerability (PV) in mothers and infants in relationship to the development of interactivity and attachment, and the relationship between interactivity and attachment. Participating were a low-risk sample of 74 middle-class mother/first-born infant dyads who had participated as volunteers in a combined parent-support program and research project over seven years. Infants ranged in age from 3 weeks to 9 months at time of entry, with mothers' age ranging from 26 to 43 years. Within the context of the ongoing program, the following assessments were conducted: (1) interactivity, through ratings of mother-infant videotaped play; (2) quality of attachment; (3) perinatal vulnerability, through structured clinical interviews with mothers; and (4) infant temperament. Findings indicated that interactivity and attachment were significantly correlated for the entire sample and the PV group. Although postnatal maternal illness and prenatal vulnerabilities tended to lower attachment for the group as a whole, those dyads showing higher levels of interactivity had higher levels of attachment. Maternal depression symptoms following birth were reported by 27 percent of the subjects; self-report of such symptoms during the first 6 months was correlated to observations at 14 months through the depression variables of the interactivity scale. Self-reported depression was negatively related to interactivity and attachment, and was related positively to previous pregnancy loss, fertility problems, and C-section delivery. Mothers reporting perinatal depression saw their infants as unusually fussy, difficult, demanding, unadaptable, persistent, and unsociable at 14 months. (Six tables detail findings.) (KB)

\*\*\*\*\*  
\* Reproductions supplied by EDRS are the best that can be made \*  
\* from the original document. \*  
\*\*\*\*\*

ED 430 675

U.S. DEPARTMENT OF EDUCATION  
Office of Educational Research and Improvement  
EDUCATIONAL RESOURCES INFORMATION  
CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it.

Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

## **INTERAFFECTIVITY, ATTACHMENT, AND PERINATAL VULNERABILITY: COMPLEXITIES OF MOTHERHOOD IN THE NINETIES**

**Lenore Weissmann, Ph.D., Susan Kromelow, Ph.D., Carol Gibb Harding, Ph.D.,  
Cheryl Mroz, Ph.D., Laura Lynn, Ph.D., and Lisa Noll, M.A.**

**Family Wellness Project  
Loyola University Chicago**

**Presented at  
The Biennial Meeting of the Society for Research in Child Development  
April 15-18, 1999, Albuquerque, NM**

PERMISSION TO REPRODUCE AND  
DISSEMINATE THIS MATERIAL HAS  
BEEN GRANTED BY

Lenore  
Weissmann

TO THE EDUCATIONAL RESOURCES  
INFORMATION CENTER (ERIC)

Please direct correspondence to:  
**Lenore Weissmann, Ph.D., Family Wellness Project,  
Loyola University Chicago, 1041 Ridge Road, Wilmette, IL 60091  
847-853-3089; FAX: 847-853-3375; email: lweissm@luc.edu**

1

6  
7  
5  
7  
9  
0  
2  
7  
5  
7  
9



# Interaffectivity, Attachment and Perinatal Vulnerabilities in Mothers and Infants: Complexities of Motherhood in the Nineties

Lenore Weissmann, Susan Kromelow, Carol Gibb Harding,  
Cheryl Mroz, Laura Lynn and Lisa Noll

Family Wellness Project

Loyola University Chicago

## INTRODUCTION

Within a multifaceted project exploring a variety of developmental issues longitudinally, a wide range of data is being collected, including mother-child interaction data investigating the development of attachment, interaffectivity and communication, as well as data from clinical interviews, Parental Stress Inventory and Bates child temperament scales. These data continue to provide a framework for investigating developmental pathways in a complex manner; the construct of emotional engagement has emerged as a unifying construct (Weissmann, et al, 1998, 1996; Harding, et al, 1997). Interaffectivity, indicating a sense of emotional intimacy, connectedness or "being with" and the ability to share on a feeling level (Weissmann, 1987), conceptualized as a result of affect attunement (Stern, 1985), has been shown to be related to attachment, a strong affectional tie between mother and infant.

This study continues to explore the role of perinatal vulnerability (PV) in a low-risk sample in relationship to the development of interaffectivity and attachment, as well as the relationship between interaffectivity and attachment (Kromelow, et al, 1997).

## METHOD

Subjects included 74 middle-class mother/first-born infant dyads who have participated as volunteers in a combined parent-support program/research project over a period of 7 years. Infants (53% boys and 47% girls) ranged in age from 3 weeks to 9 months at time of entry into the project's parent-support program. Mothers ranged in age from 26 to 43 years, with a mean age of 33; fathers ranged in age from 25 to 50, with a mean of 34. (See Table 1.)

Participation in the parent support/education group was limited to first time mothers with babies under one year of age, who responded to notices appearing in suburban newspapers, parenting periodicals, and flyers posted in the community. An individual session at the conclusion of the five-week group included video taping of the mother and infant at play, playback of the video with feedback, and a structured clinical interview. The support and trust engendered through the group and individual sessions contributed to the high rate of return of subjects for additional data gathering, and contributes to the ecological validity of the study.

With parental consent, the following assessments were conducted within the context of the on-going parent-support program:

**Interaffectivity** represents a sense of emotional intimacy, connectedness and "being with" experienced between mother and infant and the experience of sharing on a feeling level, (Weissmann, 1987); it is conceptualized as a result of affect attunement (Stern, 1985), which develops between the ages of 9 to 12 months, as the child develops the realization that feelings can be shared. It is an interactional, relational construct residing in neither the mother nor the child, but in the dynamic "space between".

Interaffectivity has been assessed at an average age of 14 months through the use of a videotaped play paradigm, which is analyzed using the Mother-Infant Interaffectivity Scale, (Weissmann, 1987), an adaptation of the Parent-Child Early Relational Assessment (Clark, et al, 1980, 1985). The Interaffectivity Scale consists of 20 variables, (rated on a 5 point Likert-like scale) which are closely related theoretically and statistically. The range of possible scores is from 20 to 100. The mean for this group is 76.5. (See Table 2.)

**Quality of attachment**, assessed at 14 months, has been measured by a laboratory procedure identical to Ainsworth's Strange Situation. To quantitatively reflect the range and variation of the quality of attachment, a continuum of felt security was conceptualized. A 7-point hierarchical continuum integrating original Ainsworth et al subcategories with additional borderline subcategories was created. (Kromelow, et al, 1997) The mean for this group is 4.7. (See Table 2.)

**Perinatal Vulnerability** was assessed as present through structured clinical interviews with mothers. Included in the category of perinatal vulnerability are such maternal and infant issues as infertility, previous pregnancy loss, labor problems including C-section, preterm birth, maternal illness, maternal depression, and infant concerns. 86% of the 74 subjects reported one or more of these issues.

**Temperament** (Bates, 1979) was assessed at 14 months, at the time of data gathering for attachment and interaffectivity.

## RESULTS AND DISCUSSION

The data was analyzed through Pearson Correlation, Multiple Regression, and because variables tended to be inter-correlated, t-tests, cross tabs and partial correlations were run, in order to support the associations found through correlational analysis.

Results of the effects of perinatal vulnerabilities on attachment, interaffectivity and each other were more complex than anticipated. (See Table 3: Correlation Coefficients for Attachment, Interaffectivity and Vulnerabilities.)

### Relationships with attachment and interaffectivity

1. **Interaffectivity and attachment** were found to be significantly correlated both for the entire sample and for the PV group. Both optimal interaffectivity and optimal attachment represent the existence of a strong dyadic relationship, and the strong association may indicate a tie which includes a sense of intersubjective relatedness, and dyadic reciprocity. The use of

a continuum representing felt security permitted an analysis of attachment with a complex construct, and supports the continued use of such a continuum.

2. **Prenatal maternal vulnerabilities** (a variable which includes mothers with infertility issues and/or previous pregnancy loss) and **postnatal maternal illness** were both negatively related to attachment, and not to interaffectivity. Multiple regressions show that this relationship was mediated by interaffectivity. (See Tables 4 and 5.) This indicates that for those mothers with these vulnerabilities, attachment tended to be generally lower, except for those mothers where interaffectivity was high. Although post-natal maternal illness and prenatal vulnerabilities tended to lower attachment for the group as a whole, those dyads showing higher levels of interaffectivity had higher levels of attachment.

#### Relationships with self-reported maternal depression

3.. Symptoms of maternal depression following birth were self-reported by 27% of the subjects; the self report during the first 6 months was **correlated to observations** made at 14 months through the maternal, child and dyadic "depression" variables of the interaffectivity Scale. (See Table 3.) The relationship of the self-reported depression following birth with observed depression at 14 months, in mother, child and dyad, speaks both to the validity of early self-report, and to the long lasting effect of depression reported following childbirth.

4. Self-reported depression shows a negative relationship with both **interaffectivity and attachment**.

5. Self-reported depression also shows significant relationships with several other perinatal variables, including a positive correlation with **previous pregnancy loss and/or fertility problems**, and a positive correlation with **C-section**.

#### Relationships with temperament.

6 Self reported maternal depression was significantly related to **infant temperament**, as measured on the Bates Temperament Scale at an average age of 14 months, showing that mothers reporting depression around the time of birth saw their babies as unusually fussy, difficult, demanding, unadaptable, persistent and unsociable at 14 months. (See Table 6.)

### CONCLUSIONS and IMPLICATIONS

These findings highlight the prevalence of perinatal vulnerabilities among middle-class families, and the complex relationships among them. Particularly noteworthy are the long range effects of self-reported depression: its relationship to previous pregnancy loss and or/fertility problems, to C-section, to perceptions of child temperament, and to the development of interaffectivity and attachment. The persistence of depressive symptoms is supported by the relationship with observed depression in the mother, child and dyad as rated in the interaffectivity scale at 14 months..

This group of middle to upper-middle class mothers is by most standards a low-risk

group. However, by choosing issues which could be defined as "vulnerabilities" rather than risks, 65 of the 75 dyads have been found to experience one or more such issues. The large portion of the sample experiencing vulnerabilities may be explained in several ways. Any issue that seemed removed from the norm, or expected result, was included, regardless of severity, because many of the issues, such as infertility, are recognized as being problematic, physically and/or emotionally. In addition, this self-selected sample chose to join a group housed in a University setting, where they might expect to encounter experts, and may have been drawn to the group for that reason.

And perhaps, becoming a parent in the 90's may itself promote vulnerability, most importantly through the fact of delayed child bearing and the issues of infertility, anxiety and loss of identity that accompany it. In terms of infertility issues, for example, this group, 19% of whom have experienced infertility, exceeds the 1998 reported national figure of 14%. In addition, the number seems to be increasing every year; between 1998 and 1999 our subject pool increased by 22; those experiencing fertility problems were 5 out of the 6 most recent births, and 4 of those 5 had experienced previous pregnancy loss. Recent governmental reports from the Centers for Disease Control and Prevention have also indicated an increase in fertility-enhanced births nationwide.

Implications for interventions include the notion that perhaps becoming a parent in the 90's may itself promote vulnerability, most importantly through the fact of delayed child-bearing and the issues of infertility, anxiety and loss of identity that accompany it. Older mothers who have been pursuing careers prior to childbirth have high expectations for performance, and although they seek out support in various ways, they may have greater needs than have been acknowledged, by themselves or by society.

Follow-up and support for older mothers suffering infertility and/or previous pregnancy loss should be built into the process. Support for women undergoing C-section is particularly important. The finding related to the effects of C-sections indicates a need for intervention very early. Acknowledging the emotional as well as physical effects of a C-section on a group of well educated, sophisticated mothers, and targeting this group for support services around the time of birth could have important effects on the infant and the relationship.

Further exploration of these complex relationships is underway, both statistically, with a structural path model, and qualitatively, through case study analysis. It is anticipated that the need for additional support for today's families will continue to be seen as important.

## REFERENCES

Clark, R., Musick, J.S., Stott, F.M. & Klehr, K.B. (1980, 1985), The parent-child early relational assessment. University of Wisconsin, Department of Psychiatry.

Harding, C.G., Weissmann, L., Kromelow, S. & Stilson, S.R. (1997). Shared minds: How mothers and infants co-construct early patterns of choice within intentional communication partnerships. Infant Mental Health Journal, 18, 24-39.

Kromelow, S., Weissmann, L., Harding, C., & Brown, K. (1997). Attachment, interaffectivity and perinatal vulnerability: antecedents, complexity and development. Presented at the Conference of the American Psychological Association, Chicago, IL.

Stern, D. (1985). The interpersonal world of the infant: A view from psychoanalysis and developmental psychology. New York: Basic Books.

Weissmann, L.R. (1987). Interaffectivity in the mother-infant relationship. Unpublished Doctoral Dissertation, Loyola University Chicago.

Weissmann, L., Harding, C., Kromelow, S., Arand, J. & Lynn, L. (1998). A structural model for longitudinal observations of mothers' and infant's emotional engagement: The common thread linking the sharable worlds of mother and infant. Presented at the 106th Annual Convention of the American Psychological Association, San Francisco, CA.

# Table 1. Demographics

## Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MOMAGE	70	26.00	43.00	32.8714	3.9367
DADAGE	69	25.00	50.00	34.4348	4.7904
MOMED	70	12.00	20.00	16.7000	1.3551
DADED	69	12.00	22.00	17.2754	1.7977
Valid N (listwise)	68				

## SEX

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid male	40	53.3	53.3	53.3
female	35	46.7	46.7	100.0
Total	75	100.0	100.0	

# Table 2. Descriptives

\* = variables with values ranging from 0-1

	N	Minimum	Maximum	Mean	Std. Deviation
interatt	74	45.00	100.00	76.4865	11.5927
attach	74	1.00	7.00	4.7027	2.1180
pre maternal vul*	74	.00	1.00	.3243	.4713
c section*	74	.00	1.00	.2568	.4398
maternal ill post*	71	.00	1.00	.1972	.4007
maternal dep (rep)*	75	.00	1.00	.2533	.4378
maternal dep (obs)	72	2.00	5.00	4.2708	.7779
child dep (obs)	72	3.00	5.00	4.1944	.7246
dyad dep (obs)	72	2.00	5.00	3.7639	.8004
Bates F1 fussy-demand	55	15.00	51.00	28.7545	8.6847
Bates F2 undadapt	55	5.00	23.00	13.4000	4.0396
Bates F3 Persistent	55	5.00	20.00	13.4182	3.2185
Bates F4 Unsociable	55	2.50	13.00	6.5727	2.2982
MOMAGE	70	26.00	43.00	32.8714	3.9367
DADAGE	69	25.00	50.00	34.4348	4.7904
MOMED	70	12.00	20.00	16.7000	1.3551
DADED	69	12.00	22.00	17.2754	1.7977
Valid N (listwise)	50				



### Table 3. Correlation Coefficients for Attachment, Interactivity and Vulnerabilities

#### Correlations

	interaff	attach	pre maternal vul	c section	maternal ill post	maternal dep (rep)	maternal dep (obs)	child dep (obs)	dyad dep (obs)
interaff	1.000	.321**	-.087	-.074	.047	-.342**	.657**	.588**	.753**
		.005	.462	.536	.700	.003	.000	.000	.000
		74	73	73	70	74	72	72	72
attach	.321**	1.000	-.282*	.015	-.272*	-.196	.385**	.123	.269*
	.005		.016	.903	.022	.094	.001	.303	.022
	74	74	73	73	70	74	72	72	72
pre maternal vul	-.087	-.282*	1.000	-.011	.204	.188	.029	-.099	-.035
	.462	.016		.928	.088	.110	.812	.410	.774
	73	73	74	74	71	74	71	71	71
c section	-.074	.015	-.011	1.000	.100	.221	-.029	-.194	-.080
	.536	.903	.928		.406	.058	.811	.106	.509
	73	73	74	74	71	74	71	71	71
maternal ill post	.047	-.272*	.204	.100	1.000	.180	-.165	.057	.090
	.700	.022	.088	.406		.133	.178	.647	.467
	70	70	71	71	71	71	68	68	68
maternal dep (rep)	-.342**	-.196	.188	.221	.180	1.000	-.285*	-.245*	-.252*
	.003	.094	.110	.058	.133		.015	.038	.033
	74	74	74	74	71	75	72	72	72
maternal dep (obs)	.657**	.385**	.029	-.029	-.165	-.285*	1.000	.530**	.647**
	.000	.001	.812	.811	.178	.015		.000	.000
	72	72	71	71	68	72	72	72	72
child dep (obs)	.588**	.123	-.099	-.194	.057	-.245*	.530**	1.000	.748**
	.000	.303	.410	.106	.647	.038	.000		.000
	72	72	71	71	68	72	72	72	72
dyad dep (obs)	.753**	.269*	-.035	-.080	.090	-.252*	.647**	.748**	1.000
	.000	.022	.774	.509	.467	.033	.000	.000	.000
	72	72	71	71	68	72	72	72	72

**Table 4. Hierarchical Regression with Attachment, Interactivity, and Prenatal Maternal Vulnerability**

**Descriptive Statistics**

	Mean	Std. Deviation	N
attach	4.5849	2.1271	73
pre maternal vul	.3288	.4730	73
interaff	76.2603	11.5073	73

**Correlations**

	attach	pre maternal vul	interaff
Pearson Correlation	attach 1.000	pre maternal vul -.282	interaff .314
		interaff -.087	interaff 1.000
Sig. (1-tailed)	attach .008	pre maternal vul .231	interaff .003
N	attach 73	pre maternal vul 73	interaff 73

**Variables Entered/Removed<sup>b</sup>**

Model	Variables Entered	Variables Removed	Method
1	pre maternal vul		Enter
2	interaff		Enter

a. All requested variables entered.  
b. Dependent Variable: attach

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.282 <sup>a</sup>	.080	.067	2.0550
2	.405 <sup>b</sup>	.164	.140	1.9726

**Model Summary**

Model	Change Statistics			
	R Square Change	F Change	df1	df2
1	.080	8.140	1	71
2	.084	7.052	1	70

a. Predictors: (Constant), pre maternal vul  
b. Predictors: (Constant), pre maternal vul, interaff

**ANOVA<sup>c</sup>**

Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression 25.930	1	25.930	8.140	.018 <sup>a</sup>
	Residual 299.823	71	4.223		
	Total 325.753	72			
2	Regression 53.372	2	26.686	6.856	.002 <sup>b</sup>
	Residual 272.382	70	3.891		
	Total 325.753	72			

a. Predictors: (Constant), pre maternal vul  
b. Predictors: (Constant), pre maternal vul, interaff  
c. Dependent Variable: attach

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficient	t	Sig.
		B	Std. Error			
1	(Constant)	5.102	.284		17.380	.000
	pre maternal vul	-1.289	.512	-.282	-2.478	.018
2	(Constant)	.957	1.586		.604	.548
	pre maternal vul	-1.154	.493	-.257	-2.340	.022
	interaff	5.386E-02	.020	.291	2.658	.010

a. Dependent Variable: attach

**Excluded Variables<sup>b</sup>**

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics	Tolerance
1	interaff	.291 <sup>a</sup>	2.658	.010	.303	.992

a. Predictors in the Model: (Constant), pre maternal vul  
b. Dependent Variable: attach

Table 5. Hierarchical Regression with Attachment, Interactivity, and Postnatal Maternal Illness

Descriptive Statistics

	Mean	Std. Deviation	N
attach	4.6714	2.1651	70
maternal ill post	.2000	.4029	70
interaff	76.6429	11.5270	70

Correlations

	attach	maternal ill post	interaff
Pearson Correlation	attach	maternal ill post	interaff
	1.000	-.272	.318
	-.272	1.000	.047
	.318	.047	1.000
Sig. (1-tailed)	attach	maternal ill post	interaff
	.011	.011	.004
	.004	.350	.350
N	attach	maternal ill post	interaff
	70	70	70
	70	70	70
	70	70	70

Variables Entered/Removed<sup>a</sup>

Model	Variables Entered	Variables Removed	Method
1	maternal ill post		Enter
2	interaff		Enter

a. All requested variables entered.  
b. Dependent Variable: attach

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.272 <sup>a</sup>	.074	.061	2.0984
2	.428 <sup>b</sup>	.184	.159	1.9853

Model Summary

Model	Change Statistics				
	R Square Change	F Change	df1	df2	Sig. F Change
1	.074	5.454	1	68	.022
2	.109	6.972	1	67	.004

a. Predictors: (Constant), maternal ill post  
b. Predictors: (Constant), maternal ill post, interaff

ANOVA<sup>a</sup>

Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	24.014	1	24.014	.022 <sup>a</sup>
	Residual Total	299.429	68	4.403	
2	Regression	59.375	2	29.687	.001 <sup>b</sup>
	Residual Total	264.068	67	3.941	
		323.443	69	7.532	.001 <sup>b</sup>

a. Predictors: (Constant), maternal ill post  
b. Predictors: (Constant), maternal ill post, interaff  
c. Dependent Variable: attach

Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Std. Error	Standardized Coefficient $\beta$	t	Sig.
		B	Std. Error				
1	(Constant)	4.984	.280			17.703	.000
	maternal ill post	-1.464	.627		-.272	-2.335	.022
2	(Constant)	.216	1.607			.134	.894
	maternal ill post	-1.548	.594		-.288	-2.606	.011
	interaff	6.217E-02	.021		.331	2.995	.004

a. Dependent Variable: attach

Excluded Variables<sup>b</sup>

Model	Beta In	t	Sig.	Partial Correlation	Collinearity Statistics Tolerance
1	interaff	.331	2.995	.004	.344
					.898

a. Predictors in the Model: (Constant), maternal ill post  
b. Dependent Variable: attach

**Table 6. Correlation Coefficients for Infant Temperament Variables and Self-Reported Maternal Depression**

**Correlations**

		maternal dep (rep)	Bates F1 fussy-demand	Bates F2 undadapt	Bates F3 Persistent	Bates F4 Unsociable
maternal dep (rep)	Pearson Correlation	1.000	.362**	.258	.270*	.333*
	Sig. (2-tailed)		.007	.058	.046	.013
	N	75	55	55	55	55
Bates F1 fussy-demand	Pearson Correlation	.362**	1.000	.418**	.409**	.519**
	Sig. (2-tailed)	.007		.001	.002	.000
	N	55	55	55	55	55
Bates F2 undadapt	Pearson Correlation	.258	.418**	1.000	.148	.361**
	Sig. (2-tailed)	.058	.001		.281	.007
	N	55	55	55	55	55
Bates F3 Persistent	Pearson Correlation	.270*	.409**	.148	1.000	.152
	Sig. (2-tailed)	.046	.002	.281		.267
	N	55	55	55	55	55
Bates F4 Unsociable	Pearson Correlation	.333*	.519**	.361**	.152	1.000
	Sig. (2-tailed)	.013	.000	.007	.267	
	N	55	55	55	55	55

\*\* : Correlation is significant at the 0.01 level (2-tailed).

\* : Correlation is significant at the 0.05 level (2-tailed).



**U.S. Department of Education**  
Office of Educational Research and Improvement (OERI)  
National Library of Education (NLE)  
Educational Resources Information Center (ERIC)



# REPRODUCTION RELEASE

(Specific Document)

## I. DOCUMENT IDENTIFICATION:

Title: <i>INTERAFFECTIVITY, ATTACHMENT, AND PERINATAL VULNERABILITY: COMPLEXITIES OF MOTHERHOOD IN THE NINETIES.</i>	
Author(s): <i>LENORE WEISSMANN, SUSAN KROMELDOW, CAROL GIBB HAROING, CHERYL MAOZ, LAURA LYNN + LISA NOLL</i>	
Corporate Source: <i>LOYOLA UNIVERSITY CHICAGO</i>	Publication Date: <i>SRCD, APRIL 1999</i>

## II. REPRODUCTION RELEASE:

In order to disseminate as widely as possible timely and significant materials of interest to the educational community, documents announced in the monthly abstract journal of the ERIC system, *Resources in Education* (RIE), are usually made available to users in microfiche, reproduced paper copy, and electronic media, and sold through the ERIC Document Reproduction Service (EDRS). Credit is given to the source of each document, and, if reproduction release is granted, one of the following notices is affixed to the document.

If permission is granted to reproduce and disseminate the identified document, please CHECK ONE of the following three options and sign at the bottom of the page.

The sample sticker shown below will be affixed to all Level 1 documents

The sample sticker shown below will be affixed to all Level 2A documents

The sample sticker shown below will be affixed to all Level 2B documents

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY

*Sample*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

1

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL IN MICROFICHE, AND IN ELECTRONIC MEDIA FOR ERIC COLLECTION SUBSCRIBERS ONLY, HAS BEEN GRANTED BY

*Sample*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

2A

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL IN MICROFICHE ONLY HAS BEEN GRANTED BY

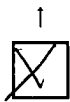
*Sample*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

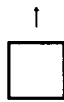
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

2B

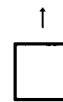
Level 1



Level 2A



Level 2B



Check here for Level 1 release, permitting reproduction and dissemination in microfiche or other ERIC archival media (e.g., electronic) and paper copy.

Check here for Level 2A release, permitting reproduction and dissemination in microfiche and in electronic media for ERIC archival collection subscribers only

Check here for Level 2B release, permitting reproduction and dissemination in microfiche only

Documents will be processed as indicated provided reproduction quality permits.  
If permission to reproduce is granted, but no box is checked, documents will be processed at Level 1.

*I hereby grant to the Educational Resources Information Center (ERIC) nonexclusive permission to reproduce and disseminate this document as indicated above. Reproduction from the ERIC microfiche or electronic media by persons other than ERIC employees and its system contractors requires permission from the copyright holder. Exception is made for non-profit reproduction by libraries and other service agencies to satisfy information needs of educators in response to discrete inquiries.*

Signature: <i>Lenore Weissmann</i>	Printed Name/Position/Title: <i>LENORE WEISSMANN, Ph.D.</i>		
Organization/Address: <i>1041 RIDGE RD. WILMETTE, IL 60091</i>	Telephone: <i>847-853-3089</i>	FAX: <i>847-853-3375</i>	Date: <i>6/1/99</i>
	E-Mail Address: <i>LWEISSM@LUC.EDU</i>		

**SRCD 1999**

(over)

627520275



### III. DOCUMENT AVAILABILITY INFORMATION (FROM NON-ERIC SOURCE):

If permission to reproduce is not granted to ERIC, or, if you wish ERIC to cite the availability of the document from another source, please provide the following information regarding the availability of the document. (ERIC will not announce a document unless it is publicly available, and a dependable source can be specified. Contributors should also be aware that ERIC selection criteria are significantly more stringent for documents that cannot be made available through EDRS.)

Publisher/Distributor:
Address:
Price:

### IV. REFERRAL OF ERIC TO COPYRIGHT/REPRODUCTION RIGHTS HOLDER:

If the right to grant this reproduction release is held by someone other than the addressee, please provide the appropriate name and address:

Name:
Address:

### V. WHERE TO SEND THIS FORM:

Send this form to the following ERIC Clearinghouse:	Karen E. Smith, Acquisitions Coordinator ERIC/EECE Children's Research Center University of Illinois 51 Gerty Dr. Champaign, Illinois, U.S.A. 61820-7469
---	---

However, if solicited by the ERIC Facility, or if making an unsolicited contribution to ERIC, return this form (and the document being contributed) to:

**ERIC Processing and Reference Facility**  
1100 West Street, 2<sup>nd</sup> Floor  
Laurel, Maryland 20707-3598

Telephone: 301-497-4080

Toll Free: 800-799-3742

FAX: 301-953-0263

e-mail: [ericfac@inet.ed.gov](mailto:ericfac@inet.ed.gov)

WWW: <http://ericfac.piccard.csc.com>

EFF-088 (Rev. 9/97)