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Tara Morley University of Western Ontario, tmorley@uwo.ca

Greg Moran University of Western Ontario, gmoran2@uwo.ca

David Pederson University of Western Ontario, pederson@uwo.ca

Heidi Bailey University of Guelph

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Exploring the Development of Attachment in Infants of Adult and Adolescent Mothers

Tara Morley, MSc.

Greg Moran, PhD.

David Pederson, PhD.

University of Western Ontario, London, Ontario

Heidi Bailey, PhD.

University of Guelph, Guelph, Ontario

Introduction

- Maternal sensitivity is an important factor in the development of Secure attachment relationships (Ainsworth et al., 1978; De Wolff & van IJzendoorn, 1997; Juffer et al., 2007)
- Early research on the origins of attachment relationships was conducted using middle-class samples (Ainsworth et al., 1978)
- More recent work has explored the antecedents and developmental consequences of attachment relationships in high-risk groups (Bailey et al., 2007; Carlson, 1998; van IJzendoorn et al., 1999)
- One high-risk group that has received recent attention in attachment research is adolescent mothers (Cairns, Cairns, Xie, Leung, & Hearne, 1998; Camp, 1995)

Introduction: Adolescent Motherhood

- Adolescent mothers have been identified as a high-risk group for various reasons:
 - Openographic Factors:
 - **Education** (Coley & Chase-Lansdale, 1998; Corcoran, 1998; Tarabulsy et al., in press)
 - **Income** (Cairns, Cairns, Xie, Leung, & Hearne, 1998; Jaffee et al., 2001)
 - Social Supports:
 - ➤ Partner Involvement (Jaffee et al., 2003; Tarabulsy et al., 2005)
 - **Family supports** (Ward & Carlson, 1995)
 - Stress:
 - ➤ Chaotic and stressful environments (Cairns et al., 1998; Davis & Cummings, 1994; De Wolff & van Ijzendoorn, 1997van Ijzendoorn et al.,)

Introduction: Adolescent Motherhood

• Infants born to adolescent mothers are subsequently at-risk for various detrimental outcomes:

O Attachment Relationships:

- ➤ Insecure attachment relationships (Broussard, 1995; Forbes et al., 2007; Lamb, Hopps, & Elster, 1987; Madigan et al., 2008; van Ijzendoorn et al., 1999)
- ➤ Insecure attachment relationships are associated with later difficulties (Sroufe, 2005; Sroufe et al., 2005)

O Developmental Outcomes:

- ➤ Impulse control and behavioural problems (Jaffee et al., 2001)
- Social and emotional functioning (Spieker et al., 1994)
- Thus, being raised by an adolescent mother places an infant at-risk for insecure attachment and subsequent developmental difficulties

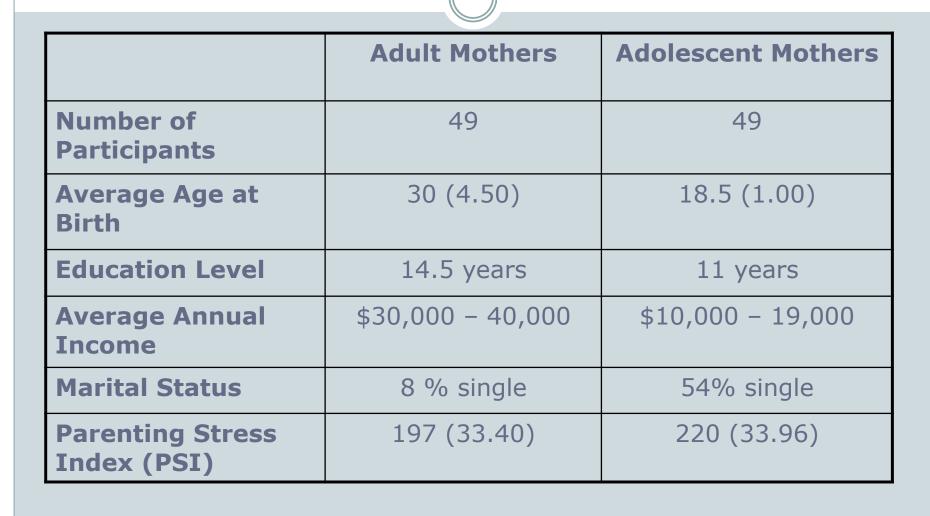
Introduction: Adolescent Motherhood

- Mechanisms underlying the association between adolescent motherhood and insecure attachment:
 - Adverse circumstances and maternal sensitivity:
 - ➤ Adolescent mothers display higher levels of insensitivity than adult mothers (Bailey et al., 1999; Haskett, Johnson & Miller, 1994; Spieker et al., 1994; Tarabulsy et al., in press)
 - ➤ Adolescent mothers show greater variability, more atypical behaviours and a broader range of behaviour during interactions with their infants (Bailey et al., 2007; Forbes, Evans, Moran & Pederson, 2007)
 - o Maternal sensitivity and attachment security:
 - ▼ Theoretical and empirical work has established maternal insensitivity as an important contributor to Insecure attachment relationships (Ainsworth et al., 1987; DeWolff & van Ijzendoorn,

Current Study

- While many studies have looked at the development of attachment relationships for adult and adolescent mothers separately, few studies have directly compared these two groups in a single study
 - The current study further explored the origins of attachment relationships for adolescent mothers and their infants by directly comparing the development of these processes with adult mothers and their infants
- The hypothesis that differences in the distributions of attachment classifications among these two populations is a result of low levels of sensitivity has yet to be tested in a mediational analysis
 - o The current study will test a model whereby differences in the quality of attachment relationships between these two groups is, at least in part, meditated by maternal sensitivity

Methods: Participants



Methods: Materials

- Maternal Behaviour Q-Sort (MBQS, Pederson & Moran, 1995):
 - o 90 items on individual index cards that provide descriptions of a mother's interactions with her infant.
 - "" "Responds to baby's signals" and "Scolds and criticizes baby".
 - O Q-Sort methodology is used by experienced sorters to arrange the cards into nine piles of ten cards each, ranging from pile 1 (*Least like the mother*) to 9 (*Most like the mother*).
 - O Global sensitivity represents the correlation between the scores of the observers Q-sort with those of a theoretically constructed sort of a prototypically sensitive mother.
- Strange Situation Procedure (SSP, Ainsworth et al., 1978).

Methods: Procedures

- Home Visit (12 Months):
 - Toy interaction
 - Maternal report and child developmental assessment
 - Maternal divided attention task
- Q-Sort of the MBQS
- Laboratory Visit (13 Months):
 - Strange Situation Procedure

Results

Mean Levels of Maternal Sensitivity

	Adult Mothers	Adolescent Mothers
Maternal Sensitivity	.51 (0.49)	.09 (0.63)

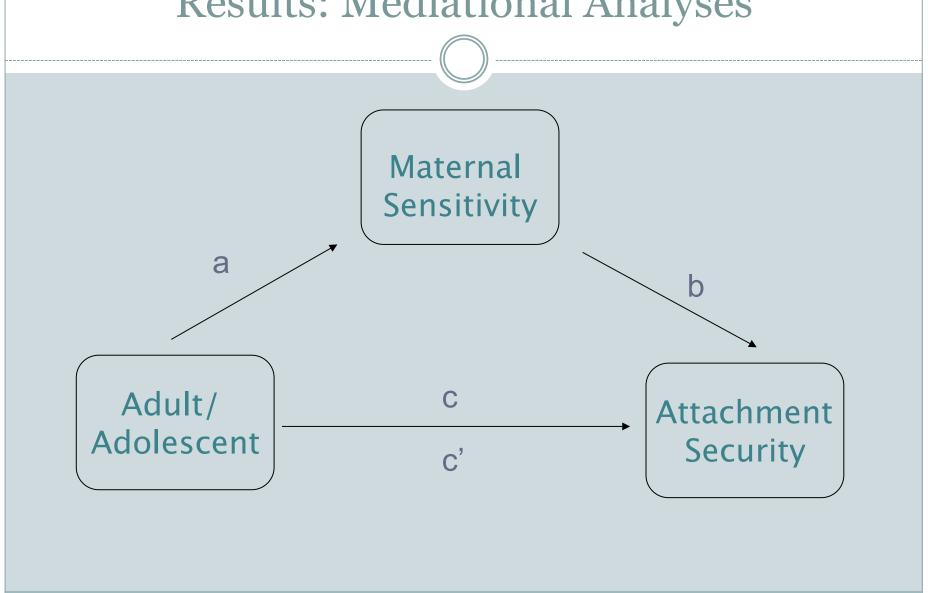
t (1,49) = 7.06, p <.001

Results

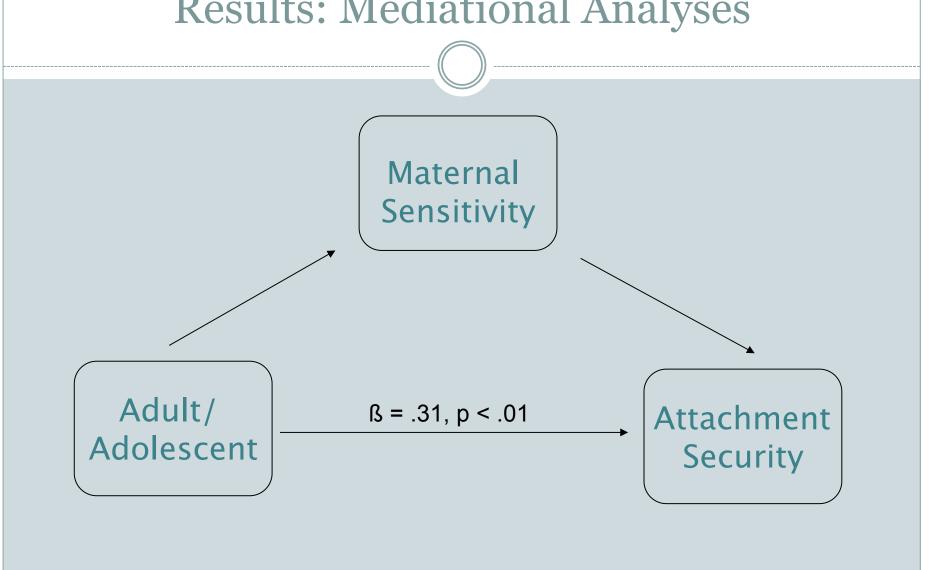
Distributions of Attachment Classifications

	Secure	Avoidant	Resistant	Total
Adult	34	10	5 (10.20%)	49
Mothers	(69.39%)	(20.41%)		(100%)
Adolescent	19	21	9 (18.37%)	49
Mothers	(38.78%)	(42.86%)		(100%)

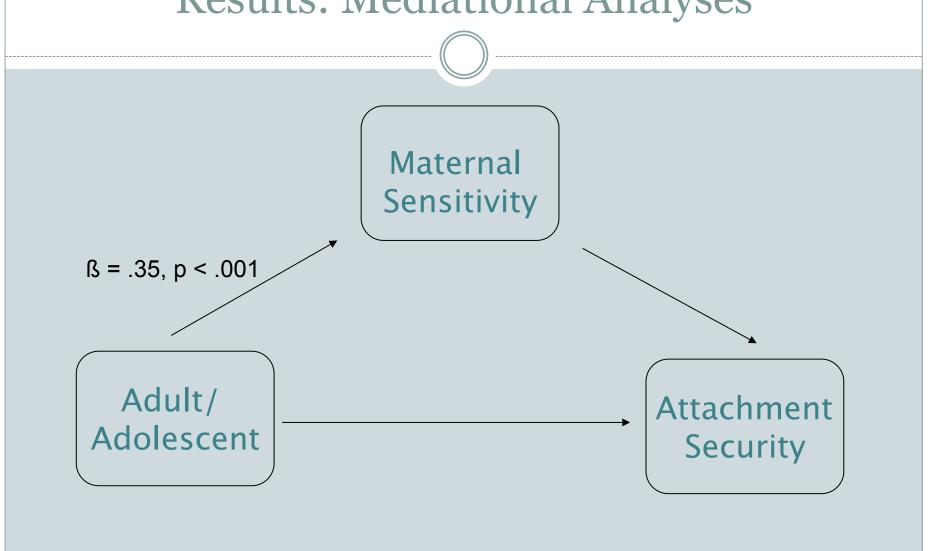
Results: Mediational Analyses



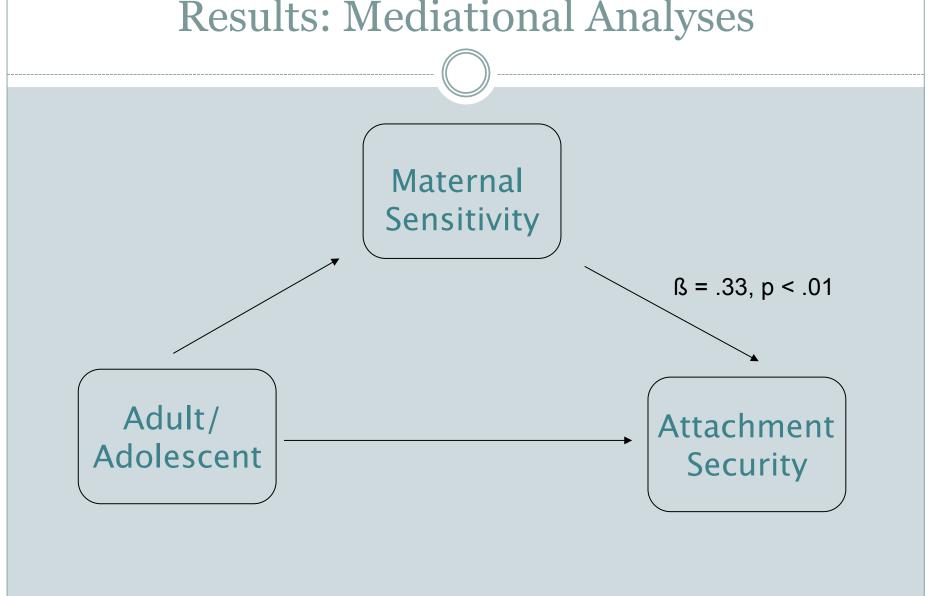




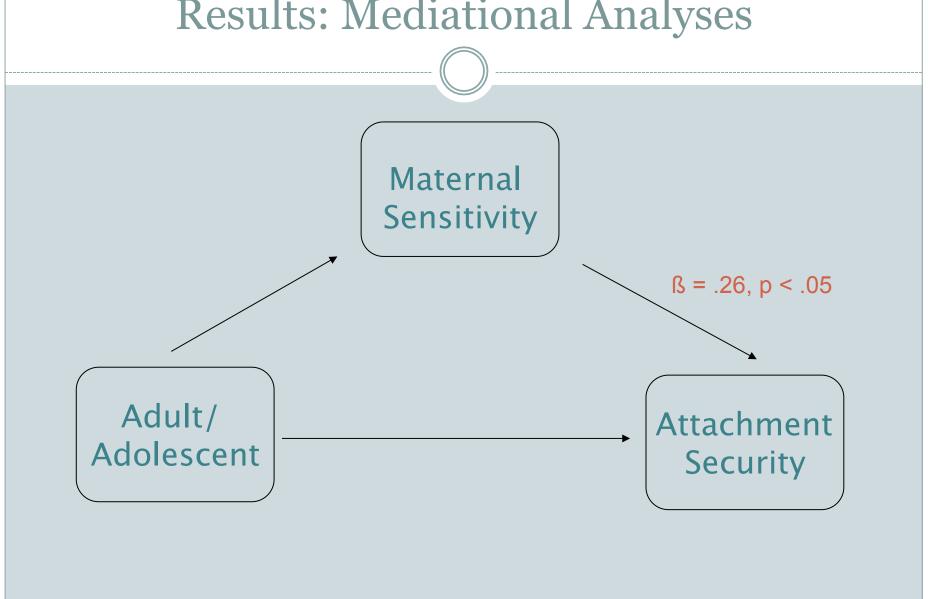
Results: Mediational Analyses



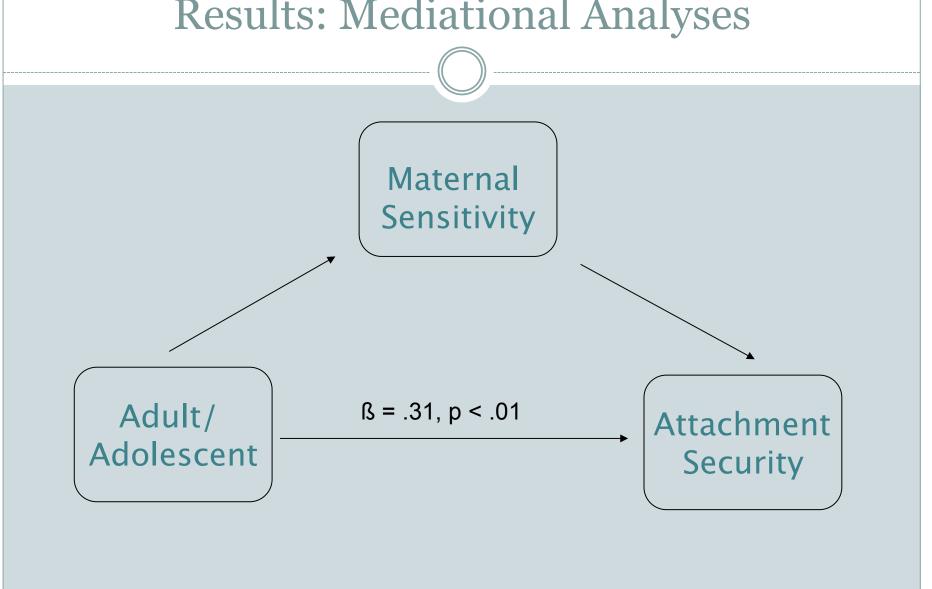




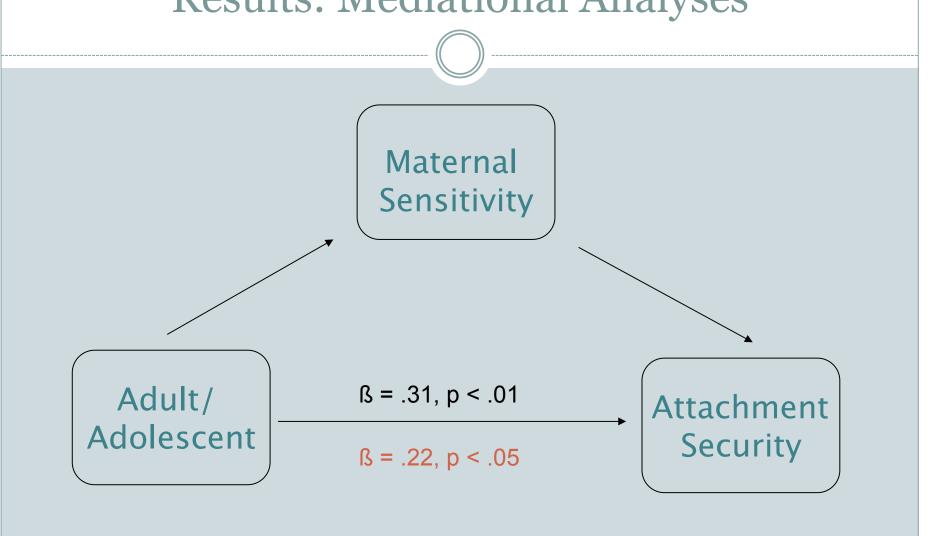




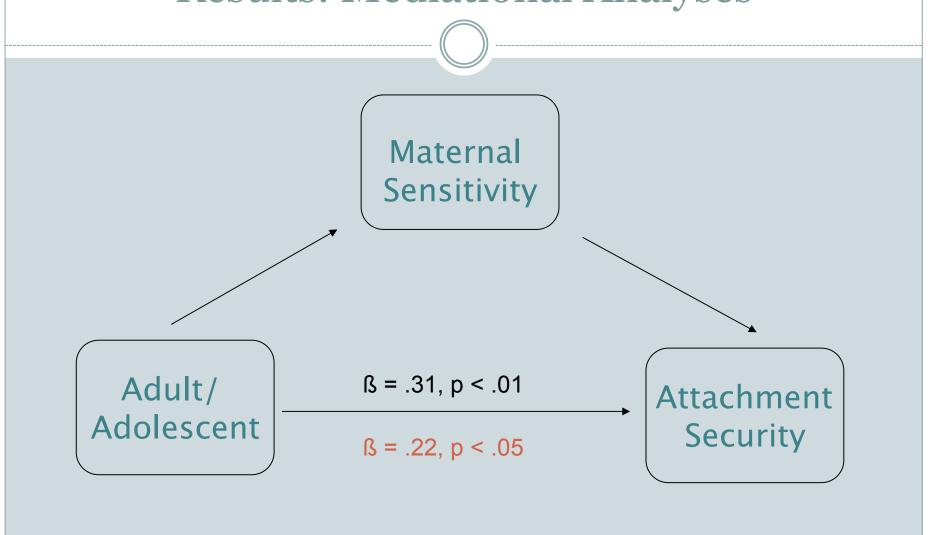












Sobel Test = -2.08, p < .05

Conclusions

- Adolescent mothers experienced challenges not faced by adult mothers:
 - Income level
 - Education level
 - Single parenthood
 - Parenting Stress
- Adolescent mothers were significantly less sensitive in their interactions with their infants than adult mothers
- Adolescent mothers were characterized by higher rates of Insecure relationships with their infants than adult mothers
- Challenges associated with adolescent motherhood appear to lower sensitivity during mother-infant interactions, contributing to the development of Insecure attachment relationships

Theoretical Implications

- Differences in attachment classifications for infants of adult and adolescent mothers are, at least in part, accounted for by variation in the quality of maternal interactions
- In contrast, there is some research to suggest other aspects of a high-risk environment prevent the development of Secure attachment relationships, in spite of high maternal sensitivity
 - Ie. Repeated separations (Sagi, van Ijzendoorn, Aveizer, Donnell, & Mayseless, 1994)
 - o Ie. Domestic fighting (Davis & Cummings, 1994)

Theoretical Implications

- The current findings suggest this is not the case for adolescent mothers
- However, it is possible that these characteristics of highrisk environments may impact attachment security by lowering levels of maternal sensitivity, or contributing to the development of insecure attachment relationships through another pathway

Clinical Implications

- These findings suggest that maternal sensitivity is an important target for clinical interventions aimed at improving the quality of attachment, and subsequent developmental outcomes, for infants of adolescent mothers.
- This is consistent with intervention studies that have found that increasing levels of maternal sensitivity also leads to improvements in attachment security (Juffer, Bakersmans-Kranenburg, & van IJzendoorn, 2007; Moran, Pederson & Krupka, 2005).

Clinical Implications

- However, more research is necessary to understand specific factors associated with adolescent motherhood that are impacting the quality of their interactions.
 - This may help further inform clinical interventions specifically targeting adolescent mothers.