

Dependent yet Developing: New Theorizing On the Unique Social Context of the Infant in Pain

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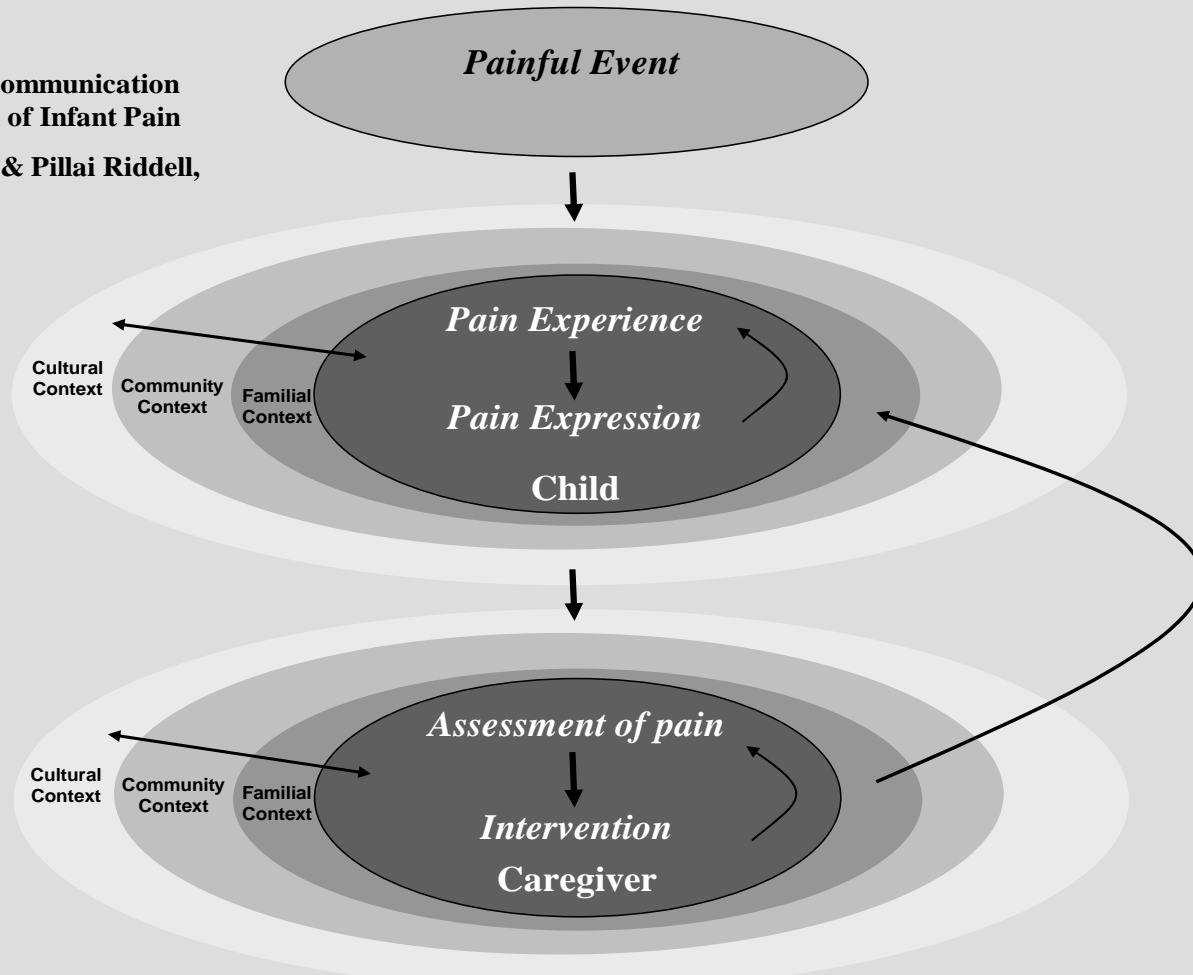
**Rebecca Pillai Riddell, PhD, CPsych
CIHR New Investigator in Pain
Assistant Professor, Psychology, York University
Scientific Staff, Psychiatry Research, Sick Kids**





Opportunities to Understand Childhood Hurt Laboratory

**The
Sociocommunication
Model of Infant Pain**
**Craig & Pillai Riddell,
2003**



Social Influences, Culture, and Ethnicity

Kenneth D. Craig and Rebecca R. Pillai Riddell

Department of Psychology, University of British Columbia,
Vancouver, British Columbia, Canada

The Development of Infant Actions in Pain Responding Model

The DIAPR Model



Focus on Pain *Responding*

- A central interest in not just pain-related distress reactivity but the regulation of this distress over time (pain-related distress reactivity over time)
- Differential social/psychological /biological influences on pain reactivity then on pain regulation
- Pain reactivity (more a function of sensory thresholds) versus Pain regulation (more a function of contextual factors)

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Maternal Emotional Availability and Infant Pain-related Distress

Laila Din,¹ MA, Rebecca Pillai Riddell,^{1,2} PhD, C. Psych, and Stuart Gardner,^{2,3} MD, FRCP

¹Department of Psychology, York University, ²Department of Psychiatry Research, The Hospital for Sick Children, and ³Department of Pediatrics, University of Toronto

Restricted Age Range

- Age focus is first year of life
 - Cognitive- Generally pre-symbolic representations and an emphasis on sensory perceptions and motor activities.
 - Social-Emotional – Learning about the social-emotional context (attachment, active regulation, joint attention) with some stability after 1 year
 - Biologically- these changes are *hypothesized* to be subsumed by development of related brain structures such as amygdala, orbitofrontal cortex etc)

Pillai Riddell, R.R., & Chambers, C.T. (2007). Parenting and pain during infancy. In K.J.S. Anand, B. Stevens, & P.J. McGrath (Eds.), *Pain in neonates and infants* (3rd ed., pp. 289-298). Amsterdam: Elsevier.

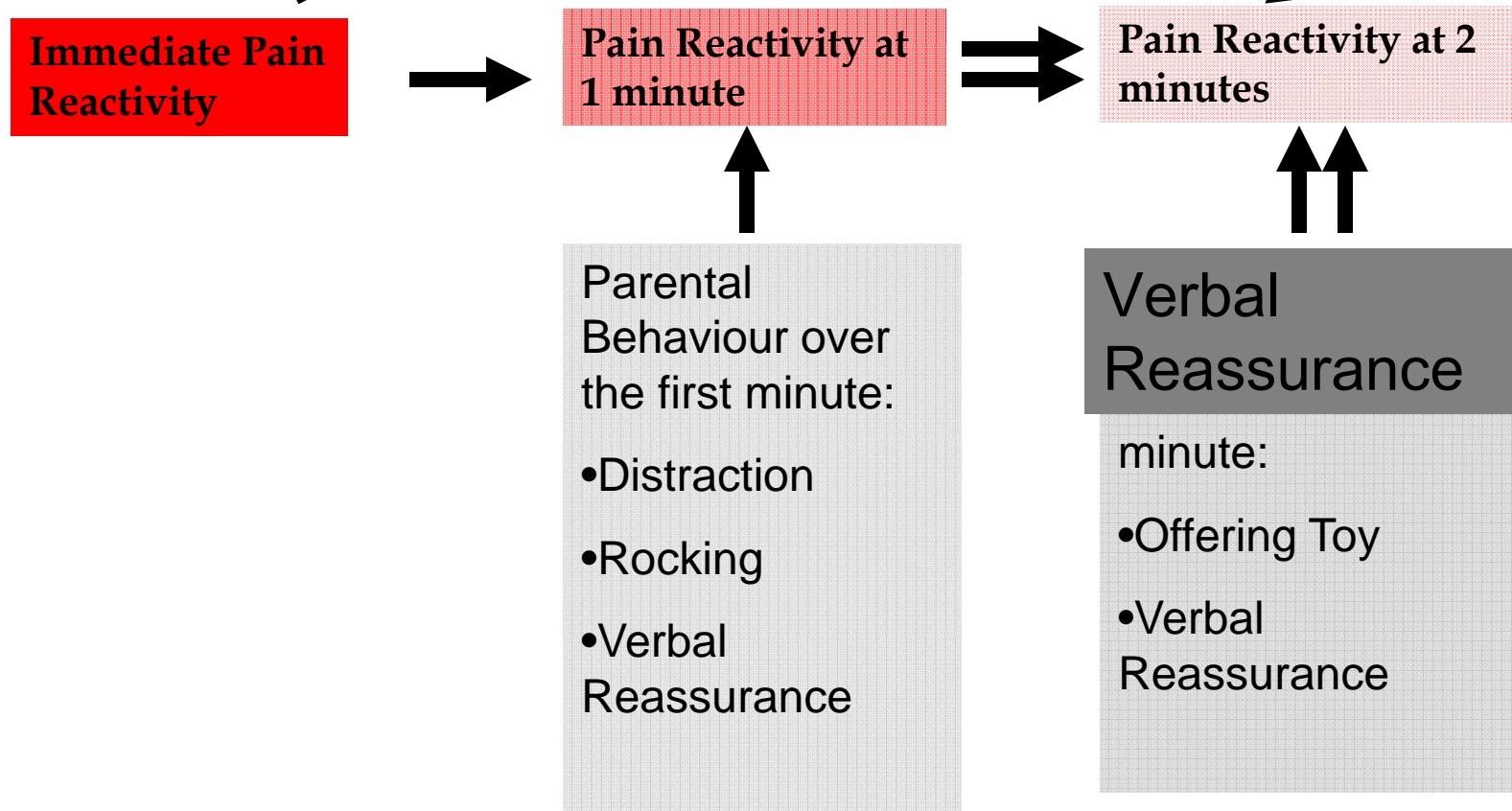


Transactional

- Pain responding during first year of life will be a function of the interaction between caregiver and infant factors, as they **both** develop over time.
- The dynamic influences are **not** equal
- Pain reactivity will be more a function of infant factors and pain reactivity regulation will be more of a function of caregiver influences

The O.U.C.H Cohort

Infant Pain-Related Distress Regulation: Be careful what you say
(Pillai Riddell, Flora, Taddio, Greenberg & Garfield, in preparation)



Caregiver Influences

- During the first year an infant's primary context is the primary caregiver or caregivers. Caregiver behaviour is the mechanism by which caregivers influence infant pain reactivity and regulation
- Caregiver behaviour will **STRONGLY** be a function of their current resources, pain knowledge/beliefs, past pain experiences, relationship styles and perceived stressors.



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Predicting maternal and behavioral measures of infant pain:
The relative contribution of maternal factors

Rebecca R. Pillai Riddell ^{a,b,*}, Bonnie J. Stevens ^{b,d}, Lindsey L. Cohen ^c,
David B. Flora ^a, Saul Greenberg ^{b,d}

^a York University, Toronto, Ont., Canada

^b Hospital for Sick Children, Toronto, Ont., Canada

^c Georgia State University, Atlanta, GA, United States

^d University of Toronto, Toronto, Ont., Canada

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Predicting Parental Attitudes Toward
the Helpfulness of Postoperative
Analgesic Medication

Rebecca R. Pillai Riddell
University of British Columbia

Christine M. Lilley
Children and Women's Hospital of British Columbia

Kenneth D. Craig
University of British Columbia

The Development of Infant Actions in Pain Responding Model (DIAPR; Pillai Riddell, in preparation)

- Graphic of Model to be available upon request (rpr@yorku.ca)



**Sara
Ahola**
PhD 2



**Laila
Din**
PhD 2



**Rachel
Horton**
Ph 2-3



**Jessica
Hillgrove**
PhD 1



**Nicole
Racine**
MA 1



**Kara
Turcotte**
Lab Manager

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*current

