

# Telephone-Based Peer Support Intervention for Postpartum Depression (PPD): Real World Implementation

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# Background

- Postpartum Depression (PPD) is a type of clinical depression that occurs after child birth (Dennis 2013).
- ➤ 10-15% of new mothers face this condition and it typically begins during the 1st 3 months postpartum (Gavin 20015).
- PPD is chronic rather than episodic, and chronicity is suggested by reports of continued symptoms during the 1st year for 30% to 60% of mothers and beyond the first year for 8%-63% (Letourneau, 2013; Reay 2011).
- PPD affects negatively on parenting quality, mother-infant interaction, infant emotions and personality, and longer-term child behavioural and cognitive outcomes (Dix 2014; Letourneau 2012; Lilja 2012).
- Women with PPD are less likely to adopt established treatments such as antidepressant medications, cognitive-behavioural and psychotherapy due to concern about transfer to the infant in breast milk and due to time and financial constraints (Davis 2012).
- Evidence grows on the positive effects, acceptability and accessibility of telephone-based peer support (TBPS) for women with PPD (Dennis 2009).
- ➤ Edinburgh Postnatal Depression Scale (EPDS) Scores ≥ 12 are consistent with physician diagnosis of major depressive disorder with postpartum onset (Cox 1997)

# Research Questions

- 1. Do mothers with PPD (EPDS≥12) who receive a three month peer telephone support mentorship intervention show lower symptoms and/or rates of depression?
- 2. How many telephone support calls are required to lower symptoms and/or rates of depression in mothers with PPD (EPDS ≥12)?

# Methods

### **Telephone Peer Support Mentorship:**

- > Volunteer Mentors
- > Eligibility criteria for Volunteers included
  - > A self-reported history of PPD
  - Motivated to help women with PPD
  - > 19 to 45 years old
  - > speak and understand English &/or French
  - not currently depressed (repeat scores EPDS<6)</p>
- ➤ Mentor Training & Manual
  - ➤ Increase support skill
  - > Refresher training & debriefing
- ➤ Weekly telephone support for 12 weeks:
  - ➤ Provided informational, emotional, affirmational, and practical support

### Recruitment & Criteria:

- Screened by Tele-Care (811) and public health nurses with the EPDS
- ➤ Moms 15 45 years old with a child less than 24 months
- ➤ EPDS ≥ 12 <20 to enter study

### Setting:

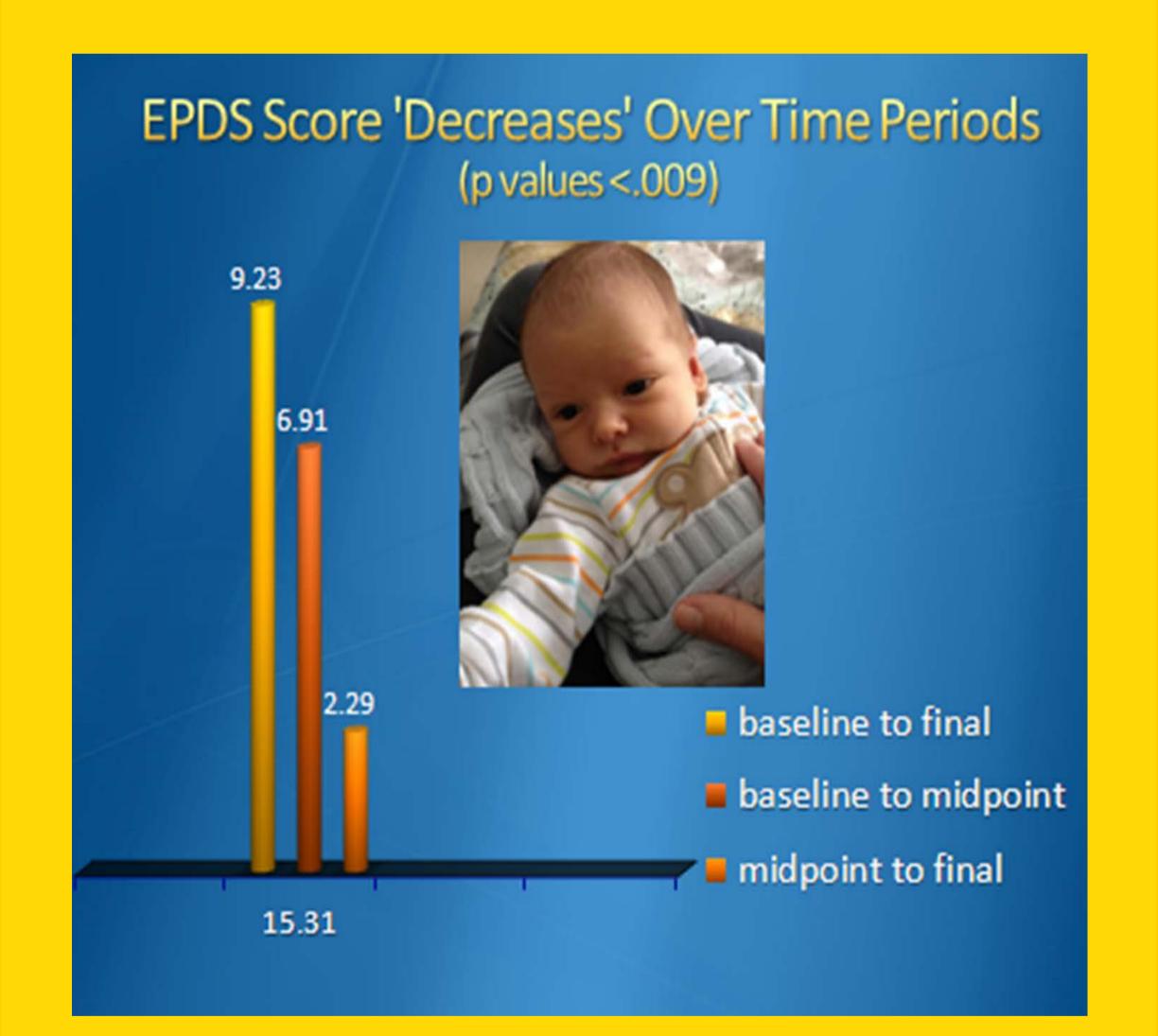
Atlantic Province of New Brunswick in Canada (North and Adjacent to Maine)

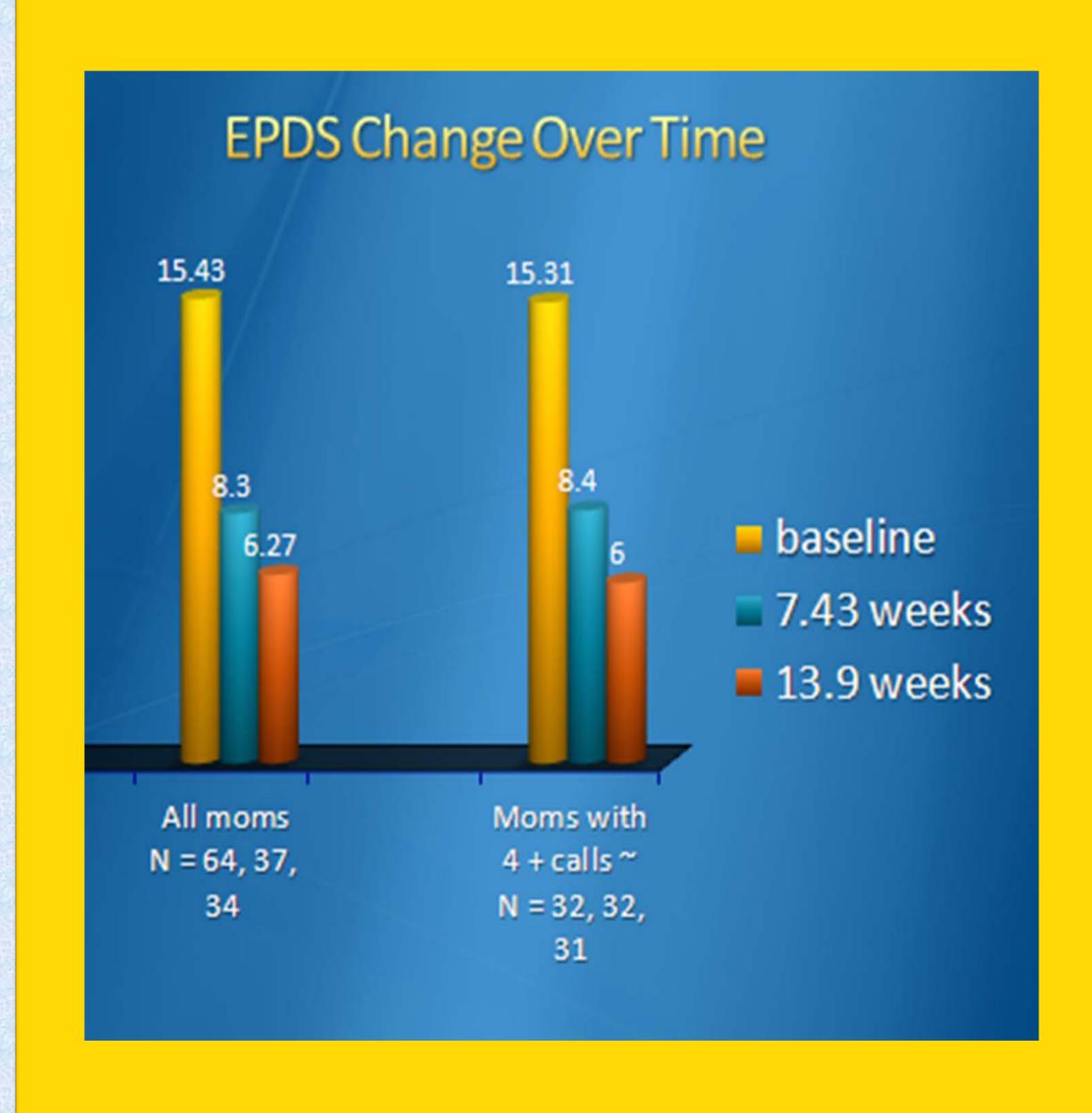
# Results

Description of sample	Mothers N (%)	Mean	SD	Range
Mother Age (years)		26.25	6.74	17-43
Language: English	46 (74.2)			
French	9 (14.5)			
Prenatal Depression Symptoms	48 (77.4)			
Pregnancy Complications	35 (56.5)			
Infant Age (months)		7.58	5.44	1-23
Full Term Birth	53 (81.5)			
NICU Stay	25 (41)			
Infant Days in NICU		4.46	.50	0-24

EPDS Depression Rates Outcome						
	Depressed	Not Depressed	% depressed	total		
baseline	64	0	100%	64		
7.43 weeks	3	34	8.1	37		
13.9 weeks	4	30	11.8	34		
Intention to treat	23	30	44.23	52*		
+ with EPDS>=12 at baseline						
* All assigned a mentor						

# EPDS Change Over Time 18 16 15.43 14 12 10 8 6 4 2 0 baseline 7.43 weeks 13.9 weeks





## Conclusions

### **Main Findings:**

- > Tele-support intervention decreased PPD
- Findings validate previously reported benefits of TBPS for mothers with mild to moderate PPD (Dennis 2009), now in the real world setting
- ➤ Validated findings about satisfaction of mentors (Leger 2014)

### **Study Limitations:**

- > Small sample
- > Attrition

### Recommendations

### Peer Tele-Support Intervention:

- Length of support responsive to EPDS score and mother's needs
- Closer monitoring of EPDS during intervention
- Use of EPDS 10 cut-off point to demonstrate effectiveness

### Implement Systematic Screening for PPD:

- During the entire perinatal period
- > Online or email EPDS monitoring
- Special attention to high risk groups

# Acknowledgements

Funders: CIHR Health System Improvement Grant, 2010 – 2014; Government of NB

Province of New Brunswick: Sarah Aldous, Claudette Landry, Ken Ross

Sykes Telecare: Alan Bechervaise, Murielle Wade and Juliann Cormier.

Co-Investigators & CHILD Staff: Juliann Cormier, Anita Kozyrskyj, Patrck McGrath









