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Perinatal Depression: Current Management Issues

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Clinical Importance of Depression



- Depression is one the most common health problems women experience
- It is estimated that 20-25% of women will experience depression during their lifetime
- Further, for 30-50% of women who do experience depression, it is estimated to become a chronic recurring condition



- Although depression affects individuals throughout the lifespan, women are at increased risk during their reproductive years
- In North America, outside of obstetrics, depression is the leading cause of hospitalizations among women ages 15 to 44

Antenatal Depression

- Prevalence across pregnancy: 12.7% (18.4% with minor depression) (*Gavin et al, 2005*)

Postpartum Depression (PPD)

- Prevalence in the first 12 weeks postpartum: 13% (*O'Hara & Swain, 1996*)

→ For women with a history of depression, 35% PPD rate

→ For women with depression during pregnancy, 50% PPD rate

Persistence of PPD

- For the majority of mothers, PPD starts within the first 12 weeks postpartum
- National Canadian data suggest 8% of mothers will continue to experience PPD past the first 5 months postpartum and into the following year (*Dennis, et al 2012*)
 - this rate is more than 4 times the 1.4% point prevalence for depression among women found in the Canadian Community Health Survey

**Most frequent form of
maternal morbidity
following childbirth**



Unfortunately, PPD occurs at a time when the infant is:

- Maximally dependent on parental care
- Highly sensitive to the quality of the interaction

- Given the persistence of PPD and its association with recurrent depressive episodes (*Copper et al 2003; Nysten et al 2010*), concern for child development is warranted as maternal depression can:
 1. Be incompatible with good parenting cognitions and behaviours
 2. Cause significant distress for children due to a stressful home environment (*Goodman & Gotlib 1999*)

Health Promotion Consequences

- Research suggests maternal health promotion behaviours are diminished as mothers with PPD are less likely than non-depressed mothers to:
 - Breastfeed
 - Attend well-child visits
 - Complete immunizations
 - Use home safety devices
 - Put infants to sleep on their back
 - Engage in enriching activities (reading, singing, outdoor activities)

(Zajicek-Farber 2009; Cadzow et al 1999)

Child Developmental Consequences

- Mothers with PPD also have children with poorer developmental trajectories
- Risk transmission through altered maternal-child interaction (*Rishel, 2012*)

Does treating maternal PPD improve
child developmental outcomes?



- A systematic review that examined associations between improvements in parents' depression and their children's psychopathology confirmed the positive effects of treatment (*Gunlicks & Weissman 2008*)

→ Need to treat to complete remission

Management of Perinatal Depression



Case Identification

- The first step in the management of PPD is case identification
- Research consistently demonstrates that informal surveillance is imprecise with less than 50% of mothers with perinatal depression identified despite various interactions with health professionals (*Yawn et al 2012; Goodman & Tyer-Viola, 2010*)

Antenatal Screening

- You can screen antenatally but only if it is to identify women with current depressive symptoms needing intervention → not to identify asymptomatic women at risk of developing PPD

Postnatal Screening

- Various generic depression screening tools have been used in perinatal population
- However, the majority of clinicians and researchers use a specialized PPD screening tool
- The most widely used is the Edinburgh Postnatal Depression Scale (EPDS)

Edinburgh Postnatal Depression Scale (EPDS)

- 10-item self-report instrument
- Scores range from 0 to 30
- Cut-off 12/13 (> 12) – probable PPD
- Cut-off 9/10 (> 9) – possible PPD
- Widely available and free

EPDS

- Validated for antenatal use
- Translated and psychometrically tested in many non-English populations
- Surveys of large samples of perinatal women have found acceptability to be high (80-90%)
- Critical factor
 - Provides a common language
 - Enables comparability of clinical and research results

Health Professionals

- Researchers have examined PPD screening in diverse settings with differing professionals including:
 - Public health nurses
 - Obstetricians
 - Midwives
 - Family physicians
 - Paediatricians
 - Nurse practitioners

Does perinatal depression screening
increase the number of mothers
who recover?

- Research clearly suggests that screening alone is insufficient to ensure the provision of appropriate treatment and thus ultimately improving clinical outcomes

- The U.S. Preventive Services Task Force recommends screening adults for depression in clinical practices that have systems in place to assure:
 1. Accurate diagnosis
 2. Effective treatment
 3. Follow-up

Effective Treatment Tools

Pharmacological

Psychological

- Interpersonal psychotherapy (IPT)
- Cognitive behavioural therapy (CBT)

Psychosocial

- Peer support /support groups
- Non-directive counselling

Alternative

- Relaxation/Massage
- Exercise
- Yoga
- Bright light therapy

Maternal Treatment Preferences

- While pharmacological interventions are effective in the treatment of PPD, many mothers prefer “talking therapies” → especially if they are breastfeeding (*Dennis & Chung-Lee, 2006*)

Interpersonal Psychotherapy (IPT)

- Interpersonal psychotherapy (IPT) is a common and effective ‘talking therapy’ for depression
- At least 8 studies have evaluated the effect of IPT on depression during the pregnancy and postnatally

- Unfortunately, IPT is not widely available, especially in rural and remote areas
- There are also long wait-times to receive IPT from a trained psychiatrist or psychologist
- PPD treatment has unique barriers (e.g. childcare issues) and high attrition rates in group or clinic-based PPD treatment programs

→ **suggest the need for novel treatment modalities**

Telepsychiatry

- To improve access to care, telepsychiatry has been introduced and includes the provision of psychiatric services via telephone
- Telepsychiatry can play an important adjunct role within an integrated health care system
- It is predicted to become an increasingly acceptable alternative to traditional face-to-face services
- The provision of IPT by trained nurses can also increase the clinical utility and feasibility of this treatment option

Interpersonal Psychotherapy Trial



An RCT to Evaluate the Effectiveness of
Telephone-Based Interpersonal
Psychotherapy for the Treatment of
Postpartum Depression

Funding: CIHR

- While effective treatment tools exists for PPD, less than 30% of mothers with depression in the first year postpartum receive adequate treatment

- Common barriers to treatment include:
 1. Maternal preferences and perceived barriers
 2. Lack of clear referral pathways
 3. Lack of follow-up
- Systematic treatment approaches are required to address the gap between the existence and uptake of effective PPD treatment tools

Collaborative Care

- “Collaborative care” is an *approach* to treatment that is highly effective for the management of general depression
- In a collaborative care model, case identification occurs at the primary care level
- A depression care manager directs individuals to appropriate treatment and monitors progress – all in collaboration with a mental health specialist

Treatment Follow-Up

- Part of the success of this approach is that it actively promotes treatment initiation and adherence while addressing patient preferences and perceived barriers
- Also ensures appropriate follow-up and treatment to remission

Treatment: Evaluating New Approaches



Evaluating Collaborative Care for Postpartum Depression in Paediatric Primary Care Settings

Funded: CIHR

Design Overview

- A RCT will be conducted to evaluate the effect of a collaborative care intervention for depression on diverse maternal and infant outcomes among mothers between 0 to 6 months postpartum with depressive symptomatology identified during well-child visits in eight primary care practices across Toronto

Can You
Prevent
Postpartum
Depression?



Is there any evidence to
suggest we can
effectively **PREVENT**
postpartum depression?

Cochrane Systematic Review

Psychosocial and Psychological Interventions for the Prevention of Postpartum Depression: An Update

Dennis, C-L., Dowswell, T. (2013). Psychosocial and psychological interventions for preventing postpartum depression. The Cochrane Database of Systematic Reviews, Issue 2.

Summary

- Overall psychosocial and psychological interventions may decreased the risk of developing PPD by approximately 22%

- There is beginning evidence to suggest the importance of:
 1. Additional professional support initiated postnatally
 2. Telephone-based peer support initiated postnatally
 3. Interpersonal psychotherapy (IPT)

- Interventions are more likely to be beneficial if they are:
 - Initiated postnatally
 - Individually-based
 - Include multiple contacts
 - Target ‘at risk’ women

- Postnatal interventions that were successful
→administered Edinburgh Postnatal Depression Scale (EPDS) early in the postpartum period to identify depressive symptomatology
- Secondary preventive interventions

Canadian PPD Prevention Trial

Postpartum Depression Peer Support Trial

(Dennis, C-L., Hodnett, E., Kenton, L., Weston, J., Zupancic, J., Stewart, D., & Kiss, A. (2009). The effect of peer support on prevention of postnatal depression among high-risk women: a multi-site randomized controlled trial. *British Medical Journal*, 338:a3064).

Funding: CIHR



Summary

- Telephone-based peer support may be effective in preventing PPD among high-risk mothers
- Mothers who received peer support were at half the risk to develop PPD

Postpartum
Depression:
A Family Affair



Paternal PPD Prevalence



- A recent meta-analysis suggests that approximately 10.4% of fathers will experience depression in the first year postpartum
- This rate is significantly higher than the 12-month prevalence of 4.8% found in US national data for general depression in men.

(Paulson et al. 2010)

- Some evidence that PPD in fathers begins later, often following the onset in mothers and with the rate increasing over the first year postpartum

Paternal PPD Consequences



- Evidence is beginning to accumulate that fathers can also have a serious negative influence on child outcomes
- While fathers' roles vary widely between and within different social and cultural groups, in most countries fathers have an active role in childcare



Dual Parental Depression



- It has been hypothesized that dual parental PPD has an additive effect on infants, placing them at even higher risk for adverse outcomes than those who only have one depressed parent

Mechanisms: Single vs. Dual Parental Depression

Impact of **M**aternal and **P**aternal Postpartum Depression:
Assessing **C**oncurrent Depression in **T**he Family
(The **IMPACT** Study)



Funded: CIHR

Design Overview

- A longitudinal study where 5000 mothers + fathers across Canada will complete questionnaires at 3, 6, 9, 12, 18, and 24 months postpartum
- Objective: to examine the impact of parental depression in the first 2 years of a child's life

→ focus on understanding the mechanisms by which single (maternal PPD only or paternal PPD only) versus dual (maternal and paternal PPD) parental depression affect infant outcomes

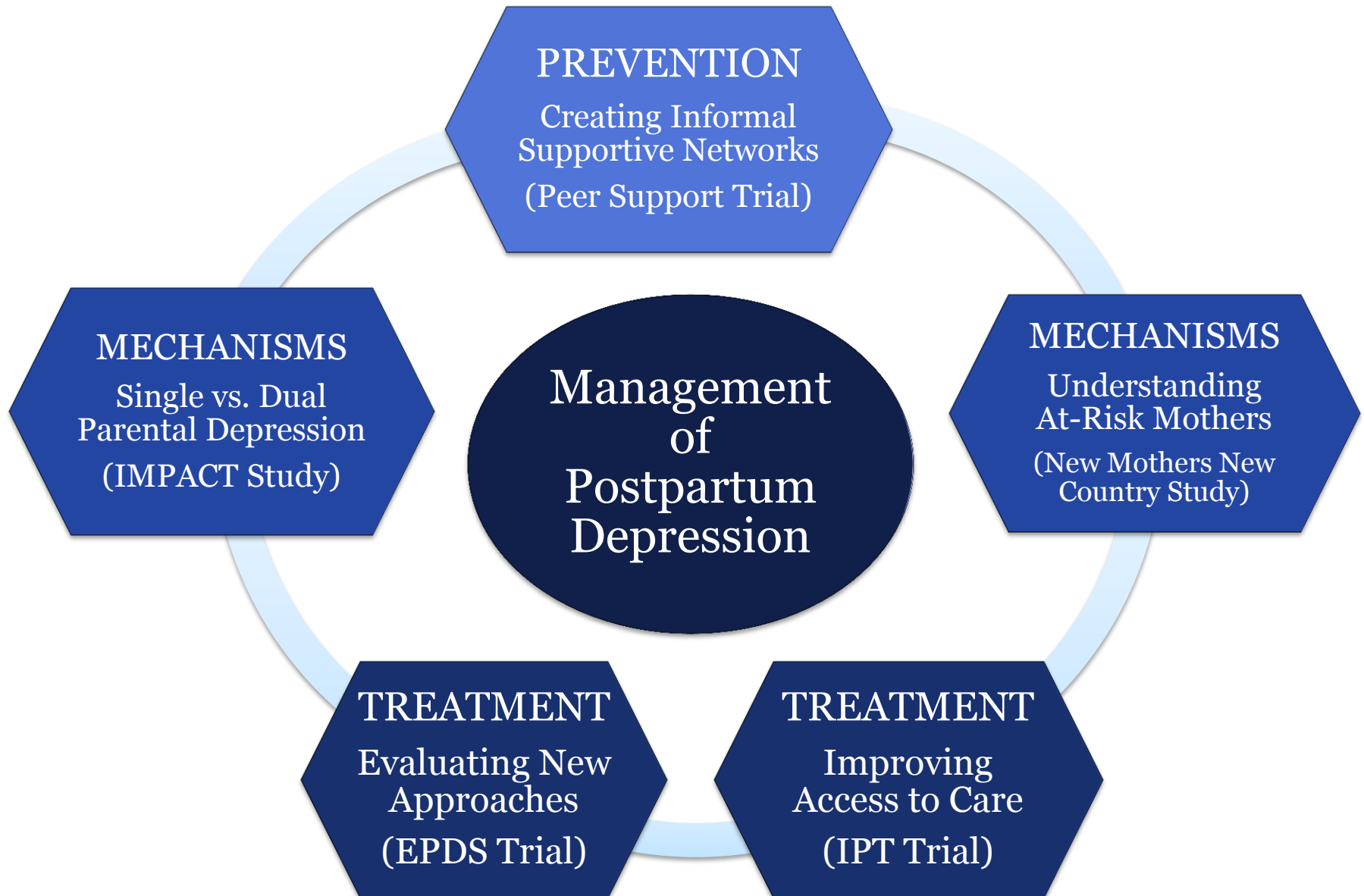
NICE Guideline for Depression

- Recommends a stepped care framework that aims to match the needs of adults with depression to the most appropriate services

Step 5	Inpatient care, crisis teams	Risk to life, severe self-neglect	Medication, combined treatments, ECT
Step 4	Mental health specialists, including crisis teams	Treatment-resistant, recurrent, atypical and psychotic depression, and those at significant risk	Medication, complex psychological interventions, combined treatments
Step 3	Joint working between Primary and Secondary Care Primary care team, primary care mental health worker	Moderate or severe depression	Medication, psychological interventions, social support
Step 2	Primary care team, primary care mental health worker	Mild depression	Watchful waiting, guided self-help, computerised CBT, exercise, brief psychological interventions
Step 1	GP, practice nurse	Recognition	Assessment

Adapted from NICE Guidelines¹

Research Initiatives: \$6 million Investment



Questions

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