Postpartum Depression: Making the Case for Routine Screening

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CASE REPORT

Mrs. R is a 29-year-old woman primipara who presents for a routine check-up 6 weeks postpartum. Her history and physical are unremarkable except that during the past month she has found it harder to concentrate on simple tasks, such as making the baby's formula. Also, despite always feeling exhausted, she has been having trouble falling asleep after the baby has been put to sleep. When questioned about her mood, she replies, "I feel fine", but offers little else. You know that these complaints may be symptoms of postpartum depression (PPD), but because they are non-specific, often non-pathologic (especially postpartum) and she denies feeling depressed, you are not sure whether the clinical presentation warrants a more thorough investigation of Mrs. R’s mental state. Should you investigate more thoroughly? If so, instead of taking a lengthy psychiatric history, what fast and effective methods could be used to explore the possibility that this patient has, or is at risk of developing PPD? Also, what are the current guidelines for diagnosing and treating PPD?

DISCUSSION

At least 10% of mothers will suffer from postpartum depression (PPD) (1,2,3) a debilitating condition that is defined as a Major Depressive Episode, which has an onset within 4 weeks postpartum (See Table 1 for the DSM-IV-TR diagnostic criteria and differential diagnosis for PPD). Although clinicians have come to accept the view that PPD is a common and serious medical condition, they are still debating the ideas concerning the etiology of the illness. Biological theorists have suggested that postpartum fluctuations in hormones and/or other biological factors are responsible for causing PPD (1,2,3) Psychological models have also attempted to explain the etiology of PPD. For instance, the cognitive model suggests that factors such as low self-esteem and dysfunctional relationships predispose the mother to depression, which is then precipitated by postpartum stress (1). Although evidence exists for both biological and psychological theories, conflicting data has made it impossible to definitively claim that any one of these theories is alone capable of explaining the etiology of PPD (1). Instead, research suggests that a multifactorial etiology, which includes both biological and psychological factors, is probably responsible for the illness (8).

While the etiology of PPD is still debated, the implications of accurately diagnosing the condition remains important for the immediate and long-term mental health of the mother (1), her spousal relationship (1) and even the cognitive and behavioral development of her child (1,2). Since PPD detrimentally affects so many lives, it is unfortunate that many cases go undiagnosed (1,2). One major reason for under diagnosis is that many physicians only inquire casually about a new mother's mental state (1,2) In addition, there are several reasons why some mothers with PPD will not disclose their symptoms. One reason is that there is still a stigma surrounding mental illness. Another reason is that some women harbor guilt about feeling depressed during a period when they are expected to be blissful (1). Yet another reason is that some women assume that they should experience some physiological changes (e.g. insomnia) during the first few postpartum months, and are therefore embarrassed to "complain" about certain symptoms to their family doctors (16).

Since it is beneficial for physicians to explore the issue of PPD more thoroughly, what fast and effective

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Two accepted approaches that can be used concomitantly are:

a) routine screening of all postpartum mothers and b) heightened attention to the risk factors for PPD. The next section of this paper describes how these two methods can be used effectively to increase the detection of this devastating disease.

**Routine Screening and Risk Factors for PPD**

One way for physicians to explore the issue of PPD is to routinely screen all postpartum mothers, a procedure that is very easy and effective, but for unknown reasons is almost never used (1). Among various screening tests for PPD, experts consider the Edinburgh Postnatal Depression Scale (EPDS) (1) to be the best choice in terms of its ease of administration, validity, specificity and sensitivity (16,19,1,2,38) (See Table 2 for the EPDS scale and guidelines for raters.) This scale has been validated using standardized psychiatric interviews and translated into fourteen languages (19,1,2,3). Furthermore, evidence from four studies has confirmed that the tool is approximately 86% sensitive and 90% specific for PPD. These are impressive statistics when one considers that the test consists of only 10 multiple choice questions and takes mothers less than 5 minutes to complete (16,19).

In addition to routinely screening postpartum mothers,
Table 2. Edinburgh Postnatal Depression Scale (EPDS) and Guidelines for Raters

Guidelines for Raters (19)
1. The mother is asked to underline the response which comes closest to how she has been feeling in the previous 7 days.
2. All ten items must be completed.
3. Care should be taken to avoid the possibility of the mother discussing her answers with others.
4. The mother should complete the scale herself, unless she has limited English or has difficulty with reading.
The child health clinic, postnatal check-up or a home visit may provide suitable opportunities for its completion.

Scoring the EPDS
Response categories are scored 0, 1, 2, and 3 according to increased severity of the symptoms. Items marked with an asterisk are reverse scored (i.e. 3, 2, 1, and 0). The total score is calculated by adding together the scores for each of the ten items. Individual items are totalled to give an overall score. A score of 12+ indicates the likelihood of depression (with about 90% specificity and 86% sensitivity), but not its severity (19,22,23,24). If a woman scores 12+, this warrants a full psychiatric history during which a DSM-IV diagnosis of PPD is considered. A woman who scores 5-11 should be evaluated again in 2-4 weeks in order to assess whether there has been a worsening of symptoms. A patient who scores less than 12 on the EPDS, but scores 3 or 2 on Question 10 warrants a full psychiatric evaluation. The EPDS Score is designed to assist, not replace clinical judgement.

Edinburgh Postnatal Depression Scale (19)
As you have recently had a baby, we would like to know how you are feeling. Please UNDERLINE the answer which comes closest to how you have felt IN THE PAST 7 DAYS, not just how you feel today.

| Question | Options |
|----------|---------|
| 1. I have been able to laugh and see the funny side of things. | As much as I always could, Not quite so much now, Definitely not so much now, Not at all |
| 2. I have looked forward with enjoyment to things. | As much as I ever did, Rather less than I used to, Definitely less than I used to, Hardly at all |
| 3. I have blamed myself unnecessarily when things went wrong. | Yes, most of the time, Yes, some of the time, Not very often, No, never |
| 4. I have been anxious or worried for no good reason. | No, not at all, Hardly ever, Yes, sometimes, Yes, very often |
| 5. I have felt scared or panicky for not very good reason. | Yes, quite a lot, Yes, sometimes, No, not much, No, not at all |
| 6. Things have been getting on top of me. | Yes, most of the time I haven't been able to cope at all, Yes, sometimes I haven't been coping as well as usual, No, most of the time I have coped quite well, No, I have been coping as well as ever |
| 7. I have been so unhappy that I have had difficulty sleeping. | Yes, most of the time, Yes, sometimes, Not very often, No, not at all |
| 8. I have felt sad or miserable. | Yes, most of the time, Yes, quite often, Not very often, No, not at all |
| 9. I have been so unhappy that I have been crying. | Yes, most of the time, Yes, quite often, Only occasionally, No, never |
| 10. The thought of harming myself has occurred to me. | Yes, quite often, Sometimes, Hardly ever, Never |

(Taken from the British Journal of Psychiatry, June, 1987, Vol. 150, by J.L. Cox, J.M. Holden, R. Sagovsky)
physicians can further explore the possibility of PPD by asking patients about the risk factors for the illness. This is an effective strategy because certain risk factors are very strong predictors of whether a patient is susceptible to PPD (33-37). Some important risk factors for physicians to keep in mind are included in Table 3.

| Table 3. Risk Factors for PPD |
|-------------------------------|
| History of depression prior to conceiving (3). |
| History of PPD in previous pregnancies (3). |
| Family history of depression (32). |
| Few supportive family members or friends (3). |
| Financial or housing difficulties (3). |
| Severe premenstrual syndrome (35). |
| Dysfunctional spousal relationship (34,3). |
| Other stressful life events during the pregnancy or after the childbirth (3). |

**Management of PPD**

The management of PPD parallels that of Major Depressive Disorder; however, there are some special management considerations for patients with PPD (1,2,3,4,5). Some of these considerations are described in Table 4.

**Case Revisited**

Since casual inquiry may not reveal PPD symptoms that Mrs. R could be experiencing, you decide to investigate her complaints more thoroughly. You screen Mrs. R using the EPDS and she has a score of 14, which suggests that there is a 90% probability that she suffers from PPD. She also has several of the risk factors for the condition (i.e. marital discord and financial difficulties), which corroborates the positive EPDS score. Because of the high probability that Mrs. R has PPD you take a detailed psychiatric history during which you apply the DSM-IV criteria of PPD, and also rule out disorders that present like PPD.

You determine that she does in fact have moderate PPD, so you recommend SSRI antidepressant administration, with follow-up within 2 weeks to assess side effects and response. As well, you provide her and her husband with patient education materials. You also initiate or make a

| Table 4. Management of PPD |
|-----------------------------|
| **Mild PPD** |
| Symptoms that barely fulfill the DSM-IV diagnostic criteria for PPD and cause a minor impairment of social/occupational functioning. |
| " Individual interpersonal therapy or group counselling, and couples therapy if marital discord is a factor. Also, patient education materials should be provided for the mother and spouse (16) |
| " If there is no response to talk therapy, consider adding a SSRI or tricyclic antidepressant*. |
| " If the depression worsens, or there are suicidal/infanticidal thoughts, or symptoms of psychosis, or inadequate response to an antidepressant, then refer to a psychiatrist (16). |
| **Moderate/Severe PPD** |
| Symptoms in excess of the bare requirements to fulfill the DSM-IV diagnostic criteria for PPD and cause a major impairment of social/occupational functioning. |
| " Consider a SSRI or tricyclic antidepressant* +/- individual interpersonal therapy or group counselling, and couples therapy if marital discord is a factor. Also, patient education materials should be provided for the mother and spouse (16) |
| " If the depression worsens, or there are suicidal/infanticidal thoughts, or symptoms of psychosis, or inadequate response to an antidepressant, then refer to a psychiatrist (16). |

**Notes on antidepressant administration:**

" Selective serotonin-reuptake inhibitors (SSRIs) (25,27), venlafaxine (28) and tricyclic antidepressants (TCAs) (29) have been shown to be more effective than placebo for treating PPD, and are therefore considered to be appropriate therapy for PPD. Fluoxetine was shown to be as effective as psychotherapy for treating PPD (27). |

" SSRIs or venlafaxine should be considered as first-line drug therapy rather than TCAs because they are associated with a lower risk of toxic effects in patients who have taken an overdose (3). Also, women with PPD are more likely to have a response to SSRIs or venlafaxine than to TCAs (25,28,29). However, TCAs should be considered for women who have responded to them in the past (38). |

" Administration of TCAs or SSRIs is not contraindicated during breastfeeding. However, small amounts of the drugs do reach the infant via breast milk. Since the long-term effects of this exposure are not known, parents should make informed decisions that are documented in their medical records. It should be emphasised to women with moderate/severe depression, women who have not responded to psychotherapy, and women who are suicidal, infanticidal or psychotic that the benefits of taking antidepressants are considered to outweigh the risks of exposure to the infant. |

" If an exposed infant seems irritable, plasma concentration of the drug should be determined and appropriate dosage adjustments made (38). |

" Antidepressant therapy should be started at the starting doses used for nonpuerperal depression. Once a full remission is achieved, therapy should continue for a minimum of six months, in order to prevent relapse (38). |
referral for individual and relationship therapy if functioning or insight remains seriously impaired.

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