First-time mothers: social support, maternal parental self-efficacy and postnatal depression

Patricia Leahy-Warren, Geraldine McCarthy and Paul Corcoran

Aims and objectives. To examine the relationships between social support, maternal parental self-efficacy and postnatal depression in first-time mothers at 6 weeks post delivery.

Background. Social support conceptualised and measured in different ways has been found to positively influence the mothering experience as has maternal parental self-efficacy. No research exists which has measured the relationships between social support, underpinned by social exchange theory and maternal parental self-efficacy using a domain-specific instrument, underpinned by self-efficacy theory and postnatal depression, with first-time mothers at 6 weeks post delivery.

Design. A quantitative correlational descriptive design was used.

Method. Data were collected using a five-part questionnaire package containing a researcher developed social support questionnaire, the Perceived Maternal Parental Self-Efficacy Scale and the Edinburgh Postnatal Depression Scale. Four hundred and ten mothers completed questionnaires at 6 weeks post delivery.

Results. Significant relationships were found between functional social support and postnatal depression; informal social support and postnatal depression; maternal parental self-efficacy and postnatal depression and informal social support and maternal parental self-efficacy at 6 weeks post delivery.

Conclusion. Nurses and midwives need to be aware of and acknowledge the significant contribution of social support, particularly from family and friends in positively influencing first-time mothers’ mental health and well-being in the postpartum period. The development of health care policy and clinical guidelines needs to define and operationalise social support to enhance maternal parental self-efficacy.

Relevance to clinical practice. These findings suggest that nurses and midwives need to be cognisant of the importance of social support for first-time mothers in both enhancing maternal parental self-efficacy and reducing postnatal depressive symptomatology in the early postpartum period.

Key words: first-time mothers, maternal parental self-efficacy, post delivery, postnatal depression, social exchange theory, social support

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Introduction

This paper is based on a larger research study which examined social support, maternal parental self-efficacy and postnatal depression in first-time mothers at three time periods and explored the relationship between these variables. Becoming a mother for the first time is a major developmental transition of adulthood (Harwood et al. 2007) and change is an inevitable element of that process. Previous research indicates that social support facilitates the transition to motherhood (Bloomfield et al. 2005). The transition is also influenced by mothers’ own beliefs in their capabilities as new mothers. These factors can influence mothers’ maternal mental health and well-being (Choenerom et al. 2005).

Social support

Background

International and National Policy documents suggest that support is necessary for maternal and infant well-being (Commission on the Family 1998, World Health Organisation 2005) and facilitates women’s adaptation to motherhood (Schachman et al. 2004). In previous research, mothers in the postnatal period have reported that help received from their husbands and mothers, both with household chores and infant care, to be of great importance to them (Haggman-Laitila 2003) Providing support for mothers in caring for their infants in the postnatal period is an important concern for nurses and midwives, because previous research has shown that social support can facilitate women’s transition to motherhood (Logsdon & Davis 2003, Wilkins 2006), some of whom find the transition psychologically stressful (Leahy-Warren & McCarthy 2007). Social support has been investigated with new mothers in the postpartum period, both from mothers’ perspective (Bullock et al. 2002) and from healthcare delivery perspective (Tarkka et al. 1999). However, some studies lack a clear definition of social support; there is a variety of measurement instruments some of which lack conceptual and empirical underpinnings; and as Logsdon et al. (1996) argue some do not clearly demonstrate validity and reliability in the context of new motherhood. Based on the literature, particularly that of House (1981), the theoretical definition of social support for this study is the combination of social structures and social functions, where social structures demonstrate cohesiveness and there is a flow of emotional concern, instrumental aid, information and appraisal between people.

Maternal parental self-efficacy

Parental self-efficacy is beliefs a parent holds of their capabilities to organise and execute a set of tasks related to parenting a child. The attributes of parental self-efficacy have been identified as personal beliefs; capabilities and power; ability to organise and execute actions which produce results; and are situation-specific. Parental efficacy is key to enhancing parenting and supporting parents in their parenting role (Bloomfield et al. 2005). Parental self-efficacy has been found as a mediator between mothers’ experience with older children, education and satisfaction with parenting (Coleman & Karraker 2000), a mediator between social support and conflict for mothers (Erdwins et al. 2001). It has also been found to influence healthy parenting practices (Finlayson et al. 2007). Research with mothers in the postpartum period specifically using Bandura (1997) theory of self-efficacy was found to support this theory. Results from Froman and Owen (1990) showed that maternal age and number of children were among the strongest predictors of maternal parental self-efficacy, demonstrating previous and vicarious experience. Hudson et al. (2001) findings revealed that mothers peaked earlier than fathers in relation to parental self-efficacy scores. Findings from research by Teti and Gelfand (1991) indicated that maternal parental self-efficacy improved over time, was positively associated with parenting competence and negatively related to depression. Results from Cutrona and Troutman (1986) and Reece (1992) research established a negative association between maternal parental self-efficacy and depression, thus supporting a further two principles of Bandura’s theory. Kapp (1998) found that multiparas had higher confidence with infant care practices than primiparas and research by Leahy-Warren (2005) revealed that appraisal support was significantly related to maternal confidence with infant care practices. The findings from the latter two studies support Bandura’s theory of self-efficacy in that vicarious experience increases self-efficacy as does verbal persuasion. Furthermore, qualitative studies with new mothers in the postpartum period identified themes such as the importance of self confidence (Hall Moran et al. 2006) and fear of self doubt (Wilkins 2006), which Bandura (1997) attributes to low self-efficacy. A limitation identified in previous research was the paucity of domain specific measures of maternal parental self-efficacy in the context of early motherhood and infant care practices (Barnes & Adamson-Macedo 2007).

Whilst very few studies have explored the potential impact of maternal parental self-efficacy on postnatal depression, it seems logical that a relationship may exist between these two concepts. Given that Bandura (1986) postulates that an individual’s sense of self-efficacy operates to reduce perceptions of reactions to stress and depression, it seems reasonable that the more a mother feels able to successfully handle the demands of new motherhood, the less is her experience of stress and depression.
Postnatal depression

Postnatal depression and postnatal depression symptoms can compromise maternal functioning and the developing mother–infant relationship in early motherhood at this crucial time (Beck 1995). Despite its relatively high incidence, postnatal depression can be difficult to detect, in part because new mothers are often reluctant to report depressive symptoms to health care professionals. The most significant factor in the duration of postnatal depression has been found to be the length of delay to early recognition and adequate treatment. Effective interventions for postnatal depression and postnatal depression symptoms need to be initiated as soon as possible, therefore early detection is imperative for this to be realised.

Numerous studies reveal a prevalence of postnatal depression in the community at between 10–15% (Brown & Lumley 2000). There are strong indications that postnatal depression can have long-term adverse effects on the cognitive and emotional development of the child (Sinclair & Murray 1998). In the literature, mothers with postnatal depression describe feelings of loss, such as loss of control (Beck 1992, 1993, Ugarriza 2002, Chan & Levy 2004) or loss of former identity (Nicolson 1990). Postnatal depression differs from general depression from the perspective of timescale (Evans et al. 2001) and in the context of role transition, the loss of familiarity, loss of control and the need to feel normal (Scandris 2005). Evidence-based treatments include antidepressants (Wisner et al. 1989) as a member of a group or telephone contact (Holden et al. 1989) as a member of a group or telephone contact (Logsdon & Davis 2004). While postnatal depression has been measured in the postnatal period and associated with social support and maternal parental self-efficacy, no study exists which measured social support underpinned by social exchange theory, maternal parental self-efficacy underpinned by self-efficacy theory and postnatal depression with first-time mothers only at 6 weeks post delivery.

There is the need for further research to be undertaken measuring social support underpinned by social exchange theory, which necessitates the inclusion of measuring both the structural and functional dimensions of social support in the context of infant care practices. Maternal parental self-efficacy needs to be measured using a domain-specific instrument underpinned by self-efficacy theory and postnatal depression measured using an appropriate validated instrument. Furthermore, there is a need to examine the relationships between social support, maternal parental self-efficacy and postnatal depression for these variables with first-time mothers only. The purpose of this research was to examine the relationship between social support, maternal parental self-efficacy and postnatal depression in first-time mothers at 6 weeks post delivery.

Conceptual framework

The conceptual framework (Fig. 1) supporting the research is underpinned by social exchange theory (Homans 1961, Blau 1964) and Bandura’s theory of self-efficacy (Bandura 1997). Social exchange theory is concerned with the exchange of activity (Homans 1961, Blau 1964) between at least two people. Social support was conceptualised in terms of both structural (sources of support) and functional components (informational, instrumental, emotional and appraisal) and were treated as two variables of the construct social support (House 1981). Maternal parental self-efficacy is defined as mothers’ beliefs about their ability to be successful in the parenting role. Postnatal depression is defined as a psychosocial phenomenon occurring within 12 months post delivery.

Methods

Design

A descriptive correlational design was used (Polit & Beck 2004).

Instruments

Socio-demographic data were collected on both mothers and their infants.

Social support was measured by a researcher developed instrument in terms of structural and functional dimensions (Fig. 1). This instrument was developed directly from a large body of literature and used a conceptual framework based on Homans’s (1961) and Blau’s (1964) social exchange theory. In devising the functional dimensions of social support, which are informational, instrumental, emotional and appraisal, an extensive list of 122 items for this part of the questionnaire was generated from the literature and previous research undertaken by this researcher (Leahy-Warren 2005). This list was then reviewed independently by four experienced nurses/midwives to eliminate repetition. The experienced nurses/midwives function as faculty or clinicians in the area of maternal-child health. The revised list containing 37 items were returned to the four nurses/midwives to rate each item on the questionnaire as appropriate or inappropriate in representing social support functional dimensions in the postpartum period. The agreed items for the final questionnaire were 16 questions, where each functional dimension
was measured using 4 questions. With regard to structural social support, using the conceptual framework (Fig. 1) underpinned by social exchange theory and the literature, the individuals in first-time mothers’ social networks’ sources were identified. A pilot study was carried out with respondents’ ($n = 20$) to test the face validity of the instrument. In this study the Cronbach’s alpha coefficient was 0.80.

Maternal parental self-efficacy was measured using the perceived maternal parental self-efficacy tool (PMP S-E) (Barnes & Adamson-Macedo 2007). The PMP S-E is a 20 item four-point Likert Scale comprising of four theorised subscales. Content validity was assessed using the literature, the researchers’ expertise, adaptation of previous similar instruments and rated by mothers in the postpartum period. Construct validity was assessed and confirmed using three methods: Exploratory factor analysis; comparison of contrasted groups and divergent–construct validity. Based on a sample of 160 healthy and hospitalised mother-preterm dyads, the instrument demonstrated internal consistency of 0.91. In this study the Cronbach’s alpha coefficient was 0.89.

Postnatal depression was assessed using the Edinburgh Postnatal Depression Scale (EPDS) (Cox et al. 1987), which is a 10-item, self-report instrument designed as a screening questionnaire to detect postnatal depression. Cox and Holden (2003) suggest that using a cut-off of 9/10 is likely to detect all cases of depression. However, they recommend a cut-off of <12 in a primary care setting using a postal questionnaire, as a cut-off less than this may be over-inclusive. In this study a cut-off of $>l = 11$ was used to assess for postnatal depression. The sensitivity and specificity of the EPDS have been assessed repeatedly and reported by Cox and Holden (2003). According to Cox and Holden (2003) for detection of major depression, its sensitivity ranged from 67–100% and specificity from 68–94%. For minor depression, sensitivity ranged from 52–73%. When both the detection of minor and major depression was combined, the EPDS’ sensitivity ranged from 68–80% and specificity was 77%. In this study the Cronbach’s alpha coefficient was 0.88.

Sample
The sampling frame used was first-time mothers whose baby was born in a large maternity unit in the Republic of Ireland. Eligibility criteria for selection were: first-time mother; 18 years and over; medically uncomplicated pregnancy or delivery full term at delivery; singleton baby; Baby discharged with mother; English as first language; white Caucasian. Based on an expected prevalence of PND of 12%, the sample size required to estimate the prevalence with a 3% margin of error with 95% confidence was 447.

Procedure
The Teaching Hospitals Ethics Committee gave approval to conduct the research. Participants were informed of the study by maternity staff and gave informed consent when the
Maternal parental self-efficacy was determined by the total score of the PMP S-E, which ranged between 20–80 overall where the higher the score the higher the self-efficacy. Postnatal depression was determined by the total score on the EPDS. The cut-point of 11 recommended by Cox et al. (1987) was applied to distinguish between those at high risk of PND (score > 11) and those at moderate risk (score ≤ 11).

The chi-square non-parametric test was used to assess the relationship between variables. Pearson’s product-moment correlation coefficient was used to measure the linear relationship between continuous variables, but Spearman’s rank correlation coefficient was used in cases where the assumption of normality of the data was not met. Cohen’s (1988) guidelines were used for interpreting the strength of the correlation. An $r$ from 0.10–0.29 represents a small or weak correlation, ‘$r$’ from 0.30–0.49 represents a medium or moderate correlation, ‘$r$’ from 0.50–1.00 represents a large or strong correlation.

Results

Socio-demographic characteristics of participants

Demographic data revealed 33.6% of respondents were in the 31–35 year age category and 30.1% in the 27–30 year category. Twenty percent of respondents were educated to secondary school level and a further 72% to University/third level. One fifth (20%) stated their occupation in the category ‘clerical’; 17% in the category ‘associate professionals’; 9.5% in the category ‘health associate professionals’; 8.7% in the category ‘health and education professionals’ and remainder in the category ‘managers and proprietors’. In relation to living arrangements, respondents reported living with their husband 64% ($n = 305$), partner 23% ($n = 110$), parents 7% ($n = 49$) or alone 4% ($n = 16$). The average stay in hospital was 3–6 days. A greater number of vaginal deliveries (68%, $n = 258$) than caesarean sections (33%, $n = 128$) were reported among respondents.

Descriptive analysis of social support, maternal parental self-efficacy and postnatal depression

The vast majority of respondents reported informal social networks (i.e. family and friends) as their main sources of support (mean = 4.94 SD 1.8) with fewer participants indicating receiving formal support (health professionals) (mean = 0.74 SD 0.44) in caring for their infant in the first 6 weeks post delivery. The persons most frequently identified by mothers as having provided support were own mothers, husbands/partners and sisters. Functional social support was measured using a 22 item four-point Likert

Table 1 Questionnaires scores

<table>
<thead>
<tr>
<th>Social support functional</th>
<th>Minimum score</th>
<th>Maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informational</td>
<td>7</td>
<td>28</td>
</tr>
<tr>
<td>Instrumental</td>
<td>7</td>
<td>28</td>
</tr>
<tr>
<td>Emotional</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Appraisal</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>Total functional social support</td>
<td>22</td>
<td>88</td>
</tr>
<tr>
<td>Structural social support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Informal social support</td>
<td>Yes/no</td>
<td></td>
</tr>
<tr>
<td>Formal social support</td>
<td>Yes/no</td>
<td></td>
</tr>
<tr>
<td>PMP S-E</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>EPDS</td>
<td>0</td>
<td>30</td>
</tr>
</tbody>
</table>

scale with a total possible minimum score of 22 and maximum score of 88. In this study the Cronbach’s alpha coefficient for the social support scale was 0.80. With regard to functional social support for first-time mothers at 6 weeks, the mean total functional social support score for 398 women was 68.3 (SD 8.9) with a range from 47–88. This means that overall mothers indicated that they received high levels of the different types of support. For individual scales the scores were varied. The mean functional informational social support score for the women (n = 396) was 20.2 (SD 3.6); instrumental social support (n = 392) was 21.3 (SD 3.7); emotional support (n = 402) was 13.6 (SD 2.0) and appraisal support was 13.1 (SD 2.0). These findings indicate that mothers received high levels of all four functional supports.

With regard to maternal parental self-efficacy, the mean score on the PMP S-E tool (Barnes & Adamson-Macedo 2007) was 65.9 (SD 8.2) (range 32–80) and the median was 60, indicating a high level of maternal parental self-efficacy for respondents. In this study the Cronbach’s alpha coefficient for the PMP S-E was 0.89. Postnatal depression was determined in this study by respondents’ score on the EPDS scale (Cox et al. 1987). In this study the Cronbach’s alpha coefficient for the EPDS was 0.88. The majority of respondents scored between 0–12 with the mean of 7.2 (SD 4.4). A prevalence rate of 13.2% (95% CI: 9.8–16.6%) was found with a confidence interval of 95%. All support measures correlated negatively and highly statistically significantly with postnatal depression scores (Table 2) although the strength of the correlations would be considered weak or moderate. As can be seen from Table 2, total functional social support represents a moderate correlation with postnatal depression.

Relationship between informal social support and maternal parental self-efficacy

Results revealed a statistically significant correlation between informal structural social support and maternal parental self-efficacy at 6 weeks post delivery (r = 0.21, p < 0.001).

Table 2 Correlations between support measures and postnatal depression scores

<table>
<thead>
<tr>
<th>Support measure</th>
<th>Correlation coefficient, r</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total functional social support</td>
<td>-0.43</td>
<td>p &lt; 0.001</td>
</tr>
<tr>
<td>Informational support</td>
<td>-0.29</td>
<td>p &lt; 0.001</td>
</tr>
<tr>
<td>Instrumental support</td>
<td>-0.33</td>
<td>p &lt; 0.001</td>
</tr>
<tr>
<td>Emotional support</td>
<td>-0.40</td>
<td>p &lt; 0.001</td>
</tr>
<tr>
<td>Appraisal support</td>
<td>-0.41</td>
<td>p &lt; 0.001</td>
</tr>
<tr>
<td>Informal structural social support</td>
<td>-0.20</td>
<td>p &lt; 0.001</td>
</tr>
</tbody>
</table>

Relationship between maternal parental self-efficacy and postnatal depression

There was a statistically significant relationship between maternal parental self-efficacy and postnatal depression (χ² = 18.26, df = 2, p < 0.001).

Relationship between total functional social support and subscales and postnatal depression

There was a statistically significant inverse relationship between total functional social support and postnatal depression (r = -0.43, p < 0.001) at 6 weeks and between informational support and postnatal depression (r = -0.29, p < 0.001) and between instrumental support and postnatal depression (r = -0.33, p < 0.001) and between emotional support and postnatal depression (r = -0.40, p < 0.001) and between appraisal support and postnatal depression (r = -0.41, p < 0.001).

Discussion

The research used was a quantitative descriptive correlational design. The outcomes of previous qualitative research and quantitative descriptive studies using insufficient samples suggested the need for the current design to enhance the body of knowledge necessary to underpin improving support services to mothers. Consequently, a conceptual framework was developed to support a study design which explored the broader applicability of substantive theory particularly on social support and maternal parental self-efficacy in the postnatal period using a large sample. The major finding of this study was the significance of family support in enhancing maternal parental self-efficacy and positively influencing mental health for first-time mothers at 6 weeks post delivery. There was a significant association between informal social network (family and friends) support and maternal parental self-efficacy at 6 weeks post delivery. While there is support in the literature that social support enhances self-efficacy (Jones & Prinz 2005), only one prior and recent study identified maternal support being significantly related to maternal parental self-efficacy in the context of the postpartum period for first-time mothers (Haslam et al. 2006). The present research enhances Haslam’s et al.’s (2006) findings, in that women in this research identified their maternal mother as the parental person identified most
frequently by respondents as having provided them with all four types of social support. It is likely that support from own mothers increases maternal parental self-efficacy in two ways. Maternal mothers may provide vicarious experience relating to infant care and verbal encouragement, two major influences identified by Bandura as ways of increasing maternal parental self-efficacy. In a previous, but older study, Cutrona and Troutman (1986) found that social support exerted a protective function indirectly by enhancing parenting efficacy beliefs. Cutrona and Troutman (1986) used a general measure of social support and found maternal parental self-efficacy was a mediator between social support and postnatal depression. However, similar to this study findings, Teti and Gefland (1991) demonstrated that higher self-efficacy was positively associated with marital support and negatively with maternal depression. Hence findings from this study extend previous research in that mothers in this study have identified the informal social network sources that provided them with the different types of functional supports. Moreover, this study outcomes support two principles of Bandura’s theory of self-efficacy: that social persuasion in the guise of informal support positively influences parenting self-efficacy and that psychosocial variables such as depression have inverse relationships to self-efficacy. It is therefore important for first-time mothers to have high levels of maternal parental self-efficacy because both previous research and this research has demonstrated that mothers with higher maternal parental self-efficacy in the early postnatal transition period have increased ability in parenting and better mental health outcomes one year after delivery (Reece 1992).

Results showed that lower levels of social support were related to higher rates of postnatal depression in the postpartum period which is consistent with previous studies (O’Hara & Swain 1996, Glasser et al. 2000, Inandi et al. 2002, Surkan et al. 2006, Ege et al. 2008, Gao et al. 2008). What this research adds to previous research relates to the measurement of social support. In this research, both social structural support and functional social support were independently and inversely related to postnatal depressive symptomatology. Furthermore, differentiation was also made between support received from different social network sources and the types of functional support in the context of the postpartum period. In this study, functional social support was significantly related to postnatal depression as was each individual dimension of functional social support at 6 weeks post delivery. This is a new finding and means that mothers who independently received informational support, instrumental support, emotional support and/or appraisal support were less likely to experience postnatal depressive symptomatology at 6 weeks post delivery. Therefore, a high level of support from family and friends was related to lower symptoms of depression at 6 weeks. With increasing levels of informal structural support, the prevalence of depression decreased. Compared to those with high levels of support, the odds of being depressed was nearly twice that with medium support and nearly four times higher in those with low support. The majority of mothers identified partners, own mothers and friends as providing them with all four types of social support. This finding is consistent with previous research where partner support had a significant effect in reducing postnatal depression (p = 0.013) (Misri et al. 2000) as did peer support (Dennis 2003).

In this study, there was no evidence of an association between professional support and postnatal depressive symptomatology. Perhaps this is not surprising in that the time mothers spent in hospital was limited to an average of just over three days. In their systematic review Shaw et al. (2006) found no evidence that universal postpartum support is of benefit to mothers, however, there was evidence that mothers at high-risk of postnatal depression would benefit from health professional home visits and peer support. Similar findings have been reported from research using randomised controlled trials where the intervention was frequent professional support visits (Armstrong et al. 1999, MacArthur et al. 2002). Whilst the measure of social support in these studies were universal as opposed to context specific as in this study, it is likely that the weekly home nurse visits to mothers included elements of social exchange theory, specifically the length of the relationship and frequency of contact, perception of support available including the functional dimensions of information, instrumental, emotional and appraisal support. Previous research in this area frequently operationalised social support as either professional or paraprofessional support without delineating the structural and functional dimensions and thus comparisons are difficult. These findings further support the elements of social exchange theory in strengthening the ties of first-time mothers’ social network. Social support as it is conceptualisation in this research, contributes significantly to first-time mothers’ psychological well-being in the first 6 weeks post delivery. These results further reinforces the importance of measuring more than one dimension of social support in the postpartum in identifying both the sources and types of support that are strongly linked to protecting women’s health in the postnatal period (Haslam et al. 2006, Ege et al. 2008). This may be due to the multidimensional and context specific measures of social support used in this study as opposed to the general measure in previous studies.
Conclusion

In summary, significant relationships were found between functional social support and postnatal depression; informal social support and postnatal depression; maternal parental self-efficacy and postnatal depression and informal social support and maternal parental self-efficacy at 6 weeks post delivery. In devising individualised nursing and midwifery care plans for new mothers at risk of postnatal depression, consideration needs to be given to mobilising social support, both functional and structural dimensions. Social support interventions need to reflect the dimensions as conceptualised in this research and specific to new mothers in the context of infant care practices in the postnatal period. Furthermore, enhancing maternal parental self-efficacy for first-time mothers in the 6 weeks post delivery is significant in positively influencing their mental health and well-being. The significance of maternal mothers and partners giving social support to first-time mothers in enhancing maternal mental health and the promotion of maternal parental self-efficacy in nursing and midwifery care plans is essential.

Relevance to clinical practice

Recommendations for clinical practice include the necessity for nurses and midwives to emphasise the importance of family, particularly their partner and own mothers as providers of social support in the postnatal period. Furthermore, nurses and midwives need to understand the concept of social support and empower mothers to mobilise support. In the community setting nurses could provide anticipatory guidance for new mothers, such as organising peer-support group forums, to facilitate vicarious experience, as it is also recognised as a maternal parental self-efficacy enhancement strategy. This will help to normalise maternal anxiety, stress and fatigue, cognisant of the realities of first-time motherhood and also provide a forum for early detection of postnatal depression.

Limitations

As this was a quantitative study, mothers’ in-depth perceptions and experiences of social support, maternal parental self-efficacy and postnatal depression have not been explored from their frame of reference. Furthermore, a convenience sample was selected due to time constraints and in an effort to obtain a large number of respondents with consideration for tests of statistical significance. A random sample may have provided a group with differing support needs, maternal parental self-efficacy levels and rates of postnatal depression.

Acknowledgements

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Contributions

Study design: PL-W, GMC; data collection and analysis: PL-W, PC and manuscript preparation: PL-W, GMC, PC.

Conflict of interest

None.

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