کارگاه‌های آموزشی مرکز اطلاعات علمی

- مقاله نویسی علوم انسانی
- اصول تنظیم قراردادها
- آموزش مهارت های کاربردی در تدوین و چاپ مقاله
Comparing the Postpartum Quality of Life Between Six to Eight Weeks and Twelve to Fourteen Weeks After Delivery in Iran

Nosrat Bahrami 1; Zahra Karimian 2; Somayeh Bahrami 3, Nahid Bolbolhaghighi 4, 7

1 Department of Midwifery, Dezful University of Medical Sciences, Dezful, IR Iran
2 Department of Reproductive Health, Shahroud University of Medical Sciences, Shahroud, IR Iran
3 Department of Statistics, Dezful University of Medical Sciences, Dezful, IR Iran
4 School of Nursing and Midwifery, Shahroud University of Medical Sciences, Shahroud, IR Iran
*Corresponding Author: Nahid Bolbolhaghighi, School of Nursing and Midwifery, Shahroud University of Medical Sciences, Shahroud, IR Iran. Tel: +98-6416269532; Fax: +98-6416269041; E-mail: farzaneh_d_d@yahoo.com

Received: December 25, 2013; Revised: March 3, 2014; Accepted: April 9, 2014

Background: Women during the postpartum period experience many physiological, psychological, and social changes. Quality of life (QOL) is a sense of well-being and arises from satisfaction or dissatisfaction with various aspects of life including health, employment, socioeconomic state, psychological-emotional state, and family. Moreover, QOL is an important criteria for assessing healthcare system.

Objectives: The purpose of this study was to compare the postpartum QOL between six to eight and 12 to 14 weeks after delivery in women referred to public health centers in Dezful City, Iran, in 2011.

Materials and Methods: This study was a longitudinal study. The study participants were 150 postpartum women referred to public health centers. Quota method was used for sampling. Data collection tools in this study were demographic questionnaire, Edinburgh Postnatal Depression Scale (EPDS), short form health survey questionnaire (SF-36), and Specific Quality of Life after Delivery Questionnaire. Data were analyzed using SPSS.

Results: The results showed that the mean scores of various dimensions of the SF-36 were significantly higher at 12 to 14 weeks than at six to eight weeks (P < 0.001). The postpartum mean depression score was significantly higher at six to eight weeks than at 12 to 14 weeks (P < 0.001). The mean score of QOL questionnaires at 12 to 14 weeks were increased in all dimensions in comparison with six to eight weeks; however, this increase was significant only in dimension of the mother’s feelings toward herself, her husband, and others (P < 0.001).

Conclusions: Because enormous changes develop in postpartum women, we suggest supportive measures for mother by her mother-in-law, family, and caregivers to improve the QOL and health status of the mother and her child.

Keywords: Quality of Life; Postnatal; Depression

1. Background

Quality of life (QOL) is a multidimensional concept that affects performance of the individual in physical, psychological, social, and spiritual aspects of life and can be affected by political, cultural, economic, and spiritual beliefs (1). World Health Organization (WHO) definition of QOL includes six dimensions: physical health; psychological-emotional status; level of independence; social relationships; spiritual dimensions; and environmental situation. In a general definition, QOL is the effect of the physical and social environment on individual and ontological and emotional reactions to this environment (2).

According to the WHO definition, QOL is the people’s perception of their position in life in context of culture and value systems that they live and in relation to the goals, expectations, communication, needs, and beliefs. Determining life concept and measuring QOL is important for public health policy, research, evaluation, and clinical decision-making (3). QOL is a sense of well-being and arises from satisfaction or dissatisfaction with various aspects of life, and includes areas such as health, employment, socioeconomic status, psychological-emotional status, and family (4).

QOL is an important indicator of the quality of healthcare (5). As a part of disease control programs (6), QOL should be measured from different perspectives. Assessment of QOL is important for making social as well as medical and clinical decisions (7). Several factors affect the QOL such as delivery and physical, mental, and social factors (8). Women during the postpartum period experience many physiological, social, and psychological changes; therefore, they need more attention during this period (9). In recent years, experts have become aware of the importance of the healthcare in delivery (10) because only a few women were healthy in postpartum studies (11). Less attention is drawn toward the mothers’ problems such as fatigue, back pain, itching in cesarean incision, and other factors.
perineal pain, and hemorrhoids and women have to adapt to these problems. In addition, these problems have a significant effect on the physical, emotional, and social health, breastfeeding, relationships with family, community, and childcare, and housework (12). This problem affects both mothers’ and children’s health (13). One of the objectives of the WHO was promoting maternal health status and reducing morbidity and mortality rates by 2010. According to WHO statistics, the highest maternal mortality and morbidity are seen in postpartum period (14). Studies in Australia and the United States showed that more than 50% of women had mental health problems in the first year after delivery (15, 16). A study conducted in the United States showed a significant decrease in postpartum QOL score in the physical-emotional dimension (17).

The postpartum period is an important time for a mother, her newborn, and her family. Women problems may increase during the postpartum period (18, 19) and these changes might affect mother’s well-being (20). Additionally, women reports considerable limitations in their abilities at work as well as at home even up to six months after delivery (21).

Assessing QOL in this period will allow a woman to make a self-evaluation of her own postpartum situation and will assist healthcare providers with further promotion of women’s and infants’ health (22). Variety of medical, psychological, social, and obstetric factors might affect the QOL after delivery. Mothers’ negative perception of their own health may have a negative effect on their infant-care behaviors. The mothers’ health after childbirth can affect their children’s health (23).

2. Objectives

Considering the importance of the postpartum QOL and the limited researches in this area, we aimed to compare postpartum QOL between six to eight and 12 to 14 weeks after delivery in women referred to public health centers in Dezful City, Khuzestan province, Iran, in 2011.

3. Materials and Methods

This study was a longitudinal study. The study participants were 150 postpartum women referred to public health centers of Dezful city, Iran. Sample size was calculated by the following formula:

\[ N = \frac{(z_{\alpha/2} + z_{\beta})^2 (\sigma_1^2 + \sigma_2^2)}{d^2} \times (m - 1) \times 0.7 \]

Where \( \alpha = 0.05, z_{\alpha/2} = 1.96, \beta = 0.20, z_{1 - \beta} = 0.84, d = 0.05, \) and \( m = 2. \)

Women who had delivered a single live child were enrolled in the study if they met the following criteria: postpartum women at six to eight weeks who aged between 18 to 35 years, were literate, and received prenatal care. In addition, women with the following condition were excluded: stillbirth or abnormal birth, difficult delivery, birth weight of less than 2500 g, a history of abortion or any medical illness, medical complications of pregnancy, history of infertility, depression, drug use, and stress, or family problems. Quota sampling method was used for recruiting participants. Following explaining the study protocol and purpose, a written informed consent was signed by the participants. The Ethics Committee of Dezful University of Medical Sciences approved the study protocol. Data collection tools in this study were demographic questionnaire, Edinburgh Postnatal Depression Scale (EPDS), short form health survey questionnaire (SF-36), and Specific Quality of Life after Delivery Questionnaire (SQOLAD).

The EPDS questionnaire was developed to screen postpartum depression. This questionnaire includes ten questions concerning common symptoms of depression and the total sum of the scores is 30 (24). A total score of ten or higher were considered as depression. The SF-36 includes eight dimensions with the sum general score in each dimension ranging from zero and 100; a higher score indicates better health status (25). SQOLAD includes 30 questions in eight different dimensions; the general score in each dimension ranges from zero to 100 with higher scores indicating better health status (26).

<table>
<thead>
<tr>
<th>Group Characteristics</th>
<th>Value</th>
<th>Median</th>
<th>IQR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age of Mothers, y</td>
<td>30.4</td>
<td>26.5</td>
<td>11.25</td>
</tr>
<tr>
<td>Age of Husbands, y</td>
<td>29.3</td>
<td>24.3</td>
<td>7.64</td>
</tr>
<tr>
<td>BMI, kg/m²</td>
<td>24.3 ± 4.6</td>
<td>23.5 ± 4.6</td>
<td>4.32</td>
</tr>
<tr>
<td>Occupation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housewife</td>
<td>124 (82.6)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Employed</td>
<td>26 (17.4)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Woman’s Educational Years</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 12</td>
<td>98 (65.3)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt; 12</td>
<td>52 (34.7)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Spouses’ Educational Years</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 12</td>
<td>44 (29.3)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt; 12</td>
<td>106 (70.7)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Social-Economical status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good</td>
<td>36 (24)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Intermediate</td>
<td>114 (76)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fertility Mode of Delivery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vaginal Delivery</td>
<td>90 (60)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cesarean Section</td>
<td>60 (40)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gender of Neonate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>72 (48)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Male</td>
<td>78 (52)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

a Data are presented as mean ± SD and No. (%).
b Abbreviations: BMI, body mass index; IQR, interquartile range.
The EPDS, SF-36, and SQOLAD were validated using content validity method; reliability of these questionnaires was obtained by test-retest method in which 0.85, 0.81, and 0.78 were obtained for these tests, respectively (26-29). In this study, questionnaires were completed by face-to-face interview at six to eight weeks after delivery. Then we requested the mothers to come back during 12 to 14 weeks after delivery to complete the same questionnaires. Data were analyzed by SPSS (SPSS Inc., Chicago, IL, USA) using paired-samples t test, Chi square, Mann-Whitney U, and Wilcoxon ranked tests. Statistical significance was determined at P < 0.05.

4. Results

In this study, the majority of women were homemakers (84%), and the majority of their husbands were self-employed (64.6%). The education level of the majority women and their husbands was high school (68.3% and 62.3%, respectively), and 56.5% had normal vaginal delivery. Other demographic characteristics of subjects are shown in Table 1.

The mean score of postpartum depression in women at six to eight weeks was significantly higher than their mean score at 12 to 14 weeks (P < 0.001). Various aspects of SF-36 scores in six to eight weeks and 12 to 14 weeks are shown in Table 2. Various aspects of health questionnaires were significantly higher in 12 to 14 weeks than in six to eight weeks (P < 0.001). The mean score for the physical performance of women after six to eight weeks was the highest score among different dimensions of SF-36 and showed a very good level of physical performance. The mean scores for empowerment of women at six to eight weeks after delivery were the lowest scores among the different dimensions of the SF-36 and showed poor quality of empowerment. Similarly, a research conducted in the Netherlands showed that the mean physical function score of postpartum women at six weeks was the highest score (8). On the other hand, studies in Canada indicated that physical function scores were higher in women after delivery, which was contrary to our results (25). The reason for this difference might be participation of pregnant women with more than one delivery in Canadian study; in other words, pregnant women with more than one delivery may be familiar with changes during pregnancy and after delivery and are more likely to improve their physical performance. Research conducted in the United States showed that empowerment scores after delivery were reduced, which is in line with the results of the present study (17).

5. Discussion

The results of this study showed that mean depression score decreased significantly from six to eight weeks to 12 to 14 weeks after delivery. Other studies conducted in Iran have shown similar results (28). Postpartum depression has negative effect on daily function and QOL of both mother and infant. Mothers with depression may be emotionally away from their baby due to physical and psychological stress during labor and baby support can be difficult for them (30, 31).

On the one hand, because postpartum depression is associated with impaired QOL (32, 33), taking care of the mother during pregnancy and postpartum period is necessary. The mean score for the physical performance of women at six to eight weeks after delivery was the highest score among the different dimensions of SF-36, which indicated a very good level of physical performance. The mean scores for empowerment of women at six to eight weeks after delivery were the lowest scores among the different dimensions of the SF-36 and showed poor quality of empowerment. Similarly, a research conducted in the Netherlands showed that the mean physical function score of postpartum women at six weeks was the highest score (8). On the other hand, studies in Canada indicated that physical function scores were higher in women after delivery, which was contrary to our results (25). The reason for this difference might be participation of pregnant women with more than one delivery in Canadian study; in other words, pregnant women with more than one delivery may be familiar with changes during pregnancy and after delivery and are more likely to improve their physical performance. Research conducted in the United States showed that empowerment scores after delivery were reduced, which is in line with the results of the present study (17).

Considering that fatigue constitutes up to 67% of postpartum symptom, achieving such results is justifiable (34); however, in studies in Canada and the Netherlands, women empowerment scores after delivery were high, which is contrary to our results (8, 25). The cause of this difference might be the participation of pregnant women...
in prenatal education classes, exercise during pregnancy, provided support from their husbands, and cultural differences. According to our study, the mean QOL scores after delivery was moderate. In research conducted in Turkey, the postpartum QOL was determined as moderate, which is similar to our results. In addition, supporting mother significantly improves the postpartum QOL (35).

The scores of all the different dimensions of SQOLAD were increased from six to eight weeks to 12 to 14 weeks after delivery; however, this increase was only significant in mother’s feelings toward herself, her husband, and others. Results of this study showed similar results in women who delivered via cesarean section; however, these results differed from the results of a study on women with vaginal delivery in which they only had increased sense of motherhood toward their child (26). The reason for this difference might be the presence of a large number of women with vaginal delivery and different socioeconomic status in this study. In our study, sampling strategy and inability to generalize finding to the target population were among the study limitation.

According to the results of this study, QOL in postpartum women was moderate. There are emotional, physiological, and social changes after delivery and eight weeks following delivery that will return to the baseline after a long time. We recommend taking protective measures by the mothers-in-law, families, and caregivers to improve QOL and health status of the mothers and their children.

Acknowledgements

We are indebted to all women and their families who took part in the project as well as the midwives and the staff for their collaboration in collecting the data.

Author’s Contributions

Design of the study: Nosrat Bahrami and Zahra Karimian. Analysis of data: Nosrat Bahrami. Methodology design of all sections of the study, the design of the study, coordination, performing all the research sections, and participating in manuscript preparation: Nosrat Bahrami, Zahra Karimian, and Somaye Bahrami. All authors read and approved the content of the manuscript.

References

15. Brown S, Lamnet J. Physical health problems after childbirth and maternal depression at six to seven months postpartum. BJOG. 2006;113(7):1194-201.
کارگاه‌های آموزشی مرکز اطلاعات علمی

مقاله نویسی علوم انسانی

اصول تنظیم قراردادها

آموزش مهارت های کاربردی در تدوین و چاپ مقاله