Background

According to WHO (World Health Organization), postpartum mental health has been reported as a major public health issue; at least one out of ten women experience serious mental disorders during pregnancy or one year after childbirth [1]. Depression in women is more common than men for reasons such as hormonal changes in the menstrual cycle, pregnancy and menopause [2]. Although pregnancy and childbirth are considered as physiological events which are pleasant in most cases, they are sometimes accompanied by mental side effects that can be dangerous for the mother and infant if ignored [2–5].

Postpartum depression may begin up to the first 4 weeks after childbirth, though some studies have reported its onset up to 12 months after childbirth [6]. The prevalence of postpartum depression in the first few weeks after childbirth has been reported to be 15%, and in specific situations, it has been reported to be up to 41% [7].

Depression with an adverse effect on the ability of the mother’s self-care may lead to problems such as inadequate nutrition, drug abuse and irregular visits to treatment centers [8]. Postpartum depression increases the risk of major depressive episodes in life [9]. This situation may affect the amount of maternal and infant attachment and other family relationships, and it may even threaten the safety and health of the mother, infant and other children [10, 11].

The prevalence of depression, especially postpartum depression, is closely related to cultural and social factors; therefore, its prevalence varies from country to country [12]. Society pays particular attention to the birth of children and their nurturing. Childbirth is also of fundamental importance for parents at the micro level of the family. There are many factors influencing the parents’ intention to have a child. Having a child is considered as a natural part of adult life, including raising and educating children, sharing a life with them and taking responsibility for their happiness and well-being. Individual motivations for having a child are related to family, emotional and social goals and thus provide socio-cultural factors, structural conditions and background factors for having or not having a child. These factors are also related to social beliefs and values about having children, the number of children, the individual acceptance of values and norms and cultural beliefs [13].

In Iranian society, children are traditionally considered to be divine gifts, and their presence is normal and anticipatory, while their absence has to be explained. In Iranian culture, proverbs such as ‘unmarried couples are like fruitless trees’ show that children are the center of the family and cause solidarity within the family structure [14].

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reproductive behaviors in different cultural contexts [13–16]. In fact, the concept of "value of children" is a cost-benefit model that helps to understand more intercultural differences, and it emphasizes the importance of social structure [17].

Studies categorized a child’s value in three dimensions, including emotional-mental values (e.g. having someone to love and take care of the child, the pleasure of watching children grow and having emotional relationships with one’s children), economic-utilitarian values (e.g. helping the household economy, helping out at home and helping an providing security when parents are old) and social-normative values (e.g. continuation of a generation and its surname and promotion of parental status among close relatives) [15, 16].

Studies show that in many cultures, the importance of the emotional dimension of a child’s value is independent of economic development [18]. Due to the impact of various factors, such as industrialization, modernization and increased income levels on the value of children, the importance of the dimension of the economic-utilitarian value of a child decreases every day [13]. Shahroush et al. concluded that the value of children in rural and urban households was not equal, while the variables of the economic, financial and security values of the child, defining oneself by one’s child’s position, family continuity, physical labor and sexual preferences affected the difference in the value of children in urban and rural areas. However, the economic attitude towards a child has become obsolete among rural households [19].

Considering the fact that the postpartum period can be so stressful that it causes psychological illnesses and with regard to the involvement of the cultural and social issues governing societies in the emergence of depression, we can find out whether the importance of a child’s value is involved in the incidence of postpartum depression or not. Since, despite the widespread search of data sources, there were no similar studies conducted in this area, it is hoped that this study will help to find one of the risk factors for postpartum depression.

Objectives

The purpose of this study was to determine the relationship between a child’s value and postpartum depression in women referred to health centers.

Material and methods

Study design

This study was a cross-sectional study conducted in 2015–2016 (11 months).

Study setting

This study took place in health centers affiliated with Bam University of Medical Sciences, Iran, by random sampling starting in winter 2015 and ending in fall 2016.

Study population

The study population consisted of all primiparous women referred to Bam healthcare centers in the south of the Kerman province.

Sample size estimation

During an extensive search of data sources, no similar study was found. After conducting a pilot study on 30 subjects, with a 95% confidence interval (α = 0.05) and the power of 80% (β = 0.2), the appropriate sample size was calculated as 260 cases. Taking into consideration 10% of the sample loss, 290 people were included in the study. Out of this number, 30 cases were excluded from the study due to not responding to at least 20% of the questions, and finally, 260 people were examined.

\[ N = \left( \frac{2 \sigma^2}{\Delta \mu^2} \right) + 3 \]

\[ C^\alpha = \frac{1}{2} \log \left( 1 + \frac{r}{1-r^2} \right) \]

Selection criteria

The study inclusion criteria are: Iranian women living in Bam city, 18–35 years of age, primipara women, having singleton infants, eight weeks postpartum, BMI less than 26 kg/m², not using medicine, not having chronic illness (underlying diseases including diabetes, cardiovascular disease, hypertension, epilepsy, migraine, thyroid disease, connective tissue disease, asthma, kidney disease, anemia), no history of abortion, no history of infertility or high risk pregnancy (hypertension in pregnancy and preeclampsia, eclampsia, bleeding, premature uterine contractions, fetal abnormalities, intrauterine growth restriction, placental abruption, placenta previa), no history of depression before pregnancy and during pregnancy, non-occurrence of life-threatening events (death of a family member, family member illness, financial problems, accidents, subjects or their spouse being fired or losing job, family disputes) over the past six months. The study exclusion criteria are: Occurrence of crisis or stressful incidence, woman’s desire to leave the study, preterm delivery, sick neonate, infant weight less than 2500 grams, having a history of emergency cesarean section and difficulty delivery.

Sampling technique

In the first step, a simple random sampling method was used to select three out of eight health centers in Bam city by drawing lots. Then two days of the week were selected randomly for sampling by drawing. The women eligible for the study were included by simple non-probabilistic sampling after explaining the goals and method of the study and obtaining written informed consent. The present study was conducted after obtaining the permission of the deputy research director, confirmation of the Ethics Committee, coordination with the city’s health centers, receiving a referral from the security center, presenting it to authorities of the healthcare centers and coordinating the time of distribution of the study tools.

Data sources/measurement

Women who were eligible for the study and who referred to the health center for vaccination of their two-month-old child completed an informed consent form before their child was vaccinated. The researcher, after examining the study inclusion and exclusion criteria and presenting the goals of the study, asked the study subjects to complete the Individual and Midwifery Information Questionnaire, Nauck and Troomsdorff (2005) Questionnaire of Value of Children and Edinburgh Postnatal Depression Questionnaire. The Individual and Midwifery Information Questionnaire included questions about individual characteristics and ob/gyn information in addition to disease records completed by the research unit.

The Nauck and Troomsdorff (2005) Questionnaire of Value of Children included 27 items and was measured by a 5-point Likert scale from “not at all important” to “very important”. The obtained results were categorized in three dimensions of emotional (5 items), economic (12 items), social-normative (10 items) Benefits. The score obtained in each dimension was determined based on the mean value. Higher scores indicated the value of more children in the relevant dimension. The validity of research using content validity and reliability of the method and internal consistency was determined by calculating Cronbach’s alpha (r = 0.85).
The Edinburgh Postnatal Depression Questionnaire was made from ten multiple-choice questions on a 4-point Likert scale, and each question had a score of 0 to 3. This standard questionnaire was confirmed for the evaluation of postpartum depression. A score 10 or more in this questionnaire showed postpartum depression, and a score of less than 10 indicated a normal person in terms of postpartum depression. The formal and content validity and reliability of the Persian version of this questionnaire was confirmed by Montazeri et al. in 2007 [20]. The test–retest reliability with a correlation coefficient of 0.80 was applied to confirm the reliability of the questionnaire [15]. In the present study, the reliability was calculated, and the Cronbach’s alpha was 0.71. The average length of time for answering questions was 15 minutes.

Data analysis

In addition, it was stated that all information would remain confidential. Data was collected using SPSS software (version 16), and descriptive and inferential statistics were used to analyze the data. Data were analyzed using descriptive and inferential statistics, Kolmogorov–Smirnov, t-test or mann–Whitney test, Chi-square test and regression analysis.

Ethical consideration

This research project was approved by the local Ethics Committee of Bam University of Medical Sciences (MUBAM. REC.1395.2.). Additionally, before the start of the study, informed consent was given by the participants. The participants were assured of the confidentiality of all their personal information. The researchers tried to observe all of the participants’ rights in accordance with the declaration of Helsinki. The research proposal number is 1395.2.

Results

Participants

In this study, 260 women with an age range of 16–35 years and mean age of 25 were studied. Among the women, 91 (35%) had a high school diploma, and 195 (75%) were housewives. The average number of female children in the study population was 102 (39%), and the average number of male children was 158 (61%).

Main results

This study showed that 36% of the subjects presented postpartum depression. Table 1 shows the coefficients of the regression model between postpartum depression and the child value dimensions. According to this table, the social and economic dimensions of child’s value were determined to be significant at a level of 0.05. These dimensions are good predictors of postpartum depression, but the emotional dimension of a child’s value is not significant at a level of 0.05. Table 2 shows the social dimension, with a mean of 2.97 ± 0.6 being the lowest dimension of child value, and the emotional dimension, with a mean of 3.79 ± 0.42 being the highest dimension of child value in this study.

Table 3 shows the effect of demographic variables on the value of a child and postpartum depression. According to this table, the type of pregnancy and delivery method affects the value of a child and postpartum depression. The mother’s education and economic status also affect postpartum depression.

### Table 1. Coefficients of the regression model between postpartum depression and child value dimensions

| Variable | Non-standard coefficient | Standard deviation | Standardized coefficient | t-Test stats | p |
|----------|--------------------------|--------------------|--------------------------|--------------|---|
| Width from origin | -0.867 | -0.327 | – | -2.649 | 0.009* |
| Emotional dimension of child value | -0.045 | 0.068 | 0.038 | -0.655 | 0.513 |
| Economic dimension of child value | 0.287 | 0.073 | 0.294 | 3.924 | 0.001* |
| Social dimension of child value | -0.194 | 0.076 | -0.231 | -2.545 | 0.012* |

* Significant at a level of 0.05.

### Table 2. Comparison of mean and standard deviation of child’s dimensions in the studied women

| Child value dimensions | Minimum obtained score | Maximum obtained score | Standard deviation | Average |
|------------------------|------------------------|------------------------|--------------------|---------|
| Emotional dimension    | 2.57                   | 5                      | 0.42               | 3.79    |
| Economic dimension     | 1.67                   | 4.5                    | 0.52               | 3       |
| Social dimension       | 1.79                   | 4.93                   | 0.6                | 2.97    |

### Table 3. Chi-square test results of the relationship between demographic variables with variables of the value of child and postpartum depression

| Demographic variables | Value of having a child | Postpartum depression |
|-----------------------|-------------------------|-----------------------|
| Mother’s age          | 0.925                   | 0.746                 |
| Mother’s job          | 0.250                   | 0.326                 |
| Father’s job          | 0.860                   | 0.896                 |
| Father’s education    | 0.187                   | 0.046*                |
| Father’s education    | 0.403                   | 0.571                 |
| Economic situation    | 0.820                   | 0.012*                |
| Housing situation     | 0.507                   | 0.189                 |
| Duration of marriage  | 0.800                   | 0.096                 |
| Type of pregnancy     | Less than 0.001*        | Less than 0.001*      |
| Delivery method       | Less than 0.001*        | Less than 0.001*      |

* Significant at a level of 0.05.

### Table 4. Comparison of percentage of postpartum depression, the value of having a child and its dimensions with maternal education in the studied women

| Educational level of mother | Postpartum depression | Value of having a child | Emotional dimension | Economic dimension | Social dimension |
|-----------------------------|-----------------------|-------------------------|---------------------|--------------------|------------------|
| Middle school               | 0.71 ± 0.47           | 3.29 ± 0.37             | 3.90 ± 0.39         | 3.06 ± 0.45        | 3.09 ± 0.53      |
| Diploma                     | 0.94 ± 0.50           | 3.21 ± 0.48             | 3.78 ± 0.44         | 3.02 ± 0.53        | 3.00 ± 0.63      |
| Associate degree            | 0.96 ± 0.52           | 3.20 ± 0.41             | 3.75 ± 0.39         | 2.98 ± 0.48        | 3.02 ± 0.57      |
| Bachelor’s degree           | 0.80 ± 0.50           | 3.13 ± 0.47             | 3.80 ± 0.44         | 2.98 ± 0.55        | 2.87 ± 0.59      |
the value of a child \((p = 0.04)\), but no significant relationship was observed between
tum depression, the value of a child and its dimensions with
status of women [22].

the economic and social changes in the country and the social
cated women, the understanding of the value of the economic
a consistency between studies that indicate that in less edu-
continuity), the amount of childbirth becomes lower. There is
-
portant among younger women than older women, but mayer
reason for having a child [23].

Postpartum depression is a disorder associated with uncon-
trollable anxiety attacks, guilty feelings and obsessive thinking.
In this disease, the mother loses her mental health and can-
not establish an emotional relationship with her child [27]. The
findings of this study showed that 36% of the subjects suffered
from depression. This finding is consistent with the results of
most other studies, i.e. 30–50% of the prevalence of depression
[28–30]. In justifying this finding, the differences in the way this
study was conducted compared to previous studies concerning
depression, in terms of the type of used tools and the method
of interpreting the score obtained from these tools, should not
be ignored. However, the lifestyle of people in different provinc-
es and existing social supports from family members for woman
during pregnancy and after delivery can justify the lesser preva-
ience of depression among women after childbirth. Among the
possible reasons for the occurrence of postpartum depression
in primiparous women is the transition to the maternal stage
and the low self-confidence of primiparous mothers in meet-
ing the needs of the child.

In terms of education, there was a significant difference
between the two depressed and non-depressed groups, with
a higher percentage of people with higher education being in
the non-depressed group. This is consistent with the results of
a study conducted in the United States [31]. With an increase
in education, depression is expected to decline relatively. This
is because an increased level of education leads to increased
awareness in men and women towards physical, mental and so-
cial rights and the needs of each other. Moreover, an increased
level of education leads to increased understanding, coopera-
tion and, possibly, increased family income, which all contribute
to creating a healthy living environment.

Another study believed that the delivery method, such as
the use of labor induction, delivery with forceps, epidural
anesthesia and cesarean section, is associated with an increase in
the prevalence of postpartum depression [32], which is consistent
with the present study.

One of the strengths of this study was the probabilistic and
multi-stage sampling method of the study design, the division of
the number of samples based on the target society in the city
of Bam and the equal chance of selecting women. In addition,
the sampling of healthy women (based on their health records or
their self-declaration) was performed on women referred to the
healthcare centers. This greatly improved the generalizability of
the results and minimized the probability of bias. The importance
of this issue in the country’s policy-making and the lack of similar
studies across the country are other strengths of this study.

**Limitations of the study**

One of the limitations of this study is its cross-sectional na-
ture. Therefore, some future studies may be required to mea-
sure some variables. As another limitation of this study, the
difference in the understanding of research units from the ques-
tions raised can be mentioned. Sampling was conducted only in
urban areas of Bam city due to the problems and transportation
cost of sampling, while rural areas were not studied.

**Suggestion**

It is suggested that future studies be carried both in rural
and urban areas simultaneously. Given the decline in the num-

| Educational level of mother | Postpartum depression | Value of having a child | Emotional dimension | Economic dimension | Social dimension |
|----------------------------|-----------------------|-------------------------|---------------------|-------------------|----------------|
| Master’s Degree            | 1.07 ± 0.51           | 3.15 ± 0.50             | 3.72 ± 0.43         | 2.93 ± 0.56       | 2.95 ± 0.65     |
| t-Test stats               | 26.574                | 25.401                  | 3.928               | 22.034            | 34.417          |
| \(p\)                      | 0.046 *               | 0.187                   | 0.864               | 0.577             | 0.353           |

* Significant at a level of 0.05.

Table 4 shows the percentage of relation between postpar-
tum depression, the value of a child and its dimensions with
the mother’s education. There was a significant relationship
between the level of education and postpartum depression
\((p = 0.04)\), but no significant relationship was observed between
the value of a child \((p = 0.18)\), emotional dimension \((p = 0.86)\),
economic dimension \((p = 0.57)\) and social dimension \((p = 0.35)\).

**Discussion**

The present study was conducted with the aim of evaluat-
ing the relationship between a child’s value and postpartum
depression in Bam city. The primary analysis of the data in this
study showed that there was no relationship between postpar-
tum depression and the emotional dimension of a child’s value,
but there was a significant relationship between the value of
a child and the economic and social dimensions. In the present
study, the highest average score of the child’s value was related
to the emotional dimension, which was consistent with the
study conducted by Mayer et al. [21]. Although, in a study by
Fazeli et al., the highest average was obtained for dimension
of providing security when parents are old (social dimension) [22].

The reason for this contradiction can be explained in that
perhaps in metropolises, due to the lack of attention to middle-
aged people and the lack of supporting organizations [17], this
traditional vision of the child is of the utmost importance for
women, which has made provision of security when parents are
old a concern for Iranian women. However, in developed cul-
tures, the profitable economic value is diminished [23–25], be-
cause little economic benefits are provided by children for their
parents, while the emotional value of a child can be the primary
reason for having a child [23].

In the present study, the family value of a child was more im-
portant among younger women than older women, but Mayer
et al. showed that among three generations of one family, older
generations paid more attention to the traditional dimension of
a child’s value (economic value and social) more than younger
generations [21]. These differences can be attributed to the
socio-cultural differences between two societies and the man-
ner in which women were selected. In Mayer’s et al. study, the
comparison of the value of a child in one family was conducted,
and members of a family were compared, but in the present
study, the subjects were randomly selected. In the study of Fa-
zeli et al., the family value of a child was reduced from older
generations to younger generations, which is likely to be due
to a change in the traditional family pattern in Iran relating to
the economic and social changes in the country and the social
status of women [22].

With an increase in the education of the husband and wife,
material values (economic benefits) and intangible values (emo-
tional benefits, self-improvement and family expansion and
continuity), the amount of childbirth becomes lower. There is
a consistency between studies that indicate that in less edu-
cated women, the understanding of the value of the economic
benefits and the intangible values of children is more frequent.
The findings of Klein and Eckhard indicated that women with
higher education pay little attention to desirable economic as-
pects (economic benefits of having children). However, in these
studies, the immaterial values of children were in conflict with
each other [26].
ber of childbirths in the country, it is suggested that the structure of a child’s value be considered in future studies in order to examine the various factors affecting family burden and fertility in Iran among groups with different religious, cultural and ethnic characteristics. Since all subjects in this study reported breastfeeding, this variable could not be investigated, and it is suggested that this factor be investigated in future studies.

Conclusions

We concluded that postpartum depression was influenced by the social and economic dimensions of a child’s value and demographic factors. The concept of the value of a child is a culture dependent variable, and considering this, depression, especially postpartum depression, is closely related to cultural and social factors. Emphasis on the importance of increasing the readiness of mothers and their caregivers regarding the risk factors of postpartum depression and the emphasis of nurses and midwives on the importance of family and society support and healthcare providers can be effective in preventing postpartum depression in regions with a high prevalence of postpartum depression.

However, in the geographic area of this study, in order to reduce postpartum depression, it is recommended to increase family support or support for spouses with these young primiparous women during childbirth, which increases their self-esteem and improves their transition to the maternal stage in better conditions. The findings of this study can pave the way for future studies.

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Address for correspondence:
Naeimeh Tayebi, MSc
Department of Midwifery
Faculty of Nursing and Midwifery
Bam University of Medical Sciences
Bam
Iran
Tel.: +91 70618566
E-mail: tayebi_m67@yahoo.com