Abstract

Aim: This research was conducted to determine the effect of personality traits of postpartum women on pain perception and maternal self-confidence.

Material and methods: The population of this study, which was designed as a descriptive cross-sectional study, was determined as 202 with a confidence interval of 0.95 and a power of 0.95 to represent the universe, according to the power analysis. The study was completed with 258 puerperant women. Data were collected with the "Personal Description Form", "Ten-Item Personality Scale (TIPS)", "Visual Analog Scale (VAS)" and "Pharis Self-Confidence Scale (PSCS)". In the statistical evaluation, descriptive statistics (percentage, mean, standard deviation), Pearson's correlation and multiple linear regression analysis were used.

Results: According to VAS, 25.2% of the participants had severe pain in the legs, 27.1% in the abdomen, 46.4% in the waist, 17.4% in the chest, 30.3% in the head, 9.4% in the knee, 25.5% in the hips and 43% in the perineum region. The total mean score of the PSCS was 43.72±11.8. It was found that there was a significant correlation between TIPS sub-dimensions and pain regions and total PSCS score averages (p<0.001, p<0.05). As a result of multiple linear regression analysis, it was determined that the personality traits of women predicted pain and maternal self-confidence negatively and the models were statistically significant (p<0.05).

Conclusions: It has been determined that personality traits have an effect on pain perception and maternal self-confidence. In line with the results obtained, midwifery interventions should be planned to reduce the perception of pain and increase maternal self-confidence.

Key words: postpartum, personality traits, pain, maternal confidence

Introduction

The postpartum period, covering the first 42 days [first 6 weeks] postpartum period, is of great importance in terms of maternal and newborn health, as it is a period in which maternal-neonatal mortality and morbidity occur most frequently as a result of physiological and psychological changes [1]. However, in the postpartum period, many women try to cope with the physiological and psychosocial changes that occur during pregnancy and childbirth [2]. In the postpartum period, women experience vaginal bleeding, cramping, bladder and intestine problems, pain in the head, perineum, back and incision site [3, 4]. The vast majority of women perceive the experience of pain as mild or severe [5], which differs from person to person and culture to culture. It is reported that the experience of pain perception is a personal experience depending on individual psychological factors, and pain that can be easily tolerated by a person may be intolerable in another person [6]. It is stated that body perception is related to pain severity and pain duration, and women with high body perception awareness experience lower back pain in both pain severity and pain duration [7]. Appropriate evaluation and management of pain complaints occurring in the postpartum period, timely identification of complications and delivery of care are very important for health professionals and midwives [8]. During this period, pain and other complications in women can lead to inability to manage their own and their baby's...
In order to overcome these problems, women need strong self-confidence and self-efficacy [8]. It was stated that self-confidence is one of the most important features required for a person to lead a happy and successful life, to fulfill the responsibilities and roles she undertakes in a healthy way, and to cope with the problems she may encounter in life more easily [8]. Studies showed that those who delivered by cesarean section experience more pain [10], and vaginal delivery is more disadvantageous on postpartum chronic pain than cesarean section [11]. However, it is stated that the baby's weight, mother's age, education level and mood during pregnancy are effective factors on the postpartum pain perception experience [12], and that physical activity has a positive effect on the postpartum pain perception experience [13]. It is stated that maternal self-confidence is affected by factors such as being educated about baby care, having experience in baby care, and feeling ready for the role of motherhood, and that mothers need information in this special period [8,14]. Considering that there are insufficient studies on this subject in the literature it was aimed to determine the effect of personality traits on pain perception and maternal self-confidence in the postpartum period and to improve midwifery care in line with the results obtained. Thus, it is predicted that by determining the effect of the mother's personality traits on the postpartum period pain perception experience, the management of pain by non-pharmacological methods by midwives, and this situation may pave the way for attempts to improve maternal self-confidence.

Material and methods

Type of the study

The study was conducted as cross-sectional.

Population and sample of the study

Whether the data fit the normal distribution or not was checked with the Kolmogorov Smirnov test. Since the skewness value of the model is between -2 and +2, it has been observed that it provides a normal distribution [15]. Participants were determined by the virtual snowball chain sampling method, one of the purposive sampling methods. According to the sample calculation made using the G*power 3.1 program, the sample size was determined as at least 202 with an effect size of 0.25, a margin of error of 0.05, a confidence level of 0.95, a population size was determined as at least 202 with an effect size of 0.25, a calculation made using the G*power 3.1 program, the sample

Inclusion criteria

- Having given birth at term (38 weeks and above),
- Being in the first 7 days after birth,
- Ability to read and write,
- Having an electronic device with internet connection.

Exclusion criteria

- Filling in the form incompletely.

Data collection tool

Study data were obtained with the tools of “Personal Presentation Form”, “Ten-Item Personality Scale”, “Visual Analog Scale” and “Pharis Self-Confidence Scale”.

Personal introduction form

The personal introduction form [8, 13, 16] created in line with the literature reviews made by the researchers consists of a total of 17 questions including socio-demographic and obstetric characteristics.

Ten-item personality scale (TIPS)

The Ten-Item Personality Inventory, developed by Gosling et al. (2003) [17], was adapted to Turkish culture by Atak (2013) [18]. The language validity of the scale (correlations ranging between 0.92 - 0.97), exploratory (5 factors and 10 items; explained variance 65.21 %) and confirmatory (X2 /sd: 2.20, GFI (Goodness-Of-Fit Index) .95, AGFI (Adjusted Goodness-Of-Fit Index) .92, CFI (Comparative Fit Index) .93, NNFI (nonnormed fit index) .91, RMR (Root Mean Square Residual) .04 and RMSEA (Root Mean Square Error Of Approximation) .03) factor analysis results, item analysis and criterion-resilient validity results support the suitability of the proposed five-factor model in Turkish youth. The results of reliability analysis (n=54; Openness to Experience 0.89, Compassion 0.87, Emotional Stability 0.89, Conscientiousness 0.87, and Extraversion 0.88) based on internal consistency (Openness to Experience 0.83, Amenability 0.81, Emotional Stability 0.83, Responsibility 0.84, and Extraversion 0.86) and test-retest method reported that the scale was acceptable and reliable [18]. It was calculated as 0.657 in this study.

Visual analog scale (VAS)

Developed by Bond and Pilowsky in 1966, the VAS is a 10 cm ruler scale defined as "no pain" at one end and "worst pain" at the other [19]. In the evaluation of VAS, 0 cm is defined as no pain, 1-3 cm mild pain, 4-6 moderately severe pain, and 7-10 severe pain [20, 21, 3]. This scale was adapted to Turkish by Aslan and Oztürk [22].

Pharis self-confidence scale (PSCS)

The scale was first developed by Pharis (1978). It was adapted into Turkish by Çalışır [23]. The Pharis Self-Confidence Scale, which is a 13-item five-point measurement tool, measures a parent's feelings of self-confidence about daily baby care. Each infant care item is rated from 1 to 5 (not at all, very little, moderately, very much, completely). The increase in the total score obtained from the scale indicates that the self-confidence levels of the mothers increase in baby care. The lowest score on the "Pharis Self-Confidence" scale is 13, the highest score is 65. In his study, Cronbach's alpha reliability coefficient was found to be 0.85. In this study, it was calculated as 0.95.

Data collection

The data were collected by the researchers via google form. Postpartum women were contacted separately via the mobile network system and the informed consent form was approved before the scale questions using the google forms method. Again, using the google forms method, data collection forms were sent to the participants via WhatsApp and the answers were digitally archived. It took approximately 10 minutes to fill out this form.

Ethical aspect of research

Approval was obtained from the Inonu University Health Sciences Non-Interventional Clinical Research Ethics Committee (Decision No:2021/2264) to conduct the study. Participants were informed about the study and postpartum women who volunteered were included in the study.

Evaluation of data

The data were evaluated by creating a data set in the IBM SPSS Statistics for Windows, Version 25.0 package program on the computer, descriptive statistical analyzes (frequency distribution, mean, standard deviation), correlation and linear regression analysis were used. Statistical significance was accepted as p<0.05, p<0.01.
Results

It was determined that the mean age of the puerperant women participating in the study was 28.75±5.57, 39.1% of them were high school graduates, 70.2% of them were not working and 82.9% of them had a planned pregnancy. It was determined that 46.1% of the participants had problems during pregnancy, 85.3% received social support, 25.8% went to nine or more controls, and 55.4% performed these controls in a state hospital (Table 1).

Table 2  | TIPI Sub-Dimensions and PSCS Total Score Averages (n=258)

| Variable               | Mean ± SD |
|------------------------|-----------|
| Extraversion           | 7.89 ± 2.02 |
| Emotional Stability    | 7.74 ± 1.91 |
| Openness To Experiences| 6.94 ± 2.16 |
| Conscientiousness      | 7.86 ± 1.95 |
| Agreeableness          | 8.20 ± 1.59 |
| Total Score Average    | 43.72 ± 11.8 |

SD = Standard Deviation, TIPI; Ten-Item Personality Inventory, PSCS; Pharis Self-confidence Scale.

The distribution of visual analog scale scores according to the regions where postpartum women experience pain was given in Table 3. In the study, 25.2% of the participants stated that they experienced severe pain in the leg region, 27.1% in the abdomen, 46.4% in the lumbar region, 17.4% in the chest region 30.3% in the head region, 9.4% in the knee region, 25.5% in the hip region and 43% in the perineum region (Table 3).

Table 3  | Distribution of Participants’ Visual Analogue Scale Scores by Regions Where They Experience Pain (n=258)

| VAS Extraversion | No Pain (0) | Mild Severe Pain (1-3) | Moderate Pain (4-6) | Severe Pain (7-10) | Total |
|------------------|-------------|------------------------|---------------------|--------------------|-------|
| Leg              | 70 (27.1)   | 79 (30.6)              | 44 (17.1)           | 65 (25.2)          | 258 (100) |
| Abdominal        | 40 (15.5)   | 106 (41.1)             | 42 (16.3)           | 70 (27.1)          |       |
| Waist            | 43 (16.7)   | 66 (25.6)              | 29 (11.3)           | 120 (46.4)         |       |
| Chest            | 100 (38.8)  | 69 (26.7)              | 44 (17.1)           | 45 (17.4)          |       |
| Head             | 88 (34.1)   | 65 (25.2)              | 27 (10.4)           | 78 (30.3)          |       |
| Knee             | 116 (45)    | 91 (35.2)              | 27 (10.4)           | 24 (9.4)           |       |
| Hip              | 83 (32.2)   | 66 (25.6)              | 43 (16.7)           | 66 (25.5)          |       |
| Perineum         | 47 (18.2)   | 66 (25.6)              | 34 (13.2)           | 111 (43)           |       |

VAS: Visual Analogue Scale, n: numbers; %: percent.

The relationship between TIPS sub-dimensions, pain regions, and total PSCS score averages were given in Table 4. A statistically significant negative correlation was found between the extraversion sub-dimension and leg pain, headache, knee, hip pain, and perineal pain. A statistically significant correlation was found between the emotional stability sub-dimension and all pain regions, and a statistically significant relationship was found between the PSCS total score and positively. A statistically significant negative correlation was found between the sub-dimension of openness to experiences and headache and perineal pain, between the responsibility sub-dimension and leg, low back pain, chest, hip and perineal pain, and between the mildness sub-dimension and hip, hip and perineal pain (Table 4).
### Table 4

| Variable          | Extraversion | Emotional Stability | Openness to Experiences | Conscientiousness | Agreeableness | PCS total |
|-------------------|--------------|---------------------|-------------------------|-------------------|--------------|-----------|
|                   | r  | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   | r   | p   |
| Leg area          | -1.131 | .036 | -1.140 | .024 | -0.355 | .581 | -1.189 | .002 | -1.113 | .071 | -3.655 | .000 |
| Abdominal Area    | -0.760 | .223 | -1.324 | .034 | -0.400 | .523 | -1.119 | .056 | -0.048 | .440 | -2.734 | .000 |
| Waist Area        | -0.630 | .316 | -1.187 | .003 | -0.065 | .297 | -1.184 | .003 | -0.020 | .745 | -3.274 | .000 |
| Chest Area        | -0.580 | .350 | -1.186 | .003 | -0.033 | .593 | -1.182 | .003 | -1.103 | .099 | -3.224 | .000 |
| Head Area         | -1.156 | .012 | -3.324 | .000 | -1.016 | .010 | -3.133 | .000 | -2.050 | .001 | -4.514 | .000 |
| Knee Area         | -1.147 | .018 | -1.135 | .030 | -0.003 | .964 | -0.991 | .147 | -0.959 | .130 | -3.074 | .000 |
| Hip Area          | -1.162 | .009 | -2.215 | .000 | -0.010 | .869 | -1.155 | .013 | -1.160 | .010 | -3.304 | .000 |
| Perineum Area     | -2.311 | .000 | -3.377 | .000 | -1.126 | .943 | -2.290 | .000 | -2.625 | .000 | -3.044 | .000 |
| PSCS              | -0.031 | .623 | -2.511 | .000 | -0.079 | .205 | -0.099 | .113 | -0.099 | .111 | -2.031 | .000 |

TIPI; Ten-Item Personality Inventory, PSCS; Pharis Self-confidence Scale, r; Pearson correlation analysis, The correlation is significant at the p<0.01 level. The correlation is significant at the p<0.05 level.

### Table 5

| Variables | Leg | Abdominal | Waist | Chest | Head | Knee | Hip | Perineum | PSCS Total |
|-----------|-----|-----------|-------|-------|------|------|-----|----------|-------------|
| B         | .131| -.076     | -.063 | -.058 | -.156| -.147| -.162| -.231    | .627        |
| t         | -2.108| -1.220   | -1.004| -.936 | -2.520| -2.376| -2.629| -3.802   | 12.990      |
| β         | -.065| -.038     | -.031 | -.029 | -.077| -.073 | -.081| -.115    | 0.099       |
| R²        | .017| .006      | .004  | .003  | .024 | .022 | .026 | .053     | .394        |
| F         | 4.443| 1.490     | 1.009 | .876  | 6.353| 5.645| 6.911| 14.456   | 166.55      |
| p         | .036| .223      | .316  | .350  | .002 | .018 | .009 | .000     | .000        |
| Emotional Stability |     |           |       |       |      |      |      |          |             |
| B         | -.140| -.132     | -.063 | -.186 | -.031| .135 | -.215| -.337    | .651        |
| t         | -2.264| -2.134   | -3.046| -3.030| -5.481| -2.187| -3.529| -5.724   | 13.713      |
| β         | -.075| -.070     | -.099 | -.099 | -.172| -.072 | -.115| -.179    | 2.214       |
| R²        | .020| .017      | .035  | .035  | .105 | .018 | .046 | .113     | .423        |
| F         | 5.149| 4.555     | 9.277 | 9.179 | 30.037| 4.785 | 6.911| 14.456   | 188.043     |
| p         | .024| .034      | .003  | .003  | .000 | .030 | .000 | .000     | .000        |
| Openness To Experiences |     |           |       |       |      |      |      |          |             |
| B         | .029| .040      | .065  | -.033 | -.161| -.003 | -.029| -.126    | .582        |
| t         | .553| -.640     | 1.046 | -.535 | -2.606| -.045 | -.165| -.209    | 11.464      |
| β         | -.016| -.018     | -.030 | -.015 | -.074 | -.001 | .005 | -.058    | 2.106       |
| R²        | .001| .002      | .004  | .001  | .026 | .000 | .000 | .016     | .339        |
| F         | .306| .410      | 1.094 | .286  | 6.791| .002  | .027 | .027     | 131.147     |
| p         | .591| .523      | .297  | .593  | .010 | .964 | .869 | .000     | .000        |
| Conscientiousness |     |           |       |       |      |      |      |          |             |
| B         | -.189| -.119     | -.184 | -.182 | -.313| -.091 | -.155| -.290    | .701        |
| t         | -3.086| -1.918   | -2.995| -2.958| -5.279| -1.455| -2.505| -4.841   | 15.713      |
| β         | -.091| -.057     | -.088 | -.087 | -.150| -.043 | -.074| -.139    | 2.151       |
| R²        | .036| .014      | .034  | .033  | .098 | .008 | .024 | .084     | .491        |
| F         | 9.523| 3.677     | 8.970 | 8.749 | 27.868| 2.116 | 6.276| 24.433   | 246.902     |
| p         | .002| .056      | .003  | .003  | .000 | .147 | .013 | .000     | .000        |
| Agreeableness |     |           |       |       |      |      |      |          |             |
| B         | .035| -.048     | -.020 | -.103 | -.205| .035  | -.160| -.265    | .582        |
| t         | -1.814| -.774    | -.326 | -1.657 | -3.344| -1.519| -2.599| -4.406   | 11.464      |
| β         | -.064| -.027     | -.012 | .058  | -.116 | -.053 | -.091 | -.150    | 2.106       |
| R²        | .013| .002      | .000  | .011  | .042 | .009  | .026 | .070     | .339        |
| F         | 3.292| .599      | .106  | 2.747 | 11.181| 2.308 | 6.754| 19.410   | 131.147     |
| p         | .071| .440      | .745  | .999  | .001 | .130  | .010 | .000     | .000        |

TIPI; Ten-Item Personality Inventory, PSCS; Pharis Self-confidence Scale, B: unstandardized coefficient of regression, β: standardized coefficient of regression, R²: coefficient of determination, p: F test result for the significance of the model, p: F test result for the significance of the regression coefficients.
As a result of the analyzes, it was determined that personality traits in the postpartum period predicted pain and maternal self-confidence in a negative way and the established models were statistically significant. When the $R^2$ values of the models were examined, 1% of the pain in the leg area, 2% of the headache, 2% of the pain in the hip area, 5% of the pain in the perineum and 39% of the maternal self-confidence were explained by the extraversion sub-dimension of the ten-item personality traits scale.

In the study, 2% of the pain in the leg area, 1.7% of the pain in the abdomen, 3.5% of the pain in the chest area, 10.5% of the headache, 1.8% of the pain in the knee area, 4.6% of the pain in the hip area, 11.3% of pain in the perineum and 42.3% of maternal self-confidence were explained by the emotional stability sub-dimension of the ten-item personality traits scale.

2.6% of headache and 33.9% of maternal self-confidence were explained by the openness to experiences sub-dimension of the ten-item personality traits scale.

According to the results, 3.6% of pain in the leg region, 3.4% of pain in the lumbar region, 3.3% of headache, 2.4% of pain in the hip region, 8.4% of pain in the perineum and 49.1% of maternal self-confidence were explained by the responsibility sub-dimension of the ten-item personality traits scale.

4.2% of headache, 2.6% of hip pain, 7% of perineal pain and 33.9% of maternal self-confidence were explained by the ten-item personality traits scale's agreeableness sub-dimension.

Starting from the equations that can be established regarding the regression models, a 1-unit increase in the extraversion sub-dimension score causes a decrease of -.065 in the leg area, -.077 in the head region, -.073 in the knee region, -.081 in the hip region, -.115 in the perineum region, and an increase of 1.99 units in maternal self-confidence. A 1-unit increase in the emotional stability sub-dimension score causes an increase of -.075 in the leg region, -.070 in the abdomen, -.099 in the waist region, -.099 in the chest region, -.172 in the head region, -.072 in the knee region, -.115 in the hip region, -.179 in the perineum region, and 2,214 units on maternal self-confidence. A 1-unit increase in the openness to experiences sub-dimension score causes a -.074-unit decrease in the head area and an increase of 2.106-unit on maternal self-confidence. A 1-unit increase causes a decrease of in the Responsibility sub-dimension score -.091 in the leg region, -.088 in the waist region, -.087 in the chest region, -.150 in the head region, -.074 in the hip region, -.139 in the perineum region, and an increase of 2.151 in the maternal self-confidence. A 1-unit increase in the Compassion sub-dimension score causes a -.116-unit decrease in the head region, -.091-unit decrease in the hip region, -.150-unit decrease in the perineum region, and an increase of 2.106-unit in maternal self-confidence (Table 5). Consequently, it can be said that the personality traits of extraversion, emotional stability, openness to experiences, responsibility and agreeableness accompany low levels of pain and high maternal self-confidence in the postpartum period.

**Discussion**

After pregnancy, which is the most special stage of a woman's life, in the postpartum period, the mother transitions to a new process socially and psychologically. In this process, being able to carry out and manage social and psychological processes in a healthy way is closely related to the personality traits of the mother [24]. Considering the studies on personality traits in the postpartum period, studies on postpartum depression and breastfeeding [25-28] were found.

In this study, personality traits sub-dimensions mean scores were found to be extraversion $7.89±2.02$, emotional stability $7.74±1.91$, openness to experience $6.94±2.16$, conscientiousness $7.86±1.95$, and agreeableness $8.20±1.59$. In Brown's study, personality traits sub-dimensions score averages were determined as $8.41±2.42$ for extraversion, $7.50±2.63$ for emotional stability, $6.94±2.57$ for openness to experience, $8.75±2.47$ for conscientiousness, and $8.47±2.47$ for agreeableness [26]. In the study conducted by Sunay et al., the mean scores of personality traits sub-dimensions were found to be $8.92±3.33$ for extraversion, $8.90±3.09$ for emotional stability, $9.00±3.25$ for openness to experience, $10.51±3.16$ for conscientiousness, and $11.14±3.16$ for agreeableness [25]. In this study, it was seen that the average score of personality traits sub-dimensions was slightly lower than the literature. The reason for this may be that the data was obtained online. More realistic results may have been obtained since postpartum women answered questions more comfortably in online interviews than in face-to-face interviews.

Pain is a condition that can cause negative consequences in many areas of life, both physically and psychologically. It is known that pain affects people's quality of life. The negative effect of pain on dynamic physiological and psychological processes in the postpartum period is inevitable [29]. Therefore, examining pain, considering the role of women in mental and physical health, is necessary for improved health and treatment process [5]. In this study, it was found that pain was felt in the leg, abdomen, waist, chest, knee, hip and perineum region in the postpartum period, and that the majority of puerperal women experienced severe pain in the low back, perineum and head region. It was stated that 25-68 % of women experience low back pain in the postpartum period [13]. In this study, it was determined that 46.4 % of puerperant women had severe low back pain and 29 % had moderate low back pain. People who experience similar levels of pain intensity may react differently. The most important factors affecting the perception of pain and enduring pain are individual characteristics, including psychological and personality traits [5]. In this study, it was determined that postpartum women with extrovert personality traits experienced less leg, head, knee, hip and perineal pain, that puerperant women, who had more emotionally balanced personality traits, experienced less leg, abdomen, waist, chest, knee, hip and perineal pain, that puerperant women who had personality traits that were open to experiences less headache and perineal pain, that puerperant women with higher level of responsible personality traits experienced less leg, waist, chest, head, hip and perineal pain, and puerperal women with mildness personality traits experienced less head, hip and perineal pain. In a study, it was determined that there is a strong relationship between personality traits and headaches [30, 31]. In the study of Yadolah et al., a relationship was found between personality traits and pain [5]. In the studies conducted by Özsoy et al. (2018) and Jalali and Ghaleban (2005), no significant relationship was found between personality traits and pain perception [6, 32]. According to the results of the literature, our research finding was similar to the studies that found a relationship between personality traits and pain, but differs from the studies that did not.

Looking at the relationship between maternal self-confidence and areas of pain, a statistically significant negative correlation was found between self-confidence and pain perception. It was observed that as maternal self-confidence increased, perceived pain decreased in each region. Self-confidence is the psychological prerequisite for meaningful, happy, satisfying, loving and balanced moments [33]. In this context, every effort of midwives to increase self-confidence will contribute to the realization of this prerequisite and contribute to less perception of pain.
Self-confidence is defined as a dynamic cognitive process that explains a personal belief to successfully perform a necessary behavior in a given situation. Self-confidence is an important prerequisite for behavior change and self-control [33, 34]. It has a vital role for the mother and baby in the postpartum period [26]. Women's low self-confidence creates a negative self-perception that increases guilt, shame, feelings of worthlessness, helplessness, and ultimately frustration, depression, and motivational impairment of problem-solving ability [35]. High maternal self-confidence is needed for the positive development of children [36]. In studies conducted in the postpartum period in Turkey, the mean PSCS score was 50.2±9.5 [9]. It was determined as 42.6±6.2 [2]. In this study, the mean total score of maternal self-confidence was determined as 43.72±11.88. Considering the maximum score that can be obtained from the scale 65, we can say that there was a medium level of maternal self-confidence. For this reason, midwives should aim to develop self-confidence by constantly supporting mothers in the postpartum period.

Moreover, a 1-unit change in the extraversion subdimension score causes a decrease of .077 in the perception of headache, .081 in the hip region, .115-unit in the perineum, and an increase of 1.99 units in the total maternal self-confidence score. A 1-unit change in emotional stability sub-dimension score causes an increase of .075 units in the leg region, -.070, in the abdomen region, -.099 in the waist region, -.099 in the chest region, -.172 in the head region, -.072 in the knee region, -.115 in the hip region, -.179 in the perineum, and an increase of 2.214 in maternal self-confidence. A 1-unit increase in the openness to experiences sub-dimension score causes a .074-unit decrease in the head area and an increase of 2.106-unit on maternal self-confidence. A 1-unit increase in the Responsibility sub-dimension score causes a decrease of -.091 in the leg region, -.088 in the waist region, -.087 in the chest region, -.150 in the head region, -.074 in the hip region, -.139 in the perineum region, and an increase of 2.151 in the maternal self-confidence. A1-unit increase in the agreeableness sub-dimension score causes a decrease of -.116 in the head area, -.091 in the hip region, -.150 in the perineum, and an increase of 2.106 units in maternal self-confidence. These findings showed that personality traits were an effective variable in reducing pain perception and increasing maternal self-confidence in postpartum women. Since there is no study supporting this finding, it is thought that our study result will contribute to the literature.

Conclusion

As a result, it was determined that personality traits have a significant effect on pain perception and maternal self-confidence in the postpartum period. In the postpartum period, it is important to eliminate the perception of pain with pharmacological or non-pharmacological methods in accordance with the personality characteristics and preferences of women and to establish self-confidence communication with mothers. In this context, we think that maternal self-confidence can increase as puerperant women are informed about pain, baby care, psychological processes and parental identity by midwives and nurses during the early postpartum period that they stay in the hospital.

Limitation of the study

The limitation of this study is that puerperant women who did not have internet on their phones and did not know how to use mobile devices could not be included in the study because google forms were used in the study. Our findings cannot be generalized to all pregnant women since the research was carried out on google forms, and a certain population could be reached, and more studies are needed in this area.

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