The Effect of Spiritual Coping Skills on Psychological Resilience and Health Beliefs of Mothers with Children with Special Needs

Keywords

health belief, psychological resilience, Mother with a child with a disability, spiritual coping

Abstract

Introduction

Mothers of children with special needs face many different responsibilities and struggles while coping with the challenges of daily life. Mothers struggle not only with the care and needs of their children, but also with maintaining their own psychological resilience. In this study, the mediating role of spiritual coping skills in psychological resilience and health beliefs of mothers with children with special needs was investigated.

Material and methods

A cross-sectional descriptive design was used, following STROBE reporting guidelines. The study involved 3000 mothers from eight special education and rehabilitation centers, with 376 mothers selected through proportional stratified random sampling. Data were collected using the 'Descriptive Characteristics Form', 'Maternal Spiritual Coping Scale', 'Psychological Resilience Assessment Scale', and 'Parental Health Belief Scale'. Descriptive analyses were conducted for demographic data and parameter results, while regression analysis was used to assess relationships between variables, and correlation coefficients were calculated. Data were analyzed using a specialized statistical program.

Results

Positive correlations were found between the Maternal Spiritual Coping Scale and the Psychological Resilience Assessment Scale (r=0.296, p<0.001), as well as the Parental Health Belief Scale (r=0.309, p<0.001). A positive correlation was also observed between the Psychological Resilience Assessment Scale and the Parental Health Belief Scale (r=0.209, p<0.001).

Conclusions

In the study, it was determined that mothers' spiritual coping strategies played an important role in their psychological health and their attitudes towards their children's health problems.

| 1 | The Effect of Spiritual Coping Skills on Psychological Resilience and Health Beliefs of |
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25 Abstract

Introduction: Mothers of children with special needs face various responsibilities and challenges in daily life. They not only manage their children's care and needs but also strive to maintain their own psychological resilience. This study aimed to explore the mediating role of spiritual coping skills in the psychological resilience and health beliefs of these mothers.

Method: A cross-sectional descriptive design was used, following STROBE reporting 30 guidelines. The study involved 3000 mothers from eight special education and rehabilitation 31 32 centers, with 376 mothers selected through proportional stratified random sampling. Data were 33 collected using the 'Descriptive Characteristics Form', 'Maternal Spiritual Coping Scale', 'Psychological Resilience Assessment Scale', and 'Parental Health Belief Scale'. Descriptive 34 35 analyses were conducted for demographic data and parameter results, while regression analysis was used to assess relationships between variables, and correlation coefficients were calculated. 36 37 Data were analyzed using a specialized statistical program.

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43 Conclusions: In the study, it was determined that mothers' spiritual coping strategies played an
44 important role in their psychological health and their attitudes towards their children's health
45 problems.

46 Keywords: Mother with a child with a disability, spiritual coping, psychological resilience,47 health belief.

2

48 Introduction

The birth of a new member into the family leads to changes in the roles and responsibilities of the parents. Although it is thought that having a child with special needs changes the roles and responsibilities within the family, the greatest burden and responsibility falls on mothers who meet the child's care needs [1, 2]. Mothers of children with special needs encounter various responsibilities and challenges in daily life. They not only care for their children's needs but also strive to maintain their own psychological resilience. Many people use different strategies to relieve stress and cope with anxiety during major life changes [3, 4].

In this context, hope is defined as a fundamentally positive phenomenon that is essential for 56 coping constructively with trauma, and its primary purpose is to avoid hopelessness [5]. 57 Similarly, spiritual coping strategies are one of the main ways to manage the challenges and 58 59 stresses of raising children [6, 7]. Research shows that a strong spirituality in families of children with special needs helps mothers accept their children, see them as a gift from God, 60 61 feel blessed, and believe they are specially chosen [8]. These spiritual beliefs give mothers hope 62 and emotional resilience to survive and cope with the challenges they face. An individual's 63 spiritual coping strategies positively affect physical and mental health, increase life satisfaction, well-being, sense of purpose, meaning of life, hope and optimism, and reduce anxiety and 64 65 depression [9-11]. Belief systems and spiritual skills can help increase mothers' resilience in challenging life by strengthening stress coping mechanisms. 66

One of the biggest challenges mothers face is managing serious issues related to their children. When mothers are healthy physically, emotionally, and spiritually, they can better support their children in coping with and recovering from their illnesses [4]. Given the important role of motherhood and the importance of spirituality in the lives of many women, it is crucial to understand how mothers use spirituality during their children's illnesses [4]. Parents' choices in medical decision-making for a sick child shape their views on what is best for their child and how they see their role as parents [12]. Health belief explains why people do or don't take protective health actions by considering the causes and severity of a health threat, as well as the benefits, barriers, and triggers for action [13, 14]. Mothers with strong health beliefs often seek help from family, friends, traditional treatments, or health professionals. For instance, those with strong spiritual beliefs may be more proactive in addressing their children's health needs, which can improve their overall well-being.

A comprehensive literature review found no studies on the spiritual coping skills, psychological resilience, and health beliefs of mothers with children who have special needs. Examining these three areas together can help create better support programs for families and inform health policies and research. This study aims to evaluate how spiritual coping skills affect the psychological resilience and health beliefs of these mothers.

84 Material And Methods

85 Research Design and Date of the Research

86 The study, conducted between September 2023 and January 2024, used a cross-sectional
87 descriptive research model and was reported in accordance with STROBE reporting guidelines.

88 Population and Sample of the Study

The research was conducted in 8 different Special Education and Rehabilitation Centers located in Yenişehir district of Mersin province. A total of 3,000 mothers of students in these centers constituted the population of the study. While calculating the number of registered students, siblings were considered as single children and mothers with more than one child were considered as single child mothers. According to the table of minimum acceptable sample sizes for different populations by Sekeran U. (1992); 341 mothers who volunteered to participate in the study constituted our sample with a 95% confidence interval [15]. Considering the possibility of data loss, 35 more mothers were included and a total of 376 mothers were reached.
The proportional stratified random sampling technique was used to select the research universe,
taking into account the student capacities of the rehabilitation centers included in the research.

99 The Data Collection Process

Since the majority of children attending special education and rehabilitation centers are accompanied by their mothers, mothers were chosen as the study group. During the data collection process, institutional permission was obtained from the centers and informed consent was obtained from the mothers who would be included in the study before proceeding with data collection. The data were collected through face-to-face interviews with the mothers of the children. The data collection process took approximately fifteen minutes.

106 Data Collection Tools

107 Descriptive Features Form: It is a survey form created through a literature review [16-18].
108 With this form, age, marital status, number of children, education level, employment status and
109 family income will be determined.

Maternal Spiritual Coping Scale (MSCS): This scale, whose reliability was established by Yaman et al., consists of 24 items [16]. It is a Likert-type scale and is preferred to be evaluated with 5 points. In this context, 5 = strongly agree, 4 = agree, 3 = partially agree, 2=Disagree and 1 = strongly disagree. There is no negative or reverse expression in the scoring of the scale. The participant's scores for each item are summed to provide an overall assessment. The person with the highest score is interpreted as the one who most frequently and extensively uses spiritual coping methods. Cronbach's alpha of the MSCS is .966.

Psychological Resilience Assessment Scale (PRAS): The scale was developed by Van Der
Meer et al. (2018). Turkish validity and reliability was performed by Türkan et al.[17]. PRAS
is a 5-point Likert-type scale with the answer key "I completely disagree" (0), "I disagree" (1),

"I am undecided" (2), "I agree" (3), "I completely agree" (4). There are no reverse-coded items
in the scale. The possible scores that can be obtained from the scale are between 0-36, and the
high scores obtained are interpreted as high psychological resilience. Cronbach's alpha of the
PRAS is .85.

124 **Parental Health Belief Scale (PHBS):** The PHBS was developed by Amen and Clarke [19] to 125 assess mothers' beliefs about their children's health. The adaptation to Turkish was made by 126 Sunmaz and Başer [18]. The original scale consisted of 20 items, but during its adaptation into 127 Turkish, 3 items were removed due to poor correlation in the item-total statistics analysis. As a 128 result, the scale has 17 items. The six-point Likert-type scale consists of three dimensions. The evaluation of the scale is graded from "1" to "6" (strongly disagree: 1, disagree: 2, strongly 129 disagree: 3, somewhat agree: 4, agree: 5, strongly agree: 6). The minimum score that can be 130 131 obtained from the scale is 17, the maximum score is 102. The Cronbach's alpha coefficient for 132 the whole adapted scale was found to be 0.79, and the Cronbach's alpha coefficient of the subdimensions was found to vary between 0.63 and 0.72 [18]. 133

134 Statistical Analysis

The data obtained in the study were analyzed using a special statistical analysis program (SPSS 135 136 for Windows version 22, IBM Corporation, Armonk, NY, USA). The conformity of the 137 parameters to normal distribution was evaluated using visual (histograms and probability plots) 138 and analytical methods (Kolmogorov-Smirnov and Shapiro-Wilk's test). Since demographic 139 characteristics and evaluated parameters were found to be not normally distributed, these 140 parameters were given using median and interquartile range. Ordinal and nominal values 141 obtained within the scope of the study were expressed as percentages (%). Maternal Spiritual 142 Coping Scale, Psychological Resilience Scale and Parental Health Belief Scale scores of the 143 participants' marital status (married, single), gender of their children with special needs (girl, 144 boy), employment status (working, not working), mother's disability status (present, absent), 145 status of receiving a monthly allowance for a special child (receiving, not receiving) and finding 146 the allowance sufficient (sufficient, not sufficient) were compared using Mann-Whitney U test. 147 The effects of participants' age, marital status, number of children, number of children with 148 special needs, gender of the child with special needs, time of diagnosis, mother's educational 149 status, mother's employment status, mother's income status, consanguineous marriage, mother's 150 disability status, receipt of special child monthly allowance and finding the allowance sufficient 151 on the scores of the Maternal Spiritual Coping Scale, Psychological Resilience Scale and 152 Parental Health Belief Scale were examined by multiple regression analysis. To verify the 153 multicollinearity of the regression analyses, the VIF (variance inflation factor) was determined, 154 which was below 10 for all indicators, proving that there was no strong correlation between the 155 independent variables. Finally, the Durbin-Warson test was performed to determine whether there was autocorrelation among the residuals. The relationship between the numerical 156 157 parameters was assessed by Spearman correlation analysis. P values below 0.05 were 158 interpreted as statistically significant results.

159 Ethical Principles of the Study

Before starting the study, ethics committee approval was obtained from the Toros University Non-Interventional Ethics Committee (14.09.2023/25). Institutional permission was obtained from the institutions where the study was conducted and informed consent was obtained from the mothers who agreed to participate in the study.

164 **RESULTS**

165 Within the scope of the study, 376 mothers with children with special needs were evaluated.

166 Descriptive characteristics of the mothers are shown in Table 1.

167 [Please Table 1 insert here]

7

168 According to the scale scores given by the mothers participating in the study, the median 169 interquartile range of the maternal spiritual coping scale was 114.5 (103-119), the median 170 interquartile range of the psychological resilience assessment scale was 30 (23-35), the median 171 interguartile range of the parental health belief scale was 66 (59-72), the median interguartile range of the parental health belief scale-internal factors sub-dimension was 14 (12-15), the 172 173 median interquartile range of the parental health belief scale-external factors sub-dimension 174 was 33 (30-36), and the median interquartile range of the chance factors sub-dimension of the parental health belief scale was 19 (16-24) (Table 2). 175

176 [Please Table 2 insert here]

The effect of demographic characteristics on the Maternal Spiritual Coping Scale(MSCS),
Psychological Resilience Assessment Scale (PRAS) and Parental Health Belief Scale (PHBS)
and their sub-dimensions scores in mothers of children with special needs were examined
separately.

181 When the effect on the MSCS was examined; it was found that the MSCS scores of university 182 graduate mothers with children with special needs were lower than those of primary school 183 (p=0.002), secondary school (p<0.001) and high school graduate mothers (p<0.001). The 184 MSCS scores of non-working mothers (p<0.001) were found to be higher than those of working mothers. It was found that mothers who reported that their income was less than their expenses 185 186 (p=0.002) had a higher level of MSCS than mothers who reported that their income was equal 187 to their expenses (Table 3). When the effect of the scale on the mothers' Psychological 188 Resilience Assessment Scale (PRAS) score was examined; it was found that the PRAS score of single mothers with children with special needs was higher than that of married mothers 189 190 (p=0.048), while the PRAS score of unemployed mothers (p=0.003) was higher compared to 191 working mothers. The PRAS score of primary school graduate mothers with children with 192 special needs was found to be lower than that of middle school (p=0.008) and high school

193 graduate mothers (p=0.003). In addition, the PRAS (p=0.015) score of mothers with special 194 needs children who reported that their income was less than their expenses was higher than that 195 of mothers who reported that their income was equal to their expenses and than that of mothers 196 whose income was greater than their expenses (p=0.004) (Table 3).

197 When the effect on the Parental Health Belief Scale score (PHBSS) was examined, the PHBS, 198 PHBS-Internal Factors and PHBS-External Factors scores of the mothers whose children had a 199 disability after birth were higher than the mothers whose children had a disability before or 200 during birth (p<0.001). The Parental Health Belief Scale (PHBS) (p=0.508), PHBS-Internal 201 Factors (p=0.165) and PHBS-External Factors (p=0.260) scores of the mothers whose children 202 had a disability before or during birth were similar (Table 3). The PHBS-External factors score 203 of university graduate mothers of children with special needs was higher than that of primary 204 school graduates (p=0.007), secondary school graduates (p=0.003) and high school graduates 205 (p=0.017) (Table 2). It was found that the PHBS (p=0.024), PHBS-Internal Factors (p<0.001) and PHBS-External Factors (p<0.001) scores of working mothers with children with special 206 207 needs were lower than those of non-working mothers (Table 2). While the PHBS-External Factors scores of mothers with consanguineous marriages were lower than those of mothers 208 without consanguineous marriages (p=0.049), the PHBS (p=0.331), PHBS-Internal Factors 209 210 (p=0.194) and PHBS-Chance Factors (p=0.614) scores of both groups of mothers were similar 211 (Table 4). While the PHBS-Internal Factors score of the mothers who found the monthly family 212 allowance sufficient was lower than the group who found the monthly family allowance low 213 (p=0.030), the PHBS (p=0.105), PHBS-External Factors (p=0.196) and PHBS-Chance Factors 214 (p=0.496) scores of both groups of mothers were similar (Table 3).

215 [Please Table 3 insert here]

When the effects of the descriptive characteristics of the mother were examined, the Mother
Spiritual Coping Scale (MSCS), Psychological Resilience Assessment Scale (PRAS), Parental

Health Belief Scale (PHBS), PHBS-Internal Factors, PHBS-External Factors and PHBS-218 219 Chance Factors scores and the adequacy of the assistance allowance were examined by multiple 220 regression analysis, These parameters were found to explain 10.7% of the change in the Mother 221 Spiritual Coping Scale, 13.9% of the change in the PRAS, 10.5% of the change in the PHBS total score, and 29.8% of the change in the PHBS-Chance Factors. It was found to explain 7% 222 223 of the change in the Mother Spiritual Coping Scale, 13.9% of the change in the PRAS, 10.5% of the change in the PHBS total score, 29.8% of the change in the PHBS-Internal Factors score, 224 225 31.9% of the change in the PHBS-External Factors score and 10.3% of the change in the PHBS-226 Chance Factors score. It was found that the age of the mother (p=0.031) and PRAS scores 227 (p=0.005) affected the change in the MSCS of the participants. The determinative parameters 228 for the change in the PRAS score were found to be; mother's education status (p<0.001), 229 mother's employment status (p=0.004), mother's income status (p=0.026), and the MSCS score 230 (p=0.005). The determinative parameters for the change in the Parent Health Belief Scale 231 (PHBS) score were found to be the age of the first child with special needs (p=0.030) and the 232 time of diagnosis of the disabled child (p<0.001) (Table 4a). It was found that the determinative 233 factors for PHBS-Internal Factors were PHBS-External Factors (p<0.001) and PHBS-Chance Factors (p=0.007). For PHBS-External Factors, the determinative factors were found to be the 234 time of diagnosis (p<0.001), consanguineous marriage (p=0.018), and PHBS-Internal Factors 235 236 (p<0.001). For the PHBS-Chance factors, the determining parameters were found to be the 237 gender of the child with special needs (p=0.039), the educational status of the mother (p=0.012) and the PHBS-Internal Factors score (p=0.007) (Table 4b). Multicollinearity tests revealed that 238 239 the VIF values of all indicators were below 10 and there was no strong linear relationship 240 between the explanatory variables. In addition, the Durbin-Watson test results indicated that the 241 D-W value was below 2, indicating that the error terms were not correlated with each other, that 242 is, they were independent (Tables 4a, 4b).

243 [Please Table 4a insert here]

244 [Please Table 4b insert here]

When the relationship between the examined parameters was analyzed using correlation 245 246 analysis, a negative relationship was found between the mother's age and the MSCS score (r=-0.114, p=0.028). It was found that there is no relationship between the number of children, the 247 248 number of children with special needs, and the age of the first child with special needs and the 249 scores of the scales used (p>0.05). In addition, a positive correlation was found between the 250 MSCS score and the PRAS (r=0.296, p<0.001) and PHBS scores (r=0.309, p<0.001). Additionally, a positive relationship was found between the PRAS score and the PHBS scores 251 252 (PHBS) (r=0.209, p<0.001) (Table 5). Additionally, a negative relationship was found between the MSCS score and the PHBS-External Factors (r=-0.110, p=0.032) (Table 5). 253

254 [Please Table 5 insert here]

255 Discussion

256 This study closely examined the effects of spiritual coping skills, psychological resilience, and health beliefs in mothers of children with special needs. Mothers of children with special needs 257 who are university graduates have lower spiritual coping skills compared to those with only 258 259 primary, middle, or high school education. This may be because university-educated mothers 260 are more focused on their careers and other responsibilities, leaving them less time and attention 261 for their children. This can increase stress and reduce their ability to cope with the challenges of raising a child with special needs. The many demands placed on them can hinder their coping 262 skills in this situation [20]. In this research, it was seen that mothers with special comprehensive 263 264 details showed higher spiritual performance characteristics than working mothers. In addition, the mother's age and spiritual structures also include her spiritual success characteristics. 265

266 Our study found that single mothers of children with special needs have higher psychological 267 resilience than married mothers. Mothers with disabled children often face marital problems 268 during this challenging time, which adds to their difficulties. Parents struggle to find time for 269 their relationships because of the demands that come with having a child with special health 270 care needs [21]. The study by Papp et al. (2004) found that poor marital adjustment negatively 271 affects women's mental health more than men's [22]. The study by Lickenbrock et al. (2011) 272 found that mothers with positive interactions with their spouses have higher levels of well-being 273 [23]. Our study found that mothers of children with special needs who have an income less than 274 their expenses show higher psychological resilience than those whose income meets or exceeds 275 their expenses. In contrast to our findings, studies by Lloyd & Rosman and Nota et al. found 276 that both living in poverty and having a child with special needs harm women's mental health 277 [24, 25]. In our study, the strong psychological resilience of mothers with low income may be 278 due to having a robust support network and the financial aid provided by the government or 279 organizations for disadvantaged families. This support also helps them access healthcare 280 services. Assistance from these larger systems can help families cope with challenges and 281 maintain their psychological resilience [25]. Our study found that a mother's educational level, employment status, income, and spiritual coping skills all influence her psychological 282 resilience. 283

Health belief focuses on motivating people to prevent diseases and disabilities and encouraging them to adopt healthier behaviors [26]. The study found that mothers whose children were diagnosed after birth had higher Parental Health Beliefs than those whose children were diagnosed before or during birth. It is believed that the notion of being able to manage the disease after birth enhances their sense of control and the influence of environmental factors on health behaviorsIn a qualitative study examining mothers of children with special needs, mothers generally believed that with enough effort during early childhood, disabilities could be

treated or developmental delays reduced, regardless of the child's health issues [27]. 291 292 Developmental delay refers to delays in speech and language, motor skills, social skills, and 293 cognitive development [28]. Late detection of developmental delays results in missed 294 opportunities for early intervention, leading to negative outcomes like learning difficulties, behavioral issues, and functional impairments later in life [29]. Effective early diagnosis of 295 296 developmental delays and timely early intervention can positively change a child's long-term 297 course [30]. Early diagnosis and intervention for children with special needs are essential for 298 improving their health development and readiness for school [31]. The social participation of a 299 child with special needs can positively impact the mother's psychological resilience.

300 University graduate mothers of children with special needs had higher PHBS-external factors 301 score, and mothers with primary school, middle school and high school graduates had higher 302 health beliefs. Yu's study found that mothers with higher education levels are better able to help prevent and treat their children's diseases and disorders [32]. Other studies found that mothers 303 304 with higher education levels positively affect their children's nutrition, vaccination status, 305 survival, and ability to cope with diseases [33-37]. Studies show similarities to our research, 306 indicating that the educational status of mothers of children with special needs influences health 307 beliefs related to PHBS-Chance factors. However, it suggests that mothers do not rely on chance 308 for their children's health. The study also found that the age of the first child and the timing of 309 the diagnosis for the disabled child impact Parental Health Beliefs.

The timing of disease diagnosis and consanguineous marriage were found to influence parental health beliefs as external factors. This suggests that early diagnosis is viewed as crucial for treatment, and mothers' health beliefs are shaped by concerns about potential health issues in children from consanguineous marriages. In this study, while the gender of the child with special needs was considered a factor in mothers' health beliefs related to PHBS-Chance, no

| 315 | significant difference was found between genders. Since all data were collected from mothers |
|-----|--|
| 316 | using rehabilitation services, it's clear that all participants had access to health services. The |
| 317 | findings also show that a mother's spiritual coping skills positively impact her psychological |
| 318 | resilience and parental health beliefs. |

| 319 | Conclusions | and | Recommend | ations |
|-----|-------------|-----|-----------|--------|
|-----|-------------|-----|-----------|--------|

320 This study showed that spiritual coping skills of mothers of children with special needs have a

321 significant effect on their psychological health and health beliefs about their children's health

- 322 problems. In accordance with the findings:
- Spirituality is a strong support mechanism for mothers in the face of challenging life
 conditions,
- Psychological resilience is closely related to socioeconomic factors,

Work life may have a negative impact on mothers' health beliefs, as working mothers have
low health beliefs.

- 328 In this context, the following recommendations are offered:
- Community-based support programs should be developed to meet the spiritual and
 psychological support needs of mothers with children with special needs.
- Improvements should be made in social policy regulations, taking into account the effects of
 mothers' education level and economic status on psychological resilience.
- Since the time of diagnosis of a child's disability affects mothers' health beliefs, early
 diagnosis and intervention programs should be encouraged.
- In future studies, longitudinal studies should be prioritized to examine the long-term effectsof these factors.

337

338 Limitations of the Study

This study has some limitations. The study has a cross-sectional design and was conducted only 339 340 in a single time period. Therefore, the findings of the study only reflect the current situation and causality cannot be inferred. In addition, convenience sampling was used to collect the research 341 342 data, which may limit the capacity of the sample to represent the general population. Since the study collected data only from mothers who applied to rehabilitation centers, parents who did 343 not seek health services for their children were excluded. This suggests that the findings are 344 345 limited to individuals who have access to health services. In addition, since the majority of children attending special education and rehabilitation centers are accompanied by their 346 347 mothers, only mothers were selected as participants in this study, which may affect the 348 homogeneity of the participant group.

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351 Decleration

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Table 1. Descriptive features

| Variables | n | (%) |
|-----------|---|-----|
| | | |

Average Age of Mothers: 38 years

Average Age of First Child with Special Needs:8 years

| Marital Status | Married | 339 | 90.2 |
|--|------------------|-----|------|
| | Single | 37 | 9.8 |
| Number of Children with Special Needs | 1 child | 335 | 89.1 |
| | 2 children | 36 | 9.6 |
| | 3 children | 5 | 1.3 |
| Gender of the child with special needs | Girl | 175 | 46.5 |
| | Boy | 201 | 53.5 |
| Time of Diagnosis | Before birth | 45 | 12 |
| | At birth | 45 | 12 |
| | After birth | 286 | 76.1 |
| Education Status of the Mother | Illiterate | 2 | 0.5 |
| | Primary school | 115 | 30.6 |
| | Secondary school | 106 | 28.2 |
| | High school | 117 | 31.1 |
| | University | 36 | 9.6 |
| Employment Status of the Mother | Working | 40 | 0.6 |
| | Not working | 336 | 89.4 |
| Consanguineous Marriage | Have | 107 | 28.5 |
| | Does not have | 269 | 71.5 |
| Disability status of the mother | Have | 8 | 2.1 |
| | Don't have | 368 | 97.9 |
| Status of receiving a monthly family allowance for children with special needs | Receive | 201 | 53.5 |
| | Does not receive | 175 | 46.5 |
| Situation of finding the monthly family allowance sufficient | Sufficient | 23 | 6.1 |
| | Insufficient | 178 | 47.3 |
| | | | |

Table 2. Scale scores

| Scale scores | Median interquartile range | MinMax. |
|---|-------------------------------|---------|
| Maternal Spiritual Coping Scale (Score) | 114.5 (103-119) | 24-120 |
| Psychological Resilience Assessment Scale (Score) | 30 (23-35) | 0-36 |
| Parental Health Belief Scale (Score) | 66 (59-72) | 26-99 |
| Parental Health Belief Scale-Internal factors | 14 (12-15) | 3-18 |
| Parental Health Belief Scale-External factors | 33 (30-36) | 10-42 |
| Parental Health Belief Scale-Chance factors | 19 (16-24) | 7-42 |

Table 3. Statistical analysis results of the effects of demographic characteristics on the scores of the mother spiritual coping scale, the psychological resilience assessment scale, and the parent health belief scale

| Parameters | | Maternal Spiritual Coping Scale | Psychological Resilience Assessment Scale | Parental Health Belief Scale | Internal Factors | External Factors | Chance Factors |
|--|------------------------------|---------------------------------|--|---------------------------------|------------------|------------------|----------------|
| | Married | 115 (103-119) | 30 (23-35) | 66 (59-72) | 14 (11-15) | 33 (30-35) | 19 (16-24) |
| Marital Status | Single | 110 (96-117) | 33 (28-36) | 67 (62-73) | 15 (12-17) | 34 (30-37) | 20 (16-24) |
| | p | 0.052 | 0.048 * | 0.574 | 0.413 | 0.576 | 0.887 |
| | 1 child | 115 (103-119) | 30 (23-35) | 66 (59-72) | 14 (11-15) | 33 (29-35) | 20 (16-24) |
| Number of Children with Special | 2 children | 109.5 (101-116) | 28.5 (15-34) | 69 (64-74) | 15 (13-15) | 35 (33-37) | 19 (16-23) |
| Needs | 3 children | 114 (113-116) | 33 (30-33) | 64 (61-69) | 15 (12-16) | 32 (29-35) | 14 (13-20) |
| | р | 0.136 | 0.3 | 0.109 | 0.094 | 0.069 | 0.346 |
| | Girl | 114 (106-119) | 32 (23-35) | 66 (59-72) | 14 (11-15) | 34 (30-35) | 19 (16-23) |
| Gender of the child with special | Boy | 115 (100-119) | 30 (23-35) | 66 (60-72) | 14 (12-15) | 33 (29-36) | 20 (16-24) |
| needs | p | 0.574 | 0.453 | 0.718 | 0.622 | 0.444 | 0.081 |
| | Before birth | 112 (100-118) | 29 (20-34) | 70 (65-78) | 15 (14-16) | 35 (33-38) | 20 (17-24) |
| | At birth | 116 (99-120) | 32 (24-36) | 70 (65-74) | 15 (13-15) | 35 (33-35) | 20 (16-24) |
| Time of Diagnosis | After birth | 115 (103-119) | 30 (23-35) | 64 (58-71) | 13 (11-15) | 32 (29-35) | 19 (16-24) |
| | p | 0.234 | 0.317 | <0.001 * | <0.001 * | <0.001 * | 0.267 |
| | Illiterate | 113 (110-116) | 32 (31-33) | 68 (60-76) | 15 (13-16) | 35 (31-39) | 19 (16-21) |
| | Primary school | 115 (103-119) | 27 (17-34) | 68 (60-73) | 13 (11-15) | 33 (29-35) | 20 (17-24) |
| | Secondary school | 116 (104-120) | 32 (25-35) | 64 (58-71) | 14 (11-15) | 33 (29-35) | 19 (16-23) |
| Education Status of the Mother | High school | 115 (106-119) | 31 (26-36) | 66 (59-72) | 14 (12-15) | 33 (30-36) | 20 (16-23) |
| | University | 104.5 (86-114) | 30 (25.5-33.5) | 67 (61-73) | 15 (13-18) | 36 (32-38) | 17 (13-23) |
| | p | 0.009* | 0.024* | 0,467 | 0,118 | 0.043 * | 0.058 |
| Employment Status of the Mother | Working | 104.5 (84-114) | 25.5 (14,5-33,5) | 67 (64-75) | 16 (13-18) | 37 (34-38) | 18 (15-23) |
| r J | Not working | 116 (105.5-119) | 30 (23.5-35) | 66 (59-72) | 14 (11-15) | 33 (29-35) | 19 (16-24) |
| | p | <0.001 * | 0.019 * | 0.024 * | <0.001 * | <0.001 * | 0.131 |
| | Income is less than expenses | 116 (107,5-120) | 32 (24-36) | 66 (59-72) | 13 (12-15) | 32 (29-35) | 19 (16-24) |
| Mother's Income Status | Income is equal to expense | 113 (93-118) | 28 (23-34) | 67 (60-73) | 15 (11-16) | 34 (29-37) | 20 (16-24) |
| | Income is more than expense | 112 (101-118) | 27 (16-32) | 66 (61-72) | 14 (12-15) | 34 (31-35) | 17 (16-23) |
| | р | 0.006* | 0.003* | 0.493 | 0.419 | 0.192 | 0.628 |
| | Have | 115 (105-119) | 30 (23-34) | 65 (58-72) | 15 (12-15) | 32 (29-35) | 19 (16-23) |
| Consanguineous Marriage | Does not have | 114 (23-34) | 30 (23-35) | 66 (60-73) | 14 (11-15) | 34 (30-36) | 20 (16-24) |
| | р | 0.525 | 0.974 | 0.321 | 0.194 | 0.049 * | 0.614 |
| | Have | 115 (102,5-119) | 30 (23-35) | 68 (55-73) | 12 (11-15) | 34 (30-35) | 21 (16-24) |
| Disability status of the mother | Does not have | 112 (109-118) | 34 (29-36) | 66 (59-72) | 14 (12-15) | 33 (30-36) | 19 (16-24) |
| - | р | 0.962 | 0.198 | 0.847 | 0.305 | 0.756 | 0.773 |
| Status of receiving a monthly | Receive | 115 (104-119) | 30 (24-35) | 66 (59-72) | 14 (11-15) | 33 (29-35) | 20 (16-24) |
| family allowance for children with | Does not receive | 114 (101-119) | 29 (20-34) | 66 (59-72) | 14 (12-16) | 33 (31-37) | 19 (16-23) |
| special needs | р | 0.444 | 0.043 * | 0.806 | 0.517 | 0.191 | 0.041 * |
| | Sufficient | 115.5 (107-119) | 31 (24-35) | 66 (59-72) | 14 (11-15) | 33 (29-35) | 20 (16-24) |
| Situation of finding the monthly | Insufficient | 109 (97-120) | 30 (24-34) | 71 (62-75) | 15 (13-17) | 35 (29-37) | 22 (16-25) |
| raining anowance sufficient | р | 0.192 | 0.465 | 0.105 | 0.030 * | 0.196 | 0.496 |

* p<0.05, Mann-Whitney U test; * p<0.05, Kruskal Wallis test.

Table 4a. Regression analysis

| Parameters | Maternal Spiritual Coping Scale | | | | Psy | chological F Assessment | Resilience Scale | | Parental Health Belief Scale | | | | |
|--|---------------------------------|-------|-------|-------|-------|----------------------------|---------------------|-------|------------------------------|-------|--------|-------|--|
| | | β | р | VIF | В | β | р | VIF | В | β | р | VIF | |
| Age of mother | -0.32 | -0.15 | 0.031 | 1.9 | 0.05 | 0.05 | 0.508 | 1.92 | 0.1 | 0.08 | 0.232 | 1.90 | |
| Marital Status | -4.74 | -0.08 | 0.149 | 1.09 | 3.16 | 0.09 | 0.068 | 1.09 | 1.09 | 0.03 | 0.552 | 1.10 | |
| Number of Children | 0.24 | 0.02 | 0.737 | 1.31 | -0.14 | -0.02 | 0.709 | 1.31 | -0.34 | -0.05 | 0.389 | 1.30 | |
| Number of Children with Special Needs | 2.08 | 0.04 | 0.456 | 1.19 | -1.34 | -0.05 | 0.364 | 1.19 | 2.71 | 0.1 | 0.079 | 1.16 | |
| Age of first child with special needs | -0.1 | -0.03 | 0.622 | 1.90 | 0.16 | 0.11 | 0.118 | 1.89 | -0.24 | -0.15 | 0.030 | 1.87 | |
| Gender of the child with special needs | -1.56 | -0.04 | 0.428 | 1.10 | 0.00 | 0.00 | 0.999 | 1.10 | 2.08 | 0.1 | 0.058 | 1.09 | |
| Time of Diagnosis | 1.96 | 0.07 | 0.190 | 1.20 | 0.06 | 0.00 | 0,935 | 1.21 | -3.90 | -0.3 | <0.001 | 1.11 | |
| Education Status of the Mother | -1.84 | -0.1 | 0.101 | 1.42 | 2.44 | 0.24 | <0.001 | 1.37 | -0.29 | -0.03 | 0.646 | 1.40 | |
| Employment Status of the Mother | 5.66 | 0.09 | 0.105 | 1.32 | 5.25 | 0.16 | 0.004 | 1.30 | -3.07 | -0.09 | 0.112 | 1.30 | |
| Mother's Income Status | -0.97 | -0.03 | 0.537 | 1.19 | -1.84 | -0.12 | 0.026 | 1.18 | -0.19 | -0.01 | 0.832 | 1.19 | |
| Consanguineous Marriage | -2.22 | -0.05 | 0.319 | 1.16 | 0.16 | 0.01 | 0.895 | 1.16 | 1.02 | 0.04 | 0.410 | 1.14 | |
| Disability status of the mother | 4 | 0.03 | 0.548 | 1.05 | 2.99 | 0.04 | 0.394 | 1.05 | -5.92 | -0.08 | 0.110 | 1.05 | |
| Status of receiving a monthly family allowance for children with special needs | 11.33 | 0.30 | 0.171 | 19.44 | -3.63 | -0.18 | 0.407 | 19.51 | -5.24 | -0.25 | 0.257 | 19.40 | |
| Situation of finding the monthly family allowance sufficient | -5.66 | -0.29 | 0.187 | 19.75 | 0.91 | 0.09 | 0.690 | 19.84 | 2.62 | 0.24 | 0.257 | 19.70 | |
| Maternal Spiritual Coping Scale | - | - | - | | 0.08 | 0.15 | 0.005 | 1.1 | -0.01 | -0.01 | 0.862 | 1.12 | |
| Psychological Resilience Assessment Scale | 0.28 | 0.15 | 0.005 | 1.14 | - | - | - | | 0.09 | 0.01 | 0.886 | 1.15 | |
| Parental Health Belief Scale | - | - | - | | - | - | - | | - | - | - | | |
| Parental Health Belief Scale-Internal factors | -0.11 | -0.02 | 0.759 | 1.42 | 0.06 | 0.33 | 0.739 | 1.42 | _ | - | - | | |
| Parental Health Belief Scale-External factors | -0.04 | -0.01 | 0.851 | 1.47 | -0.14 | -1.26 | 0.210 | 1.46 | - | - | - | | |
| Parental Health Belief Scale-Chance factors | 0.05 | 0.01 | 0.782 | 1.11 | 0.11 | 1.26 | 0.209 | 1.11 | _ | - | - | | |
| Durbin-Watson value | | 1.944 | | 1,963 | | | | | 1,931 | | | | |
| R2 0.107 | | | | | | 0.139 | | | | 0.105 | | | |

Table 4b. Regression analysis

| Parameters | Parental I Inte | Health Belief ernal factors | Scale- | | Parental Health Belief Scale- External factors | | | | Parental Health Belief Scale- Chance factors | | | |
|---|--------------------|--------------------------------|--------|-------|---|-------|--------|-------|---|-------|-------|-------|
| | В | β | р | VIF | В | β | р | VIF | В | β | р | VIF |
| Age of mother | 0.03 | 0.10 | 0.155 | 1.91 | 0.02 | 0.03 | 0.578 | 1.92 | -0.02 | -0.03 | 0.685 | 1.92 |
| Marital Status | 0.11 | 0.01 | 0.828 | 1.10 | 0.07 | 0.00 | 0.935 | 1.10 | 0.54 | 0.03 | 0.616 | 1.10 |
| Number of Children | 0.12 | 0.10 | 0.290 | 1.30 | -0.23 | -0.06 | 0.209 | 1.30 | -0.19 | -0,05 | 0.409 | 1.31 |
| Number of Children with Special Needs | 0.54 | 0.06 | 0.211 | 1.19 | 1.36 | 0.09 | 0.058 | 1.18 | -0.90 | -0.05 | 0.327 | 1.20 |
| Age of first child with special needs | -0.05 | -0.10 | 0.093 | 1.88 | -0.01 | -0.01 | 0.858 | 2.0 | -0.07 | -0.08 | 0.280 | 1.89 |
| Gender of the child with special needs | 0.28 | 0.04 | 0.368 | 1.10 | -0.17 | -0.02 | 0.730 | 1.10 | 1.32 | 0.11 | 0.039 | 1.09 |
| Time of Diagnosis | -0.30 | -0.06 | 0.193 | 1.20 | -1.54 | -0.19 | <0.001 | 1.15 | -0.30 | -0.03 | 0.540 | 1.21 |
| Education Status of the Mother | 0.33 | 0.10 | 0.061 | 1.42 | 0.01 | 0.00 | 0.987 | 1.43 | -0.91 | -0.15 | 0.012 | 1.41 |
| Employment Status of the Mother | -0.73 | -0.10 | 0.177 | 1.32 | -1.60 | -0.10 | 0.076 | 1.32 | 1.33 | 0.07 | 0.242 | 1.33 |
| Mother's Income Status | -0.23 | -0.05 | 0.349 | 1.19 | 0.01 | 0.00 | 0.983 | 1.19 | 0.32 | 0.03 | 0.536 | 1.19 |
| Consanguineous Marriage | -0.69 | -0.09 | 0.048 | 1.15 | 1.36 | 0.11 | 0.018 | 1.14 | 0.32 | 0.02 | 0.656 | 1.16 |
| Disability status of the mother | -0.77 | -0.03 | 0.459 | 1.05 | -1.90 | -0.05 | 0.267 | 1.05 | -0.44 | -0.01 | 0.841 | 1.05 |
| Status of receiving a monthly family allowance for children with special needs | -1.80 | -0.27 | 0.162 | 19.44 | 0.71 | 0.06 | 0.740 | 19.54 | -1.40 | -0.12 | 0.603 | 19.53 |
| Situation of finding the monthly family allowance sufficient | 0.94 | 0.30 | 0.159 | 19.74 | 0.08 | 0.01 | 0.945 | 19.85 | 0.02 | 0.00 | 0.992 | 19.85 |
| Maternal Spiritual Coping Scale | -0.00 | -0.01 | 0.759 | 1.12 | -0.00 | -0.01 | 0.851 | 1.12 | 0.01 | 0.02 | 0.782 | 1.12 |
| Psychological Resilience Assessment Scale | 0.01 | 0.02 | 0.739 | 1.16 | -0.03 | -0.05 | 0.210 | 1.16 | 0.04 | 0.07 | 0.209 | 1.16 |
| Parental Health Belief Scale | - | - | - | | - | - | - | | - | - | - | |
| Parental Health Belief Scale-Internal factors | - | - | - | | 0.71 | 0.42 | <0.001 | | 0.30 | 0.16 | 0.01 | |
| Parental Health Belief Scale-External factors | 0.258 | 0.433 | <0.001 | | - | - | - | | 0.08 | 0.07 | 0.30 | |
| Parental Health Belief Scale-Chance factors | 0.067 | 0.125 | 0.007 | | 0.05 | 0.05 | 0.246 | | - | - | - | |
| Durbin-Watson value | | 1.989 | | | | 1.962 | | | | 1.911 | | |
| R2 | | 0.30 | | | | 0.32 | | | | 0.10 | | |

Table 5. Correlation analysis

| Paramatara | Maternal Spiritual Coping Scale | | Psychological Resilience Assessment Scale | | Parental Health Belief Scale | | Parental Hea Intern | alth Belief Scale- nal factors | Parental I Scale-Ext | Health Belief ernal factors | Parental Health Belief Scale- Chance factors | |
|---|------------------------------------|-------|--|--------|---------------------------------|-------|------------------------|-----------------------------------|-------------------------|--------------------------------|---|--------|
| r ar ameter s | r | р | r | р | r | р | r | р | r | р | r | р |
| Age of mother | -0.114 | 0.028 | - 0.011 | 0.836 | -0.005 | 0.930 | 0.010 | 0.842 | 0.066 | 0.199 | -0.084 | 0.104 |
| Number of Children | -0.025 | 0.631 | -0.081 | 0.116 | -0.020 | 0.701 | 0.054 | 0.300 | -0.057 | 0.269 | -0.064 | 0.212 |
| Number of Children with Special Needs | -0.092 | 0.076 | -0.053 | 0.309 | 0.092 | 0.076 | 0.112 | 0.030 | 0.109 | 0.034 | -0.039 | 0.451 |
| Age of first child with special needs | -0.020 | 0.703 | 0.088 | 0.088 | -0.103 | 0.045 | -0.069 | 0.183 | -0.052 | 0.312 | -0.082 | 0.112 |
| Maternal Spiritual Coping Scale | | | 0.296 | <0.001 | -0.051 | 0.328 | -0.100 | 0.052 | -0.110 | 0.032 | 0.062 | 0.234 |
| Psychological Resilience Assessment Scale | | | | | -0.013 | 0.795 | -0.063 | 0.223 | -0.087 | 0.092 | 0.071 | 0.169 |
| Parental Health Belief Scale | | | | | | | 0.622 | <0.001 | 0.708 | <0.001 | 0.673 | <0.001 |
| Parental Health Belief Scale- | | | | | | | | | 0.485 | <0.001 | 0.119 | 0.021 |
| Internal factors Parental Health Belief Scale- External factors | | | | | | | | | | | 0.093 | 0.072 |
| | | | | | | | | | | | | |