The relationships among perceived stress, conflict resolution styles, spousal support and marital satisfaction during the COVID-19 quarantine

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Abstract
This study investigated the relationships among perceived stress, conflict resolution styles, spousal support and marital satisfaction of heterosexual married couples during the 2019 Novel Coronavirus (COVID-19) quarantine. This was a descriptive study that employed a correlational survey model. The sample consisted of 511 Turkish married couples recruited using snowball sampling. Data were collected online using a demographic characteristic questionnaire, the Perceived Stress Scale, the Conflict Resolution Styles Scale, the Spousal Support Scale, and the Marital Life Scale. The mean age of participants was 37.00 (SD = 7.88) years. The mean duration of marriage of participants was 11.15 (SD = 8.97) years. Higher marital satisfaction was associated with lower perceived stress, lower negative conflict resolution style, higher spousal support, and higher positive resolution styles. The Conflict Resolution Styles Scale and Spousal Support Scale scores explained 48.3% of the total variance of the Marital Life Scale, indicating that higher positive conflict resolution styles and higher spousal support were significantly associated with higher marital satisfaction. The COVID-19 quarantine has resulted in changes in marital life and family dynamics. Stress, negative conflict resolution style, and a lack of spousal support during the COVID-19 quarantine contribute to marital dissatisfaction.

Keywords COVID-19 · Perceived stress · Conflict resolution · Spousal support · Marital satisfaction · Heterosexual married couples

Introduction
The novel Coronavirus disease (COVID-19) broke out in Wuhan, the capital of Central China’s Hubei province, at the end of 2019 and has taken hold of the entire world since then (Xiang et al., 2020). The virus is transmitted between people through the exchange of respiratory droplets when in close contact with each other, causing pneumonia, acute respiratory syndrome, and death, particularly among elderly persons with chronic diseases (CDC, 2020; Wu & McGoughan, 2020). The COVID-19 disease has become a global health problem and has infected millions of people and caused tens of thousands of deaths. Therefore, the World Health Organization (WHO) has classified it as a pandemic (WHO, 2020), and governments of countries worldwide have taken several measures to prevent its spread (Shakespeare-Finch et al., 2020; Zhu et al., 2020). Turkey announced its first confirmed case of COVID-19 on March 11, 2020, and has taken several preventive measures to curb the spread of the virus. Among these measures are school closure, the transition to distance education, flexibility in working hours (public and private), work shifted to the online space and working from home, and lockdowns (institutions and workplaces). In order to prevent contagion, stay-at-home orders were given for people 20 years old and younger and those over 65 years, and curfews for all age groups in certain large cities on weekends were also applied (Karataş, 2020). These measures have drastically changed the daily life of people everywhere. People remained in quarantine, either
by their personal decisions or due to the decisions of their governments. The COVID-19 pandemic has affected people physically, mentally, and socially (Armstrong et al., 2020; Shakespeare-Finch et al., 2020; Zhu et al., 2020). The fear of becoming infected, the increase in the number of positive cases and deaths, social isolation, and substantial uncertainties regarding the nature of the disease, and the dynamics of the pandemic have caused stress, anxiety, and psychosomatic conditions in people. Further, the increased uncertainty surrounding the virus, rapid course of the disease, and having loved ones infected or killed by the virus have exacerbated already-existing mental problems. Voluntary or mandatory quarantine deprived people of the social support that would have otherwise helped them cope with stress and anxiety, thereby increasing the severity of depression, anxiety, obsessive–compulsive disorders, and other psychosomatic conditions (Liu et al., 2020; Wang et al., 2020; Zhu et al., 2020).

The fear of becoming infected, mental strains, stress, anxiety, social isolation, changes in activities of daily living, and financial problems caused by the COVID-19 pandemic have affected domestic and marital life, often leading to family conflicts, domestic violence, and marital dissatisfaction (Gulati & Kelly, 2020; Huang & Zhao, 2020). The closure of workplaces, layoffs, and the ongoing stay-at-home orders resulting from the COVID-19 pandemic have led to numerous difficulties and disruption in the gender-based roles of married couples at home. Over 89% of Turkish citizens report being Muslim and 74% of them are Sunni. In contemporary Turkish society, females are more concerned with domestic responsibilities and taking care of children, while males take on the responsibility of supporting the household financially. The changes in daily life that have arisen due to the pandemic have affected these responsibilities and gender roles. In many cases, this situation has led to an increase in the stress levels of spouses and their expectations of support from one another (Abbaş & Dursun, 2020; Ünal & Gülseren, 2020). Spouses meet each other’s physical, mental, and social needs, such as sex, love, respect, value, and support. However, the COVID-19 pandemic has caused stress, anxiety, fear, and social isolation, thereby resulting in marital and domestic problems (Gulati & Kelly, 2020; Karataş, 2020). Spouses who were able to cope with the challenges of the pandemic likely built a stronger bond and began trusting each other more (Prime et al., 2020). However, those who were unable to cope with the challenges of not only the pandemic but also the challenges associated with a strained marriage (Abbas et al., 2019; Soylu & Kağnıcı, 2015), thereby exacerbating their mental problems and resulting in domestic violence and divorce. Therefore, this study investigated the relationships among perceived stress, conflict resolution styles, spousal support, and marital satisfaction of married couples during the COVID-19 lockdown. The study proposes the following hypotheses:

**Hypothesis 1**: The mean scores of the Perceived Stress Scale, Conflict Resolution Styles Scale, Spousal Support Scale, and Marital Life Scale vary according to the demographic characteristics of the participants (such as age, sex, education level, income level, etc.).

**Hypothesis 2**: Higher marital satisfaction is correlated with both lower perceived stress and negative conflict resolution styles.

**Hypothesis 3**: Higher marital satisfaction is correlated with both higher positive conflict resolution styles and spousal support.

**Hypothesis 4**: Perceived stress and negative conflict resolution styles negatively predict marital satisfaction.

**Hypothesis 5**: Positive conflict resolution styles and perceived spousal support positively predict marital satisfaction.

**Method**

**Design**

This descriptive study employed a correlational survey model to determine the relationship among perceived stress, conflict resolution styles, spousal support, and marital satisfaction of heterosexual married couples during the COVID-19 lockdown period.

**Participants**

The study population was comprised of married couples who quarantined together during the COVID-19 pandemic in Turkey. The sample consisted of 511 Turkish married couples who were recruited using snowball sampling, a nonprobability sampling method. For snowball sampling, advertisements were used to recruit couples from social media (e-mail, WhatsApp, Instagram, or Facebook). The inclusion criteria were (1) voluntary participation and (2) being married for at least six months. The exclusion criteria were (1) living separately during the COVID-19 lockdown, (2) refusing participation, and (3) being married for less than six months. Eleven participants were excluded from the study because the duration of their marriage was less than six months and they did not live together during the COVID-19 lockdown period.

**Procedure**

The present study was approved by the Aksaray University Human Research Ethics Committee. Permission was obtained from the Ministry of Health of the Republic of Turkey. The study data were collected between July 1, 2020 and July 30, 2020 using an online questionnaire survey.
due to nationwide preventive measures and restrictions. The scales were prepared on Google Forms, and an online questionnaire link was sent (over e-mail, WhatsApp, Facebook, or Instagram) to all participants. The initial participants were asked to send the link to other married couples they knew (snowball sampling). Prior to participation, all couples were informed of the purpose and procedure of the study and online and written consent was obtained from those who agreed to participate. The data were exported from Google Forms to Google Sheets and then to an Excel sheet. Participants took approximately 30 min to complete the questionnaires.

**Instruments**

The data were collected online using a demographic characteristic questionnaire, the Perceived Stress Scale (PSS), the Conflict Resolution Styles Scale (CRSS), the Spousal Support Scale (SSS), and the Marital Life Scale (MLS).

**Demographic Characteristics Questionnaire**

The demographic characteristics questionnaire developed by the researchers consisted of 11 items including age, sex, education level, income level, duration of marriage, anxiety level, and perceived challenges during the COVID-19 pandemic.

**The Perceived Stress Scale**

The Perceived Stress Scale (PSS) developed by Cohen et al., (1983) is a self-reported measure of perceived stress, feelings, and thoughts in the past month. The PSS was adapted to Turkish by Eskin et al. (2013). The PSS consists of 14 items scored on a 5-point Likert-type scale (“1 = Never” to “5 = Very Often”). The total score ranges from 14 to 70, with higher scores indicating higher stress levels. The PSS has a Cronbach’s alpha of 0.84 in its original form, the Cronbach’s alpha and McDonald’s Omega values were both found to be 0.86 in this study.

**The Conflict Resolution Styles Scale**

The Conflict Resolution Styles Scale (CRSS) developed by Özen (2006) is a measure of the conflict resolution styles adopted by married couples. The CRSS comprises 25 items scored on a 6-point Likert-type scale (“1 = Strongly disagree” to “6 = Strongly agree”). The scale has four subscales: the Positive Conflict Resolution Style (PCRS), Negative Conflict Resolution Style (NCRS), Subordination Conflict Resolution Style (SCRS), and (4) Retreat Conflict Resolution Style (RCRS). The subscale scores are taken into account for assessment. A higher score on a subscale indicates more common conflict resolution styles that correspond to that subscale (Özen, 2006). The CRSS subscales have a Cronbach’s alpha of 0.75–0.81 in its original form, Cronbach’s alpha and McDonald’s Omega values ranged from 0.70 to 0.80 in this study.

**The Spousal Support Scale**

The Spousal Support Scale (SSS) was developed by Yıldırım (2004) to assess the level of perceived spousal support. The SSS consists of 27 items scored on a 3-point Likert-type scale (“1 = Does not describe me at all” to “3 = Describes me well”). The SSS has four subscales: (1) emotional support, (2) instrumental and informational support, (3) appraisal support, and (4) social support. The total score ranges from 27 to 81, with higher scores indicating higher perceived spousal support. The SSS has a Cronbach’s alpha of 0.95 in its original form, the Cronbach’s alpha and McDonald’s Omega values were found to be 0.96 in this study.

**The Marital Life Scale**

The Marital Life Scale (MLS) was developed by Tezer (1994) to assess how satisfied couples are with their marriage. The MLS comprises 10 items scored on a 5-point Likert-type scale (“1 = Strongly disagree,” to “5 = Strongly Agree”). The total score ranges from 10 to 50, with higher scores indicating higher marital satisfaction (Tezer, 1994). The MLS has a Cronbach’s alpha of 0.91 in its original form, the value of Cronbach’s alpha for this study was 0.70, while McDonald’s Omega value was found to be 0.75 in this study.

**Ethical Considerations**

The study was approved by the Aksaray University Human Research Ethics Committee (Decision No/Date: 2020.06–29/22.06.2020). Permission was obtained from the Ministry of Health of the Republic of Turkey (2020–06-05T10_22_33). The procedures used in this study adhere to the tenets of the Declaration of Helsinki.

**Data Analysis**

Data were analyzed using the SPSS® 23.0 (IBM Corporation, Armonk NY, USA) for Windows® at a significance level of 0.05. The numbers and percentages were used for descriptive analysis. The Kolmogorov–Smirnov test was used for normality testing. An independent sample t-test and a one-way analysis of variance (ANOVA) were used to determine between-group differences by demographic characteristics. Further, Tukey’s test was used for pairwise group comparisons to determine the source of the differences. In addition, Spearman’s correlation coefficient was...
used to determine the relationship among variables. Multiple regression analysis was used to determine the effect of conflict resolution styles and spousal support on marital satisfaction.

**Results**

The mean age of participants was 37.00 (SD = 7.88) years (min = 22; max = 70). Among the participants, 75.54% were females, 79.84% had a bachelor’s degree or higher, and 50.88% had a moderate income (48,000–72,000 Turkish Liras). The mean duration of the marriage of participants was 11.15 (SD = 8.97) years (min = 1; max = 50). Further, 78.66% of the participants were living in cities with curfew ordinances, 83.17% had children (61.88% had more than two), and 63.79% were not employed during the COVID-19 pandemic. Participants had a mean anxiety score of 7.10 (SD = 2.45) (min = 1; max = 10) at the onset of the COVID-19 pandemic and 6.00 (SD = 2.53) (min = 1, max = 10) in the last week. The mean score of anxiety about health was 6.40 (SD = 2.62) (min = 1, max = 10). For participants, the challenges of the COVID-19 pandemic were emotional and mental stress (69.66%; n = 356), having to postpone important plans (52.44%; n = 268), financial loss or job loss (20.35%, n = 104), marriage and family problems (12.13%, n = 62), and having themselves tested positive or having a loved one tested positive or died from COVID-19 (7.82%, n = 40). Twelve participants (2.34%) reported having no problems, and ten participants (1.95%) took up new hobbies and spent quality time with their families during the lockdown.

Further, sex, place of residence, having children, and income level affected participants’ mean PSS score in Table 1 (p < 0.05). Female participants had a higher mean PSS score than males (t = -2.84, p = 0.004). Participants living in cities with curfew ordinances had a higher mean PSS score than those who were not (t = 2.72, p = 0.007). Participants without children had a higher mean PSS score than those with children (t = -2.02, p = 0.04). Low-income participants had a higher mean PSS score than those with high income (F = 8.19, p < 0.0001). Age, sex, education level, having children, and income affected participants’ mean SSS score in Table 1 (p < 0.05). Younger participants had higher SSS scores than older participants (F = 14.99, p < 0.0001). A bachelor’s degree or higher (F = 4.70, p < 0.05) and a postgraduate degree (F = 5.26, p < 0.01) were associated with lower SSS scores than other education levels. Participants living without curfew ordinances had higher SSS scores than those living with curfew ordinances (F = 4.93, p < 0.02). Participants living in cities with curfew ordinances had higher SSS scores than those without (F = 5.90, p = 0.001).

**Table 1** Perceived stress, spousal support and marital life levels according to participants demographic characteristics

| Demographic characteristics | PSS M ± S.D | Analysis Results | SSS M ± S.D | Analysis Results | MLS M ± S.D | Analysis Results |
|-----------------------------|-------------|------------------|-------------|------------------|-------------|------------------|
| Age                         | 42.03 ± 5.51| F = 2.43         | 71.21 ± 11.17| F = 7.91         | 34.80 ± 3.97| F = 6.36         |
| < 30                        |             |                  |             |                  |             |                  |
| 30-40                       | 40.57 ± 7.26| p = 0.06         | 68.23 ± 12.28| p < 0.0001       | 33.15 ± 4.97| p < 0.0001       |
| 40-50                       | 39.65 ± 7.17| t² = 0.01        | 63.35 ± 13.39| a > c, a > d     | 31.90 ± 4.70| a > c, a > d     |
| ≥ 50                       | 39.22 ± 6.83|                  | 64.39 ± 13.93| b > c, b > d²    | 32.92 ± 4.44| t² = 0.05        |
| Sex                         | 38.93 ± 7.54| t = -2.87        | 71.39 ± 10.20| t = 4.77         | 34.66 ± 4.59| t = 4.23         |
| Male                       |             |                  |             |                  |             |                  |
| Female                      | 41.06 ± 6.71| p = 0.004        | 65.98 ± 13.28| p < 0.0001       | 32.61 ± 4.75| p < 0.0001       |
| Education                   | 40.07 ± 7.02| F = 0.85         | 67.09 ± 15.11| F = 4.21         | 33.61 ± 4.62| F = 2.25         |
| Primary                     |             |                  |             |                  |             |                  |
| Secondary                   | 42.31 ± 5.63| p = 0.05         | 56.13 ± 15.88| p = 0.001        | 29.44 ± 5.30| p = 0.048        |
| High                        | 40.94 ± 7.90| t² = 0.01        | 63.85 ± 12.39| a > b, a > c, c  | 32.61 ± 5.26| a > b, c, b, c   |
| Bachelor                    | 40.01 ± 6.80|                  | 68.48 ± 12.54| d > b, d > c, c  | 33.33 ± 4.75| d > b, e > b     |
| Post-Graduate               | 41.27 ± 7.10|                  | 67.85 ± 11.56| e > b, e > c    | 33.25 ± 4.33| t² = 0.02        |
| Place of Residence          | 40.95 ± 6.92| t² = 0.01        | 66.88 ± 13.06| t² = -3.54       | 34.54 ± 4.09| t² = -1.43       |
| With curfew ordinances      |             |                  |             |                  |             |                  |
| Without curfew ordinances   | 38.81 ± 6.96| t = 2.72         | 68.86 ± 11.74| t = -3.54        | 34.54 ± 4.09| t = -1.43        |
| HAVING CHILDREN             | 40.22 ± 6.94| t = -2.02        | 65.99 ± 13.19| t = -7.25        | 32.80 ± 4.84| t = -3.37        |
| Yes                         |             |                  |             |                  |             |                  |
| No                          | 41.83 ± 7.01| p = 0.04         | 73.78 ± 8.80| p < 0.0001       | 34.69 ± 4.17| p = 0.001        |
| Income                      | 42.26 ± 6.71| F = 8.19         | 63.56 ± 14.99| F = 5.90         | 32.09 ± 5.09| F = 3.63         |
| LOW                         |             |                  |             |                  |             |                  |
| Moderate                    | 40.73 ± 7.02| p < 0.0001       | 68.20 ± 12.23| p = 0.003        | 33.57 ± 4.93| p = 0.02         |
| High                        | 38.71 ± 6.73| a > c            | 68.45 ± 11.57| b > a, c > a, c  | 33.06 ± 4.16| t² = 0.02        |

PSS: Perceived Stress Scale; SSS: Spousal Support Scale; MLS: Marital Life Scale; M: Mean; S.D. Standart Deviation; F: One Way Analysis of Variance (ANOVA); t: independent sample t-test; *Tukey test
a higher mean SSS score than older participants ($F=7.91$, $p<0.0001$). Male participants had a higher mean SSS score than female participants ($t=4.77$, $p<0.0001$). Further, participants with a bachelor’s degree had a higher mean SSS score than those without ($F=4.21$, $p=0.001$). Participants without children had a higher mean SSS score than those with children ($t=-7.25$, $p<0.0001$). Participants with high and moderate income had a higher mean SSS score than those with low income ($F=5.90$, $p=0.003$). Age, sex, education level, place of residence, having children, and income affected participants’ mean MLS score in Table 1 ($p<0.05$). Younger participants had a higher mean MLS score than older participants ($F=6.36$, $p<0.0001$). Male participants had a higher mean MLS score than female participants ($t=4.23$, $p<0.0001$). Moreover, participants with a secondary school degree had a lower mean MLS score than others ($F=2.25$, $p=0.048$). Participants living in cities with curfew ordinances had a higher mean MLS score than those who were not ($t=-3.54$, $p<0.0001$). Participants who do not have children had a higher mean MLS score than those who have children ($t=-3.37$, $p=0.001$). Moderate-income participants had a higher mean MLS score than those with low income ($F=3.63$, $p=0.02$).

Age, sex, education level, and having children affected participants’ mean CRSS subscale scores in Table 2. Female participants had a higher mean NCRS score than males ($t=-3.70$, $p<0.0001$). Older participants had a higher mean CRSS score than younger participants ($F=6.13$, $p<0.0001$). Male participants had a higher mean SCRS score than females ($t=4.08$, $p<0.0001$). Participants with a primary school degree had a higher mean CRSS score than those with a higher degree ($F=5.44$, $p<0.0001$). Participants with children had a higher mean Retreat Conflict Resolution Style (RCRS) score than those without ($t=2.15$, $p=0.03$).

Table 3 presents the mean scale and subscale scores and the correlations between them. MLS was negatively correlated with PSS and NCRS and positively correlated with spousal support (emotional, instrumental, informational, appraisal, and social support) ($p<0.05$). MLS was positively correlated with PCRS and SCRS ($p<0.05$). PSS was negatively correlated with SSS and positively correlated with NCRS ($p<0.05$). SSS was positively correlated with MLS and PCRS and negatively correlated with PSS and NCRS ($p<0.05$).

Table 4 presents the correlation between the scale scores and anxiety levels during the COVID-19 pandemic.
Table 3 The relationship between scale and subscale (n=511)

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|----|----|
| 1- MLS | r |    |    |    |    |    |    |    |    |    |    |
|     | p |    |    |    |    |    |    |    |    |    |    |
| 2- PSS | r | -0.14 |    |    |    |    |    |    |    |    |    |
|     | p | 0.00 |    |    |    |    |    |    |    |    |    |
| 3- SSS | r | 0.68 | -0.20 |    |    |    |    |    |    |    |    |
|     | p | 0.00 | 0.00 |    |    |    |    |    |    |    |    |
| 4- ES  | r | 0.65 | -0.17 | 0.96 |    |    |    |    |    |    |    |
|     | p | 0.00 | 0.00 | 0.00 |    |    |    |    |    |    |    |
| 5-IIS  | r | 0.62 | -0.19 | 0.91 | 0.83 |    |    |    |    |    |    |
|     | p | 0.00 | 0.00 | 0.00 | 0.00 |    |    |    |    |    |    |
| 6-AS   | r | 0.65 | -0.19 | 0.94 | 0.86 | 0.79 |    |    |    |    |    |
|     | p | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    |    |    |    |    |
| 7-SS   | r | 0.61 | -0.20 | 0.90 | 0.87 | 0.78 | 0.85 |    |    |    |    |
|     | p | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    |    |    |    |
| 8-PCRS | r | 0.24 | 0.09 | 0.21 | 0.19 | 0.19 | 0.20 | 0.19 |    |    |    |
|     | p | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    |    |    |
| 9-NCRS | r | -0.19 | 0.21 | -0.22 | -0.19 | -0.22 | -0.24 | -0.20 | -0.15 |    |    |
|     | p | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |    |    |
| 10-SCRS | r | 0.09 | 0.08 | -0.03 | -0.02 | -0.03 | 0.01 | -0.04 | 0.12 | -0.20 |    |
|     | p | 0.02 | 0.06 | 0.46 | 0.59 | 0.46 | 0.76 | 0.31 | 0.00 | 0.00 |    |
| 11-RCRS | r | -0.02 | 0.00 | -0.07 | -0.04 | -0.09 | -0.05 | -0.06 | -0.00 | -0.23 | 0.49 |
|     | p | 0.63 | 0.97 | 0.10 | 0.28 | 0.03 | 0.24 | 0.11 | 0.88 | 0.00 | 0.00 |

M±SD 33.10±4.78 40.50±6.97 67.30±12.80 22.70±4.50 17.80±3.32 19.50±4.14 7.10±1.74 27.00±5.03 17.30±6.26 22.90±6.37 23.80±6.88

MLS: Marital Life Scale; PSS: Perceived Stress Scale; SSS: Spousal Support Scale; ES: Emotional Support; IIS: Instrumental and Informational Support; AS: Appraisal Support; SC: Social Support; P CRS: Positive Conflict Resolution Style; NCRS: Negative Conflict Resolution Style; SCRS: Subordination Conflict Resolution Style; RCRS: Retreat Conflict Resolution Style
Participants’ anxiety at the onset of the COVID-19 pandemic was positively correlated with PSS and NCRS and negatively correlated with social support. Their anxiety in the last week was positively correlated with PSS, while their anxiety regarding their health was positively correlated with PSS and NCRS.

A multiple regression analysis was used to determine the effect of perceived stress, spousal support, and conflict resolution style on marital satisfaction. The results revealed that the model fit the data ($F = 53.88; p < 0.001$) (Table 5). Positive and subordination conflict resolution styles and emotional, instrumental, and appraisal spousal support accounted for 48.30% of the total variance of marital satisfaction. Emotional spousal support had the largest effect on marital satisfaction (beta=0.25). A one-unit increase in the SSS “emotional” subscale was associated with an increase of 0.27 units in the MLS score.

### Discussion

The COVID-19 pandemic is a global crisis that has caused physical, mental, social, behavioral, and economic problems worldwide. People have been suffering not only from health-related anxiety but also from stress, uncertainty, depression, and social isolation. These adverse effects have resulted in family conflicts and domestic violence on one hand but have also enhanced support and bonding between couples on the other. This study investigated the relationship among perceived stress, conflict resolution styles, spousal support, and marital satisfaction during the COVID-19 quarantine. It was found that the anxiety levels of married participants had increased due to the emotional, mental, social, and economic difficulties they had experienced as a result of the pandemic; this caused problems in their marital life. It was found that with the increased stress levels of spouses, spousal support and marital satisfaction decreased, and that as spousal support increased, marital satisfaction and positive conflict resolution increased. Further, the regression analysis revealed that positive conflict resolution and spousal support have significant associations with marital satisfaction. The most important finding was that the level of emotional support that spouses gave to each other in a situation of increased stress and anxiety had a more predictive effect on marital satisfaction than the other factors that were studied. The results of the study are discussed in line with the literature.

| Table 4 The relationship between anxiety levels and scale scores | Anxiety Levels Onset of the COVID-19 | Anxiety Levels Last Week | Anxiety Levels about Health |
|---------------------------------------------------------------|--------------------------------------|-------------------------|---------------------------|
| PSS r 0.24 p 0.00** | 0.21 p 0.00** | 0.31 p 0.00** |
| MLP r -0.02 p 0.56 | 0.08 p 0.06 | 0.01 p 0.74 |
| SSS r -0.06 p 0.16 | 0.044 p 0.32 | -0.00 p 0.93 |
| Emotional Support r -0.06 p 0.13 | 0.05 p 0.23 | -0.00 p 0.94 |
| Instrumental and Informational Support r -0.04 p 0.32 | 0.02 p 0.62 | 0.00 p 0.85 |
| Appraisal Support r -0.04 p 0.36 | 0.06 p 0.15 | 0.00 p 0.84 |
| Social Support r -0.09 p 0.02 | 0.02 p 0.56 | -0.05 p 0.20 |
| P CRS r 0.02 p 0.54 | 0.01 p 0.66 | 0.04 p 0.29 |
| N CRS r 0.11 p 0.01 | -0.01 p 0.71 | 0.09 p 0.03* |
| S CRS r -0.01 p 0.82 | 0.01 p 0.72 | 0.01 p 0.74 |
| R CRS r -0.03 p 0.49 | -0.01 p 0.76 | 0.00 p 0.97 |

MLS: Marital Life Scale; PSS: Perceived Stress Scale; SSS: Spousal Support Scale; P CRS: Positive Conflict Resolution Style; N CRS: Negative Conflict Resolution Style; S CRS: Subordination Conflict Resolution Style; R CRS: Retreat Conflict Resolution Style *p < 0.05 **p < 0.01

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We believe that the results of this study will help family experts develop and implement strategies to help couples in times of uncertainty and crisis (Stanley & Markman, 2020). For participants in this study, the challenges of the COVID-19 quarantine were emotional and mental stress, having to postpone important plans, financial loss or job loss, and marriage and family problems. The participants had anxiety scores above the normal range at the onset of the COVID-19 pandemic. Although their scores decreased upon the launch of controlled normalization in June 2020, they were nevertheless higher than the normal range. Social isolation during the COVID-19 pandemic has been challenging for people worldwide. People have been experiencing significantly higher levels of stress, anxiety, and depression during this period and also attempting to deal with deteriorating family relationships due to economic problems and employment concerns since the onset of the pandemic (James Riegler et al., 2020; Lebow, 2020; Wang et al., 2020; Zhang et al., 2020).

Younger participants had a higher mean SSS score probably because they were newlyweds. Male participants had a higher mean SSS score than females during the COVID-19 lockdown. In Turkish culture, females are typically responsible for household decisions; the added stress of the lockdown may be linked to lower SSS in females, as the lockdown would have complicated daily stress in the home (e.g., through things like having children at home during the day). Further, participants with a bachelor’s degree had a higher mean SSS score, as education makes people more sensitive to gender equality and equal sharing of household tasks. Participants without children had a higher mean SSS score, probably because they were newlyweds and, therefore, more likely to support each other and empathize with each other. High-income participants had a higher mean SSS score, probably due to increased levels of awareness due to higher education. Günsel (2013) found that males and those with children had higher SSS scores, but that spousal support scores increased with age.

### Table 5 The effect of scale scores on marital life scales

| Model | Sum of Squares | df | Mean Square | F    | p      | Adjusted R² | R² | R² Adjusted | Durbin Watson | N | p     |
|-------|----------------|----|-------------|------|--------|--------------|----|-------------|---------------|---|-------|
| Regression | 5743.89 | 9 | 638.21 | 53.88 | <0.0001 | 0.492 | 0.48 | 53.88 | 0.48 | 0.0001 | 1.976 | 511 | <0.0001 |
| Residual | 5934.28 | 501 | 11.84 | | | | | | | | | | | |
| Total | 11,678.18 | 510 | | | | | | | | | | | |

Model Unstandardized Coefficients Standardized Coefficients t p Confidence Interval (95.0%)

| B     | Standard Error | Beta   | t      | p      | Lower Bound | Upper Bound |
|-------|----------------|--------|--------|--------|-------------|-------------|
| Constant | 13.27 | 1.81 | 7.32 | <0.0001 | 9.71 | 16.83 |
| PSS | -0.00 | 0.02 | -0.01 | -0.34 | 0.73 | -0.05 | 0.03 |
| PCRS | 0.08 | 0.03 | 0.08 | 2.54 | 0.01 | 0.01 | 0.14 |
| NCRS | -0.00 | 0.02 | -0.01 | -0.28 | 0.77 | -0.06 | 0.04 |
| SCRS | 0.09 | 0.02 | 0.12 | 3.26 | 0.00 | 0.03 | 0.14 |
| RCRS | -0.02 | 0.02 | -0.04 | -1.09 | 0.27 | -0.08 | 0.02 |
| Emotional Support | 0.27 | 0.08 | 0.25 | 3.18 | 0.00 | 0.10 | 0.44 |
| Instrumental and Informational Support | 0.24 | 0.08 | 0.16 | 2.71 | 0.00 | 0.06 | 0.41 |
| Appraisal Support | 0.27 | 0.08 | 0.24 | 3.39 | 0.00 | 0.11 | 0.44 |
| Social Support | 0.10 | 0.19 | 0.03 | 0.52 | 0.60 | -0.28 | 0.49 |

R = 0.70 R² = 0.492 Adjusted. R² = 0.48 F = 53.88, Durbin Watson = 1.976, N = 511, p < 0.0001

PSS: Perceived Stress Scale; PCRS: Positive Conflict Resolution Style; NCRS: Negative Conflict Resolution Style; SCRS: Subordination Conflict Resolution Style; RCRS: Retreat Conflict Resolution Style

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Younger participants had a higher mean MLS score, probably because they were newlyweds with lower expectations and more conflict avoidance. Taşköprü (2013) also reported a negative correlation between the duration of marriage and marital satisfaction, but Çelik (2006) found no relationship between the two. Male participants had a higher mean MLS score, probably because they did not pull their weight in household chores during the COVID-19 lockdown. Further, a positive correlation was found between education level and marital satisfaction (Kaya, 2017) because people with higher education are likely to cope with stress better, thereby resulting in marital satisfaction (Çelik, 2006). Participants living in cities with curfew ordinances had a higher mean MLS score, probably because they were mostly big cities where couples adopted a more egalitarian approach to the division of household tasks. Participants without children had a higher mean MLS score, probably because they devoted their time and energy to their own needs, while those with children had to deal with their children's needs and problems, making them less satisfied with their marriage. Twenge et al. (2003) also reported that couples with children were less satisfied with their marriage than those without children. Moderate-income participants had a higher mean MLS score, probably because they faced fewer financial problems than people with low income.

Female participants had a higher mean NCRS score than males. Although we did not measure this, females may have been more likely to respond to conflicts with verbal and physical aggression during the COVID-19 lockdown (Çakmak Tolan, 2015) because they felt the toll of juggling between work and family responsibilities. This is a conjecture which needs to be investigated further. Older participants had a higher mean SCRS score, probably because they were more likely to acquiesce to their partners' demands, particularly in times of stress, like social isolation. Male participants had a higher mean SCRS score, thereby suggesting that they might have made compromises instead of remaining headstrong in a discussion or an argument during the COVID-19 lockdown. This is merely a conjecture, and it requires additional study, as do many of our suggested conclusions. Participants with a primary school degree had a higher mean SCRS score probably because they tended to social values and traditions to resolve their marital conflicts. Older participants had a higher mean RCRS score, probably because they tended to respect their partners' opinions and make compromises instead of arguing. Participants with children had a higher mean RCRS score, probably because they avoided arguing in front of their children during the COVID-19 lockdown.

Further, marital satisfaction was negatively correlated with perceived stress and negative conflict resolution style and positively correlated with spousal support (emotional, instrumental, informational, appraisal, and social support). On the other hand, marital satisfaction was positively correlated with positive and subordination conflict resolution styles. Spousal support was negatively correlated with perceived stress and negative conflict resolution style. Moreover, economic problems, instability, uncertainty, anxiety, fear, and scarce social support during the COVID-19 pandemic disrupted family life (Cluver et al., 2020; Usher et al., 2020). Pieh et al. (2020) also reported a negative correlation between perceived stress and marital satisfaction and spousal support during the COVID-19 lockdown.

Participants with higher levels of anxiety at the onset of the COVID-19 pandemic and in the last week of lockdown and those with higher levels of anxiety regarding health, in general, had higher PSS scores. In addition, those with higher anxiety levels at the onset of the COVID-19 pandemic and those generally anxious regarding health had higher NCRS scores. Those with higher anxiety levels at the onset of the COVID-19 pandemic had lower SSS “social support” subscale scores. People had also experienced increased stress levels during the outbreak of the severe acute respiratory syndrome (SARS) in 2002–2004 (Chua et al., 2004; Lee et al., 2007). Shevlin et al. (2020) found that the COVID-19 pandemic contributed to more stress in married couples with children. The COVID-19 pandemic and its repercussions in daily life caused uncertainty, stress, panic, and fear (Karataş, 2020), exacerbated by news reports regarding the pandemic, economic problems (Cluver et al., 2020), the fear of becoming infected and losing loved ones, prolonged physical and social isolation (Ahorsu et al., 2020; Brooks et al., 2020; de Lima et al., 2020), and rapid changes in daily life during the lockdowns and quarantine periods (Cluver et al., 2020). Those adverse experiences led to a rise in marital conflict, thereby resulting in couples denying each other the support they needed.

The multiple regression analysis revealed that marital satisfaction was significantly affected by positive conflict resolution styles and spousal support. In general, research shows a positive correlation between spousal support and marital satisfaction (Çağ & Yıldırım, 2013; Kabasakal & Soylu, 2016; Yedirir & Hamata, 2015). A few studies also report that positive conflict resolution styles predict marital satisfaction (Çakmak Tolan, 2015; Erdem Özkan, 2019).

Conclusion

The COVID-19 pandemic has resulted in a global standstill, with massive political, economic, and social effects on countries and psychosocial effects on individuals. Couples have found themselves navigating new problems brought about by the pandemic and the preventive measures taken by countries to curb its spread. Therefore, experts must enable couples
to develop strategies to cope with stressors and resolve conflicts in times of crisis; couples must be encouraged to support each other and build a strong bond. Such strategies will help families and, thus, the entire society overcome such unforeseen crises. It is recommended that future studies be conducted with larger sample and different cultural groups, as well as qualitative and mixed methods research to evaluate the experiences of the spouses more deeply. At the same time, the impact of the pandemic process on spouses should be evaluated by longitudinal studies. Future studies can also add more and new variables.

Limitation of the Study

This study had three limitations. First, it was a web-based study that employed the snowball sampling method. Therefore, the sample consisted of people from similar socioeconomic status who could complete online surveys. Second, the sample was demographically homogeneous and, therefore, the results cannot be generalized to the entire population. Third, this was a correlational and descriptive cross-sectional study. Longitudinal investigations must be conducted in future studies to assess the effects of the COVID-19 pandemic. Future studies could also employ qualitative research methods and recruit people representing all socioeconomic groups to assess the predictors of marital satisfaction during the COVID-19 pandemic.

Data availability The datasets generated during and/or analyzed during the current study are available from the corresponding author on reasonable request.

Declarations

Ethical Approval All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

Informed Consent Informed consent was obtained from all individual participants included in the study.

Conflict of Interest The authors personally have not received any funding for this project. Therefore, the authors declare that no conflict of interest exists.

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