Understanding relational resilience of married adults in quarantine days

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Abstract
Quarantine and isolation caused by COVID-19 pandemic revealed a new stress condition in marriage relationship. This study aimed to investigate, under quarantine and isolation days, how relational resilience in marriage is explained with their psychological distress, and mediation roles of negative and positive dyadic coping in the marriage relationship between psychological distress and relational resilience. Data of the research study was obtained via an online form two months after the announcement of the pandemic in Turkey. The participants were 386 married people (49.7% were men, 50.3% women) who ranged in age from 23 to 65 years (M = 37.35, SD = 10.10). Participants were given Personal Information Form, The Relational Resilience Scale, The Dyadic Coping Inventory, Kessler Psychological Distress Scale, and Intolerance of Uncertainty Scale. Results showed that negative and positive coping have mediating influence on psychological stress of married individuals and their relational resilience during quarantine. It is seen that especially in quarantine days, positive coping strategies of married individuals, in coping with these conditions, is an important factor increasing relational resilience.

Keywords  Relational resilience · Psychological distress · Intolerance of uncertainty · Dyadic coping · Covid-19 pandemic

Introduction
Throughout history, human beings have experienced a large number of viral epidemics caused by different factors like plague, malaria, cholera, H1N1 influenza a, SARS, Ebola, MERS, etc.. Coronavirus (Covid-19) spreading from Wuhan city of China at the end of 2019 is one of these diseases. The recent Covid-19 pandemic was described as a pandemic condition which has important influences on public health and mental health by World Health Organization (WHO, 2020) and countries took social-physical isolation precautions and announced a quarantine condition for all people in the world in order to prevent the spread. The rapid spread potential of this pandemic, its unpredictability, mortality rates and quarantine and being under the conditions of social and physical isolation created restricting and compelling situations from many sides in living spaces of individuals. This condition leads to changes not only in mental health but also in marital relationships (Knoster et al., 2020; Pieh et al., 2020; Pietromonaco & Overall, 2021) via stressors like partners’ being together for 24 h within home because of quarantine, changes in time spent together, shared things and rituals, dealing with children steadily at home, and economic difficulties caused by Covid-19, etc. (Pietromonaco & Overall, 2021; Prime et al., 2020). Under the circumstances of pandemic and crisis and stress condition caused by it, protecting the couple relationship balance system, discovery of the resources preventing disconnectedness in relationship caused by stress is necessary for a positive and healthy relationship and being a strong couple (Stanley & Markman, 2020).

In literature, resilience is described as a process containing a positive adaptation growth after negative life events, traumatic events (Luthar et al., 2000). Resilience is an important resource providing relationship satisfaction at difficult times (Bradley & Hojjat, 2017). Furthermore, relational resilience is
a relational phenomenon dealt together with concepts of reinforced vulnerability, mutual emphatic, relational confidence, mutual empowerment and relational awareness stressing mutual development when there is a disconnectedness taking place as a result of stress conditions experienced in a relationship (Jordan, 2005). Relational resilience has gained widespread attention in marital research in recent years (Aydogan & Dincer, 2020; Aydogan & Kizildag, 2017; Venter & Snyders, 2009)

Moreover, when negative influences of Covid-19 pandemic on mental health on an individual basis (for example, difficulty of toleration related to ambiguity of this situation and psychological distress) are taken into account it is predicted that this condition can lead married individuals to discover the ways of providing relational resilience and create influences on couples’ coping approaches. In the light of these explanations, the main focus of this study is to reveal how relational resilience predicts negative and positive dyadic coping approaches of psychological distress and intolerance of uncertainty during Covid-19 Pandemic.

**Psychological Distress and Intolerance of Uncertainty in Quarantine Days**

During the pandemic, having to be separated from their beloved ones, the fear of losing them and their own freedom because of isolation, feeling as if losing their control, fear of getting inflected, may cause individuals to experience ambiguities about the pandemic and anger bursts (Brooks et al., 2020). For example, in the research conducted by Jalloh et al. (2017) about the EBOLA epidemic, 6% of the participants were meeting the criteria for anxiety and depression and 16% were meeting diagnosis of PTSD (Post-Traumatic Stress Disorder). In another study conducted in China in order to determine the effects of Covid-19 Pandemic on mental health, it was found that the participants showed moderate levels of depressive symptoms, anxiety and high levels of stress (Salari et al., 2020; Wang et al., 2020). Additionally, it was also found that quarantine procedure creates negative mental effects like depression (Hawryluck et al., 2004; Rogers et al., 2020; Rubin & Wessely, 2020), irritability and lack of sleep (Lee et al., 2005), acute stress (Bai et al., 2004; Ye et al., 2020) and disorders related to trauma (Wu et al., 2009) especially in groups who are under more risk (e.g., healthcare professionals). These explanations show that psychological distress, which is described as emotional damage characterized by depression and anxiety symptoms (Mirowsky & Ross, 2002), is a significant determining factor indicating mental health of married individuals in quarantine days.

Another important factor about Covid-19 pandemic is that; the process of pandemic is quite unpredictable. Budner (1962) stated that uncertainty includes conditions or events which are unclear or are faced for the first time. Recently, uncertainties increase in economy, education, relationships and in subjects related to physical or mental health (Pietromonaco & Overall, 2021). People who are intolerant to ambiguity assume that ambiguity is something stressful and sad and they usually think that unexpected events are negative (Robichaud & Dugas, 2015). Studies propound that intolerance to ambiguity play an important role in development and maintenance of the anxiety condition (Dugas et al., 2005; Laugesen et al., 2003; Mahoney & McEvoy, 2012). As a matter of this fact, studies conducted on Turkish individuals have shown that the pandemic increases the risk of mental health problems (Ozdin & Bayrak Ozdin, 2020; Yilmaz & Eskici, 2020), and that intolerance to uncertainty has a significant direct effect on mental health (Satci et al., 2020). When studies are reviewed, it is inevitable that the uncertain and uncontrollable nature of Covid-19 will cause psychological problems (such as anxiety, stress, depression) for people who are unable to tolerate uncertainty. In researches it was found that in a marriage, couple’s psychological problems like depression influence marital relationship negatively (Rehman et al., 2008; Whisman & Uebelacker, 2009).

**Dyadic Coping to Relational Resilience in Marriage Relationship**

During the pandemic period, in marriages, economical concerns of one or two of the spouses, losing jobs, economic hardship, challenge of maintaining their job from home during quarantine period, parental stress caused by education and care of children, changes in relationship with close environment, problems related to health condition of family, the fear that one of the family members will be infected, and ambiguities of pandemic period create critical relationship difficulties on marital relationships (e.g., Daks et al., 2020; Lee et al., 2020a, b; Lian & Yoon, 2020; Pietromonaco & Overall, 2021). Furthermore quarantine may increase contact between partners and exacerbate a potential conflict (Mazza et al., 2020). In addition, when it is thought that marriages are affected by the situations they are exposed to, it is expected that spouses give varied reactions. Stress is identified as a consistent predictor of low quality and instability of close relationships in adulthood (e.g., Randall & Bodenmann, 2009). In terms of marital relationships, Covid-19 pandemic seems to be an extra-relational stress condition as well. A stress condition arising from a relationship, on the other hand, plays a more significant role in the functionality of spouses (Bodenmann et al., 2007). That is, unexpected stress conditions could trigger some conflict and problems for the couples during the pandemic period. Moreover, when the duration of the stress is taken into account, this condition could be seen as an acute stressor (Karney et al., 2005).

Acute stress is a stress condition that may result from life-threatening or traumatic experiences of an individual (such as natural disasters, the loss of a loved one) as is the case with Covid-19 Pandemic. Although both acute and chronic stress
reduce relationship satisfaction, couples are more likely to have the resources to restore their relationship after acute short-term stress, but when the stress is severe, they may feel exhausted and have few resources to rely on (Karney et al., 2005). How partners react to each other under a pandemic-related stress is expected to affect creating their couple resilience in their relationship. Stress conditions experienced in a marriage create a context in which spouses have difficulty in meeting the needs of each other and thus affect the experience which makes it difficult to evaluate the relationship of each spouse (Karney et al., 2005). Such stress conditions may cause the increase in the probability of conflict and tension by decreasing the opportunity of activities empowering the relationship (e.g., Neff & Karney, 2017), urging spouses to react in a more aggressive manner (e.g., Bodenmann et al., 2010) and increasing probability of declining relationship satisfaction (e.g., Breitenstein et al., 2018).

However, a pandemic experience may help the improvement of marital relationships by strengthening the spouse relationships and activating the adaptive resources in a positive way. Furthermore an acute stress factor could really be positive for couples in that they rely on each other in terms of relationship resources and this experience could be an opportunity for couples’ strengthening of intimacy and relationship feelings (Karney et al., 2005). Some studies reveal that relational resilience is provided by the help of strong characteristics and resources that appeared in a relationship after some negative and traumatic experiences (e.g., Aydogan & Dincer, 2020; Aydogan & Kizildag, 2017). The use of dyadic coping approaches could also provide partners the feeling of “we-ness” and remain in a more stable and satisfactory relationship (Bodenmann, 1997). This is confirmed by such findings that negative and positive dyadic coping are more effective compared to individual coping in the functionality of a relationship (e.g., Papp & Witt, 2010).

When a life event that causes stress takes place, by using their resources so as to cope with stress, mental conditions of spouses could be changed temporarily (Karney et al., 2005). It can be deduced that in the pandemic period, spouses may rebalance their relationships and it is essential to evoke crucial resources using relationship resources which will help them move out of the crisis situation more functionally by challenging stress factors brought about by Coronavirus. In marital relationships, by the help of relational resilience, spouses not only achieve a balance after unfavorable life events, but also surpass their previous level of functionality (Venter & Snyders, 2009). On the other hand, spouses affect each other in coping processes during stay-at-home or quarantine periods. Therefore coping with stress as a couple is to be evaluated within a multidimensional structure context as supportive, delegated, negative and joint (common) dyadic coping (Ledermann et al., 2010). Assisting of one partner to the other via problem-focused or emotion-focused reinforcement (supportive dyadic coping), undertaking responsibility to decrease the stress of the other partner (delegated dyadic coping) and taking active roles as participants in order to cope with stressful events (joint dyadic coping) are characterized by positive dyadic coping. Negative dyadic coping, on the other hand, is seen in the form of hostility, ambivalence and superficiality (Bodenmann et al., 2018; Ledermann et al., 2010). Some studies assert that coping with stress as a couple is a crucial factor in terms of defining a marital relationship quality, relationship satisfaction and stability of the relationship (Bodenmann, 2005; Bodenmann & Cina, 2006; Ledermann et al., 2010). At the same time, a limited number of studies indicates that positive dyadic coping contributes to relational resilience of couples (Aydogan & Ozbay, 2018). Additionally, in some studies, it was found that positive dyadic coping increases both personal and relationship satisfaction and the amount of perceived stress has an effect on relationship satisfaction (Martos et al., 2019; Rusu et al., 2020). Besides, negative dyadic coping seems to be affecting relationship satisfaction negatively (Martos et al., 2019).

Current Study

Covid-19-related stress may have an effect on individuals’ mental health including fear, anxiety, depression, boredom, anger, disappointment, hyper-sensitivity, and stigmatization. (American Psychological Association (APA), 2020). In addition, it can be seen in the marriage relationship that the stress situations associated with the Covid-19 pandemic cause changes in the couple relationship processes, and even cause behaviors such as withdrawal and less supportive behavior among some couples (Pietromonaco & Overall, 2021). On the other hand, the changes that couples experience together with the pandemic affect not only their marital relationship, but also the parent-child relationship, even family relations and family well-being as a system (Prime et al., 2020). Therefore, in the case of uncertainty and psychological stress associated with the stress because of Covid-19, revealing the dual coping approaches of married individuals on the way that provides relational resilience will open up an opportunity to comprehend family relations as a system. Relational resilience is conceptualized as stress-related growth, post-traumatic growth, development and finding benefit and the concept is regarded as a dynamic process in which couples may exhibit better adaptation outcomes in diverse periods at the same time (Gamarel & Revenson, 2015). The aim of this study is to test mediating effects of dyadic positive and negative coping by examining direct effects of psychological stress caused by acute stress experienced during the pandemic period on relational resilience. Given the literature review above, it would not be wrong to say that there are potentially significant relationships among the variables of psychological distress, negative dyadic coping, positive dyadic coping and relational resilience. It is considered that psychological distress would
predict relational resilience at a significant level; psychological distress would significantly predict negative dyadic coping and positive dyadic coping which would in turn significantly predict relational resilience. Consequently, we have created a model for examining the mediator role of negative and positive dyadic coping in the relationships between psychological distress and relational resilience of married individuals. Comprehending the mental states of married individuals who suffer from acute stress due to the Covid-19 pandemic and how they face and respond to the stress they experience is critical for understanding relational resilience in a marriage. This will help develop relational empowerment approaches and practices in such stressful times.

Method

Participants

The participants of this study were reached two months after the pandemic was declared in Turkey in March 2020. In this study, people in quarantine due to the Covid-19 pandemic process, living with their spouses and could answer the questionnaires online, were contacted using the purposeful sampling method. In addition to this, the participants of this study include the married individuals from different cities of Turkey, but mostly the ones living in Istanbul, Ankara, Izmir, Konya, Isparta, Gaziantep, Ordu provinces during the quarantine period. Individuals diagnosed with Covid-19 were not included in the study. The participants consisted of 386 married people (49.7% were men, 50.3% women) who ranged in age from 23 to 65 years (M = 37.35, SD = 10.10). The mean duration of marriage was 9.15 (SD = 10.41) years. 269 of the participants (73.1%) had child/children. When the number of children was investigated, it was found that 128 of the participants had (34.8%) one child, 106 of them had two children (28.8%), 27 of them had three children (7.3%) and 8 participants had four children (2.2%). Additionally, during the pandemic period, children of 134 (36.4%) participants maintained their education at home via distance education. 238 (76.9%) of the participants stated that the pandemic influenced their education at home via distance education. 238 (76.9%) of the participants stated that the pandemic influenced their education at home via distance education. The participants of this study were reached two months after the pandemic was declared in Turkey in March 2020. In this study, people in quarantine due to the Covid-19 pandemic process, living with their spouses and could answer the questionnaires online, were contacted using the purposeful sampling method. In addition to this, the participants of this study include the married individuals from different cities of Turkey, but mostly the ones living in Istanbul, Ankara, Izmir, Konya, Isparta, Gaziantep, Ordu provinces during the quarantine period. Individuals diagnosed with Covid-19 were not included in the study. The participants consisted of 386 married people (49.7% were men, 50.3% women) who ranged in age from 23 to 65 years (M = 37.35, SD = 10.10). The mean duration of marriage was 9.15 (SD = 10.41) years. 269 of the participants (73.1%) had child/children. When the number of children was investigated, it was found that 128 of the participants had (34.8%) one child, 106 of them had two children (28.8%), 27 of them had three children (7.3%) and 8 participants had four children (2.2%). Additionally, during the pandemic period, children of 134 (36.4%) participants maintained their education at home via distance education. 238 (76.9%) of the participants stated that the pandemic influenced their education at home via distance education. 238 (76.9%) of the participants stated that the pandemic influenced their education at home via distance education.

Measures

Relational Resilience Scale (RRS) The RRS developed by Aydogan and Ozbay (2015) is a self-report instrument made up of 27 items that measures a couple’s recovery ability after they encounter negative life experiences. The RSS includes four subscales: actor (6 items, e.g., I try to emphasize when partner is in trouble or have hard time), partner (6 items, e.g., In times of distress and difficulty, my partner convinces me that everything will be better), union (10 items, e.g., We know that we can endure all kinds of difficulties together), and spirituality (5 items, e.g., I ask my partner to pray for everything to go well). Participants scale their responses on a 7-point (1 = never to 7 = always). The total score ranges from 27 to 151, with higher scores indicating more relational resilience. In this study, Cronbach’s Alpha coefficient for the overall scale was .93.

Dyadic Coping Inventory (DCI) This scale was developed originally by Bodenmann (2008) and adapted to Turkish form by Eren Kurt and Akbas (2019). The DCI is a 37-item self-report questionnaire that measures the extent to which couples actively help each other during stressful times. Each questionnaire item is scaled on “never” to “very often”. This scale assesses positive dyadic coping (i.e., delegated dyadic coping, emotion focused support, problem focused support, problem focused joint dyadic coping, emotion focused joint dyadic coping) and negative dyadic coping of individuals. By means of DCI, three other separate total scores could be obtained as well; the perception of the individual about his/her own dyadic coping behaviors with stress, the perception of the individual about his/her spouse’s dyadic coping behaviors with stress, and their common coping behaviors together with the spouse when they perceive a stressful condition or sub-scales can be scored separately. However in this study, negative dyadic coping (8 items, e.g., I blame my partner for not coping well enough with stress) and positive dyadic coping (19 items, e.g., I show empathy and understanding to my partner) sub-dimensions were used. Cronbach’s Alpha coefficient was found as .81 for negative dyadic coping sub-dimension and Cronbach’s Alpha coefficient was found as .91 for positive dyadic coping sub-dimension.

Intolerance of Uncertainty Scale (IUS) It was developed with the purpose of measuring the emotional and behavioral reactions individuals experience in ambiguous conditions. The English form of the scale was developed by Buhr and Dugas (2002) and its adaptation to Turkish form was made by Sari and Dag (2009). The scale consists of 26 items and scored according to 5-point-Likert type (1 = strongly disagree to 5 = strongly agree). The scale consists of four sub-dimensions: (I) Uncertainty leads to the inability to act (5 items, e.g. Uncertainty stops me from having a strong opinion), (II) Uncertainty is stressful and upsetting (9 items, e.g. Uncertainty makes life intolerable), (III) Negative self-evaluations of uncertainty (8 items, e.g. I must get away from all uncertain situations), (IV) Being uncertain about the future is unfair (4 items, e.g. I always want to know what the future
has in store for me). Getting high scores from scale indicates that an individual’s intolerance to uncertainty is high. In this study, Cronbach’s Alpha coefficient for the overall scale was .89.

**Kessler Psychological Distress Scale (K10)** In this study, for the assessment of psychological distress of participants during pandemic period Kessler Psychological Distress Scale (K10-PDS), which is adapted into Turkish form by Altun et al. (2019), was used. The scale measures the frequency of symptoms related to mental conditions such as anger and hopelessness, etc. (Altun et al., 2019). The scale consists of 10 items (e.g. *In the past 4 weeks, about how often did you feel nervous?*) and the answers were scaled from 1 = never to 5 = always. The higher scores from the scale indicate the excess of mental distress. In this study, Cronbach’s Alpha coefficient for the overall scale was .89.

**Procedure and Analysis**

Prior to data collection, an approval was obtained from the Ethical Committee of the Suleyman Demirel University. The data of the study were obtained two months after the pandemic was declared, from April 29 to May 10. In the study, data collection tools were transformed into a battery, and along with informed consent forms, they were sent to individuals who were in contact with researchers, accessible, volunteer to participate in and could answer online questionnaires, and married individuals. In the study, only one of the spouses for each couple was contacted to answer measurement tools. It lasts about 15–20 min to respond to the questionnaires.

In the analysis of the data, SPSS 24.0 and AMOS 24.0 programs were used. In order to make an analysis from the data collected, cleaning and organizing procedures were conducted. For this purpose, by using frequency analysis, empty, lost and incorrect data were controlled. For the extreme value analysis, the data were converted to standard Z scores and the data belonging to the 29 participants were seen to be extreme values (except ±3.29) and removed from the data set and analysis was conducted on 368 data. In the study, before investigating the correlation analysis between variables or direct or indirect effects, it was investigated whether variables were complied with or not in accordance with normal distribution. By taking into account the fact that normality tests have a tendency to be significant for great samples, skewness and kurtosis coefficients were examined and graphics’ closeness to normality rates were examined. The lowest and highest skewness values were between −.47 and .79. The lowest and highest kurtosis values were between −.49 and .26. Values between −1.5 and + 1.5 were taken as the criteria for rankings (Tabachnick & Fidell, 2013).

In this study, Structural Equation Model (SEM) was completed in two stages according to the suggestions of Anderson and Gerbing (1984). First, measurement model of the variables in the study were tested using confirmatory factor analysis and then a hypothetical model was tested. Measurement model and structural model were calculated via Maximum Likelihood Estimation technique. Maximum Likelihood Estimation method is evaluated as a good choice for average and big sample sizes for verification of the normality and independence assumptions (Ullman, 2015). Verification of the tested structural models was explained using Chi-square, CFI, GFI, RMSEA, and TLI values fit indices. Kline (2015) suggests reporting of at least four fit indices. In order to test the goodness of fit of the models created, χ² / sd ratio. If this value is under 3, this means a good fit (Kline, 2015; Tabachnick & Fidell, 2013), however, there are researchers who come to terms with this value to be below 5 (Bollen, 1989). For RMSEA ≤.06 -.08 value shows acceptable fit indices (Hooper et al., 2008). For GFI, it shows an acceptable fit index between .08 -.09 values (Greenspoon & Saklofske, 1998). In addition, it is stated in the literature that if the CFI and TLI values are approximately .90, it forms a criterion for the fit of the model with the data (Schermelleh-Engel et al., 2003).

**Results**

**Preliminary Analysis**

Before conducting the mediating effect analysis, we examined the inter-correlations among the variables of the study. Table 1 includes these correlations and basic descriptive statistics within the total sample. The bivariate correlations between relational resilience and intolerance of uncertainty, psychological distress, negative dyadic coping, positive dyadic coping proved to be statistically significant and it also appeared that there was a negative significant correlation between relational resilience and intolerance of uncertainty (r = -.15, p < .01) and psychological distress (r = -.31, p < .01), and negative dyadic coping (r = -.39, p < .01). And also relational resilience was positively associated with positive dyadic coping (r = .65, p < .01). Besides, married individuals’ intolerance to uncertainty related to the pandemic period indicated a low correlation with relational resilience, therefore, it was excluded from the model.

**Measurement Model**

Confirmatory factor analysis (CFA) was performed to evaluate the measurement model. Measurement model included four latent variables (psychological distress, negative dyadic coping, positive dyadic coping, and relational resilience). An initial examination of the measurement model provided good fit indices: χ² (318) = 919.16, p < .001, χ²/df = 2.89, CFI = .88, GFI = .84, TLI = .87 and RMSEA = 0.07.
Standardized coefficients of the measurement model gain significance at .01 levels. It is noted that $\chi^2$ /df value is good fit indices (Kline, 2015; Tabachnick & Fidell, 2015), RMSEA and GFI values are acceptable fit indices (Greenspoon & Saklofske, 1998; Hooper et al., 2008). Besides, it is stated that CFI and TLI values are close to acceptable values (Schermelleh-Engel et al., 2003). Based on these results it may be suggested that the measurement model substantially meets the necessary conditions in the structural model.

The Structural Model

In this study, psychological distress was used as the predictor variable; negative and positive dyadic coping as mediators; and relational resilience as a dependent variable. The latent variable of psychological distress had ten indicators (the ten items of psychological distress). The latent variable of negative dyadic coping had eight indicators (the eight items of negative dyadic coping), and positive dyadic coping was represented by emotion focused support, problem focused support, delegated dyadic coping, emotion-focused joint, problem focused joint. To test the mediating model via AMOS software program, in the first stage, the relationship between psychological distress and relational resilience was evaluated and the specific indirect effect via positive dyadic coping ($\beta = .17$, 95% bootstrap, $CI = -.28$ to $.09$, $p = .002$) and the specific indirect effect via positive dyadic coping ($\beta = -.26$, 95% bootstrap $CI = -.35$ to $-.18$, $p = .002$) are indicated in Table 2.

Discussion

The aim of this study is to evaluate the direct effects of psychological distress on relational resilience between married couples and the mediator effect of negative and positive dyadic coping between these two variables. Results reveal the direct negative effects of psychological distress on relational resilience that married individuals experience during quarantine days in their marriage. In addition, findings also indicate that negative and positive dyadic coping have a full mediator effect between psychological distress and relational resilience. This result reveals the significance of particularly positive dyadic coping in empowering the married individuals in terms of their relationship during the quarantine.

Measures taken in many countries to control the spread of the coronavirus seems to have a devastating effect on relationships in general and family relationships in particular (Luttik et al., 2020). Direct connections between psychological distress and relational resilience comprise a basis for the findings obtained in the model. Some studies state that quarantine causes depression and anxiety which signify a negative mental health issue (Hawryluck et al., 2004; Rogers et al., 2020; Rubin & Wessely, 2020; Wang et al., 2020). Here, it should
be noted that there are time-dependent issues in the evaluation of obtained findings. The first quarantine procedure began on April 2, 2020 in Turkey and the data of this study was obtained in May, two months after the quarantine and that means there is approximately two months of time span after the pandemic starts. The fact that the uncertain situation related to Covid-19 Pandemic could have created a suitable basis for the emergence of psychological problems at that time is discussed in this study. Some other studies which argue that intolerance to uncertainty leads to psychological problems like

Table 2  Standardized indirect effects and 95% confidence intervals

| Model pathways                                      | Estimate | SE  | BC %95Cls Low | BC %95Cls Up | p      |
|-----------------------------------------------------|----------|-----|---------------|--------------|--------|
| Psychological D→Negative DC → Relational Resilience | −.17     | .04 | −.28          | −.09         | .002   |
| Psychological D→Positive DC → Relational Resilience | −.26     | .04 | −.35          | −.18         | .002   |

*Note. BC = bias corrected; CI = confidence interval; DC = Dyadic coping

*a*p < .01
and psychological well-being. Similarly, Falconier et al. (2015) showed that both dyadic coping measures are related to relationship quality and satisfaction. For example, Bodenmann (2008) studies stated that dyadic coping is related to relationship satisfaction. Results reveal that dyadic coping is related to relationship satisfaction. For example, Bodenmann (2008) studies stated that both dyadic coping measures are related to relationship quality and psychological well-being. Similarly, Falconier et al. (2015) stated that both, positive dyadic coping and negative dyadic coping contributed significantly to relationship satisfaction. However, in this study, it appears that positive dyadic coping, in particular, which is one of the dyadic coping styles of married couples, makes a great contribution to explaining relational resilience. Especially in quarantine days, in terms of marriage relationship maintaining behaviors, helping daily hassles of each other, showing empathy, utilizing solidarity, helping each other in diminishing the level of stress and positive coping including the effort to cope this situation by common participation are predicted as critical resources empowering and improving relational resilience. In addition, in the study investigating the relationship between depression, anxiety and stress and relationship resilience in married individuals during the COVID-19 pandemic, it was detected that the individuals with high level of relational resilience have low levels of depression, anxiety and stress (Unver & Guloglu, 2021). It was observed that couples who displayed positive dyadic coping in stressful times were able to reduce their distress and improve each other’s psychological health (Alves et al., 2019). In some studies, it is claimed that higher coping skills can help alleviate stressful situations during a pandemic (Chen & Bonanno, 2020; Lee et al., 2020a, b) and increase relationship satisfaction in the early pandemic crisis (Williamson, 2020). Emotional contact is a factor that affects the constructiveness of family relationships individually between spouses during the quarantine (Sorokoumova et al., 2020). This result also proves valuable evidence to the empowering of marriage relationships with the way of positive dyadic coping in quarantine days caused by the pandemic. Couples’ dyadic coping competences can be a way to improve partners’ ability to deal with the stress and epidemic-related concern (Prime et al., 2020). Besides, in some studies, it appeared that support of spouses against coercive life conditions (Aydogan & Kizildag, 2017) and positive dyadic coping increase relational resilience (Aydogan & Ozbay, 2018). Likewise, in another study it is claimed that positive dyadic coping increases relationship satisfaction and quality (Papp & Witt, 2010). This result reveals that positive dyadic coping enriches the relationships and empowers the emotional bond of couples after this acute stress making a great deal of contribution to relational resilience. From this point of view, it may be argued that a pandemic crisis can be seen as a chance or opportunity that provides the improvement of the relationship. That is, the more positive dyadic coping increases, the more relational resilience increases.

Limitations and Future Research Directions

Although this study has many strong sides, it also has some limitations. First of all, in this study, data related to dyadic stress, dyadic coping caused by the quarantine and relational resilience was obtained from one of the partners in a marriage. However, it is obvious that in face of a global pandemic, in order to understand relational resilience in marriage, studies based on the Actor-Partner Interdependence Model (APIM) and obtaining data from both of the partners in order to evaluate mutual effect are needed. Secondly, how married individuals cope with this condition based on the structural characteristics of a marriage varies in terms of reacting to the changes brought about by Covid-19 pandemic. For instance, for studies which are likely to make comparisons based on the duration of a marriage, the knowledge of having a child/children or in other words being a parent and evaluating relational resilience together with individual mental condition and dyadic stress and coping are needed.
Thirdly, as the pandemic goes on, it is necessary to evaluate married individuals’ marital stressors and personal stressors. This global pandemic was accompanied by a great number of stressors. For example, it can cause several stressful and traumatic life events like economic problems, one partner’s losing his/her job, infection of a family member with Covid-19 virus or losing a family member because of Covid-19. In this study, the stress condition of the participants is limited to the quarantine at that time. Complementary studies are needed to determine risks or traumatic experiences which could be evaluated together with the stress condition experienced with the pandemic. All these results would encourage positive mental health in strengthening the relationships of couples in case of encountering such unexpected and unprecedented life events such as pandemic (for example; well-being) and would contribute to improve interventions and approaches which will increase positive dyadic coping. In the light of all these, it would not be wrong to claim that development of relational-based resilience programs would contribute to couples not only on an individual basis, but also in setting up a strong couple identity, preventing conflicts and empowering relationships.

**Data Availability** The data that support the findings of this study are available from the corresponding author, upon reasonable request.

**Declarations**

**Conflict of Interest** The authors declare that they have no conflict of interest.

**Ethical Aproval** 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. This study was approved by University of Süleyman Demirel, Research Ethics Committee.

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

**References**

Alves, S., Milek, A., Bodenmann, G., Fonseca, A., Canavarro, M. C., & Pereira, M. (2019). Romantic attachment, dyadic coping, and parental adjustment across the transition to parenthood. *Personal Relationships, 26*(2), 286–309. [https://doi.org/10.1111/per.12278](https://doi.org/10.1111/per.12278)

Altun, Y., Ozen, M., & Kuloglu, M. M. (2019). Turkish adaptation of Kessler psychological distress scale: Validity and reliability study. *Anatolian journal of psychiatry, 20*(supplement 1), 23–31. [https://doi.org/10.5455/apd.12801](https://doi.org/10.5455/apd.12801)

American Psychological Association (APA) (2020). “Keeping Your Distance to Stay Safe” [https://www.apa.org/practice/programs/dmhi/research-information/social-distancing](https://www.apa.org/practice/programs/dmhi/research-information/social-distancing) Last accessed: 8 May 2020.

Anderson, J. C., & Gerbing, D. W. (1984). The effect of sampling error on convergence, improper solutions, and goodness-of-fit indices for maximum likelihood confirmatory factor analysis. *Psychometrika, 49*(2), 155–173. [https://doi.org/10.1007/BF02294170](https://doi.org/10.1007/BF02294170)

Aydogan, D., & Ozbay, Y. (2015). Development of relational resilience scale for married individuals. 13th National Congress of psychological counseling and guidance. Paper presented at the 13th National Congress of psychological counseling and guidance, Mersin, Turkey.

Aydogan, D., & Kizildag, S. (2017). Examination of relational resilience with couple burnout and spousal support in families with a disabled child. *The Family Journal, 25*(4), 407–413. [https://doi.org/10.1177/1066480717731215](https://doi.org/10.1177/1066480717731215)

Aydogan, D., & Ozbay, Y. (2018). Mediation role of dyadic coping on parenting stress and relational resilience in couples. *Marriage & Family Review, 54*(2), 128–147. [https://doi.org/10.1080/01494929.2017.1302900](https://doi.org/10.1080/01494929.2017.1302900)

Aydogan, D., & Dincer, D. (2020). Creating resilient marriage relationships: Self-pruning and the mediation role sacrifice with satisfaction. *Current Psychology, 39*(2), 500–510. [https://doi.org/10.1007/s12144-019-00472-x](https://doi.org/10.1007/s12144-019-00472-x)

Bai, Y. M., Lin, C. C., Lin, C. Y., Chen, J. Y., Chue, C. M., & Chou, P. (2004). Survey of stress reactions among health care workers involved with the SARS outbreak. *Psychiatric Services, 55*(9), 1055–1057. [https://doi.org/10.1176/appi.ps.55.9.1055](https://doi.org/10.1176/appi.ps.55.9.1055)

Bodenmann, G. (1997). Dyadic coping: A systemic-transactional view of stress and coping among couples: Theory and empirical findings. *European Review of Applied Psychology, 47*(2), 137–140.

Bodenmann, G. (2005). Dyadic coping and its significance for marital functioning. In T. A. Revenson, K. Kayser, & G. Bodenmann (Eds.), *Couples coping with stress: Emerging perspectives on dyadic coping* (pp. 33–49). American Psychological Association. [https://doi.org/10.1037/11031-002](https://doi.org/10.1037/11031-002)

Bodenmann, G., & Cina, A. (2006). Stress and coping among stable-satisfied, stable-distressed and separated/divorced Swiss couples: A 5-year prospective longitudinal study. *Journal of Divorce and Remarriage, 44*(1–2), 71–89. [https://doi.org/10.1080/030875506004471_04](https://doi.org/10.1080/030875506004471_04)

Bodenmann, G., Ledermann, T., & Bradbury, T. N. (2007). Stress, sex, and satisfaction in marriage. *Personal Relationships, 14*(4), 551–569. [https://doi.org/10.1111/j.1475-6811.2007.00171.x](https://doi.org/10.1111/j.1475-6811.2007.00171.x)

Bodenmann, G. (2008). Dyadic coping and the significance of this concept for prevention and therapy. *Zeitschrift für Gesundheitspsychologie, 16*(3), 108–111. [https://doi.org/10.1026/0943-8149.16.3.108](https://doi.org/10.1026/0943-8149.16.3.108)

Bodenmann, G., Meuwly, N., Bradbury, T. N., Gmech, S., & Ledermann, T. (2010). Stress, anger, and verbal aggression in intimate relationships: Moderating effects of individual and dyadic coping. *Journal of Social and Personal Relationships, 27*(3), 408–424. [https://doi.org/10.1080/0265407510361616](https://doi.org/10.1080/0265407510361616)

Bodenmann, G., Arista, L. J., Walsh, K. J., & Randall, A. K. (2018). Dyadic coping inventory. *Encyclopedia of Couple and Family Therapy, 1–5*. [https://doi.org/10.1007/978-3-19-15877-8_678-1](https://doi.org/10.1007/978-3-19-15877-8_678-1)

Bollen, K. A. (1989). A new incremental fit index for general structural equation models. *Sociological Methods & Research, 17*(3), 303–316. [https://doi.org/10.1177/0049124189017003004](https://doi.org/10.1177/0049124189017003004)

Bradley, J. M., & Hoijat, M. (2017). A model of resilience and marital satisfaction. *The Journal of Social Psychology, 157*(5), 588–601. [https://doi.org/10.1080/00224545.2016.1254592](https://doi.org/10.1080/00224545.2016.1254592)

Breitenstein, C. J., Milek, A., Nussbeck, F. W., Davila, J., & ve Bodenmann, G. (2018). Stress, dyadic coping, and relationship satisfaction in late adolescent couples. *Journal of Social and Personal Relationships, 35*(5), 770–790. [https://doi.org/10.1077/0265407517698049](https://doi.org/10.1077/0265407517698049)

Brooks, S. K., Webster, R. K., Smith, L. E., Woodland, L., Wessely, S., Greenberg, N., & Rubin, G. J. (2020). The psychological impact of quarantine and how to reduce it: Rapid review of the evidence. *The Lancet, 395*(10227), 912–920. [https://doi.org/10.1016/s0140-6736(20)30460-8](https://doi.org/10.1016/s0140-6736(20)30460-8)
