Subjective well-being in men and women during the COVID-19 lockdown: A structural model

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ABSTRACT

Introduction. As a measure for controlling COVID-19, lockdown has had a psychological impact on people. Since subjective well-being (SW) has been positively associated with mental health, the identification of its predictors in this context will enable it to be strengthened. Objective. To generate and test explanatory models for SW in men and women under lockdown due to the pandemic. Method. Four thousand seven hundred and seventy-one inhabitants of Mexico, with paid employment, under lockdown, answered a set of instruments via the Internet that evaluated positive and negative psychological factors in addition to SW. Based on correlation and multiple regression analysis, models were proposed for men and women, which were tested by path analysis. Results. Both models successfully fit the data and explained a high proportion of the SW variance. Spiritual strength was the best predictor, mainly for women, while the capacity for enjoyment was central to the models, mediating the effect of empathy and depression. Discussion and conclusion. SW is significantly predicted by the factors studied, especially spiritual strength and capacity for enjoyment, which seem to provide men and women with fortitude and meaning of life in adverse circumstances such as today’s.

Keywords: COVID-19, subjective well-being, spirituality, mental health.
INTRODUCTION

COVID-19 has forced millions of people worldwide into lockdown as a measure to prevent the transmission of the virus. Lockdown in Mexico began in March 2020, although it was not mandated as in other countries that imposed a curfew but voluntary, in keeping with the possibilities of the population. Even so, lockdown modified their routines and lifestyles.

Although this measure is effective in mitigating and controlling pandemics (Rodríguez-Morales et al., 2020; Vera-Villaroel, 2020), it entails psychosocial and economic costs that significantly impact the health and well-being of the population (Ferguson et al., 2020). During lockdown, emotional states drive people to engage in behaviors that jeopardize their health (Bults et al., 2011). Increases in depression, stress and anxiety have been documented in various countries, with differential effects between men and women (Mazza et al., 2020; Qiu et al., 2020; Sandin, Valiente, Garcia-Escalera, & Chorot, 2020; Wang et al., 2020). Ubillos Landa, González Castro, Puente Martínez, and Gracia Leiva (2020) note that during the first weeks of lockdown in Spain, women displayed more emotional symptoms (fear, anguish, pessimism, sadness, and hopelessness) than men. Conversely, in Mexico, men (university students) showed greater anxiety and stress (González-Jaimis, Téjeda-Alcántara, Espinosa-Méndez, & Ontiveros-Hernández, 2020).

Although the effect of lockdown on psychopathology has recently been studied, some studies focus on positive emotional states, resilient traits, and quality of life. In China, Liu et al. (2020) found a negative relationship between happiness and life satisfaction, and anxiety and depression during the pandemic. Similar results were obtained by San Martín Ahumada (2020) in the Chilean population. In the study by Del Mar Molero et al. (2020), positive effects were associated with greater subjective well-being (SW) in men and women during lockdown.

SW is defined as the way in which people evaluate their satisfaction with their lives and the pleasant emotions they experience (Cuadra & Florenzano, 2003), and is considered an indicator of mental health (Keyes, 2006). Its predictors in adverse contexts include health, money, and employment (Cajiao, Morales Arias, Garzón Romero, Benavides Basante, & Acevedo Rincón, 2013), certain individual traits such as self-efficacy, extraversion, low neuroticism (Garaigordobil, Aliri, & Fontaneda, 2009), a sense of humor, rejection and social distancing, and planning capacity (Ubillos Landa et al., 2020). González-Sanguino et al. (2020) observed that spirituality has been the main protective factor for mental health during the COVID-19 lockdown. Spiritual strength, understood as a feeling of harmony and peace, derived from a connection with something greater than oneself (Peterman, Fitchett, Brady, Hernandez, & Cella, 2002), has been shown to mitigate suffering and contribute to overcoming adversity and coping with chronic diseases, encouraging acceptance and growth (Salgado, 2014), especially in times of crisis (Fardin, 2020). Although the number of Mexicans professing a religion has declined in recent years, for 84.4% (Instituto Nacional de Estadística y Geografía [INEGI], 2020), religious life is still of great importance. The degree of spiritual conviction, together with social support, helps people cope with adverse situations (Rivera-Ledesma & Montero, 2005). During the pandemic, spirituality has been a source of comfort and strength for a large sector of the population (Gutiérrez Zúñiga & de la Torre, 2020). Other individual traits that have not been studied in relation to lockdown, which could be associated with SW, are empathy, adaptability, and risk-taking.

In Mexico, mental health initiatives during the pandemic have been oriented, on the one hand, to informing and psychologically supporting the population with psychological care and crisis intervention programs, in both public health centers and institutions, which can be consulted on the website created by the federal government (coronavirus.gob.mx), and private mental health care centers (Gutiérrez Mercado, 2020; Esquivias Zavala et al., 2020), and on the other, to researching the effects of the pandemic and lockdown. In this regard, an increase in anxiety and stress has been found (Navarro Madera & Becerra Castellón, 2020), together with domestic violence and fear of suffering from the disease (Morales Chainé et al., 2020). However, it is necessary to continue studying the emotional impact and intervening factors to ensure that the population maintains an optimal level of SW, which will enable it to cope with the current circumstances.

Accordingly, the purpose of this research was to produce and evaluate explanatory models of SW in men and women under lockdown during the COVID-19 pandemic. Possible predictors included positive psychological factors: spiritual strength, adaptability, empathy and the capacity for enjoyment, and negative factors: depressive symptoms, anxiety, stress, irritability, social rejection and risk taking, whose effect on SW has not been explored in lockdown situations. To obtain valid, reliable measurements of these variables, and as a complementary part of the proposed objective, the study aimed to obtain the psychometric indices of the instruments administered.

METHOD

Study design

This was a cross-sectional, quantitative, correlational study.

Participants

A sample of 4,771 subjects born and residing in Mexico. The majority were women (75.8%, n = 3,615), aged between 18
and 77, with a mean age of 38.94 years ($SD = 10.96$). Men, constituting 24.2% ($n = 1,156$) of the sample, had a mean age of 40.15 ($SD = 11.85$), and an age range from 18 to 75. The inclusion criteria were being of legal age, being engaged in paid employment and working from home, being under total or partial lockdown due to the COVID-19 epidemic, only leaving home for essential reasons and having an electronic device to answer the battery of instruments. Those who did not answer all the instruments were excluded from the study. Snowball sampling was used, with data being collected via the Internet from April 6 to 17, 2020.

**Measurements**

**Sociodemographic data questionnaire.** Information was collected on the region where the subjects lived, their nationality, age, sex, marital status, schooling, number of children, occupation, family support, and degree of lockdown.

**Depression, Anxiety and Stress Scale, DASS-21.** The short version adapted to Spanish by Román Mella, Vinet, and Alarcón Muñoz (2014) with three subscales with seven items each was administered. The authors reported acceptable fit indices in the confirmatory factor analysis (CFA) and $\alpha = .85$ (Depression), .72 (Anxiety), and .79 (Stress). Subjects were asked to answer based on their state of mind during lockdown using four response options ranging from *Never* to *Always*. Excellent fit indices were reported in its validation in the CFA and $\alpha = .968$. Examples of items include: “I have found it impossible to get excited about something” (Depression); “I have found it difficult to breathe” (Anxiety); “I have felt restless” (Stress).

**Subjective Well-being Scale, EBS-8 (Calleja & Mason, 2020).** This scale evaluates SW in terms of life satisfaction and positive affect. It is one-dimensional, with eight items and six response options, ranging from *Never* to *Always*. It has not happened to me 1. to It has happened to me a lot 4. Examples of items include: “I am a happy person” and “I am satisfied with my life.”

**Spiritual Strength Questionnaire.** Spiritual strength is defined as the connection with the transcendent dimension of life (Zinnbauer, Pargament, & Scott, 1999). Three questions were developed to evaluate it: “My spiritual beliefs give my life meaning,” “My spiritual beliefs give me peace,” and “Difficult times have strengthened my spiritual beliefs.” Likert-type response options were used, ranging from *Strongly disagree* 1. to *Strongly agree* 6. The internal consistency index was $\alpha = .950$.

**Psychological Functioning Scale (PFS).** Built for the study, based on the Ego Functions Assessment Scale (EFA), developed by Bellak and Goldsmith (1994), this scale assesses behavior through the mental examination of 12 functions, measured with open questions, within a clinical interview. The Mexican adaptation transformed it into a self-administered questionnaire, with Likert-type an-

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**Procedure**

The battery of instruments was prepared on the Google Forms platform, and a pilot study was undertaken. Twenty people who met the inclusion criteria for the sample were asked to fill in the form, and a telephone interview was conducted to ensure that the items had been understood and determine the ease of answering the questionnaire through electronic devices. The wording of certain items was adjusted and the number of items per screen in the form was modified so that they could be fully displayed on cell phones. The average time taken to answer the battery was 20 minutes. The instruments were disseminated via the Internet among people over 18 years old confined to their homes due to the pandemic. The context and objective of the study were explained at the outset and people were invited to answer the questionnaire after they had given their informed consent. Only those who met all the inclusion criteria were considered.

**Statistical analysis**

The Excel file provided by the Google Forms platform was transferred to an SPSS v. 22 file for data processing. For the PFS, an exploratory factor analysis (EFA) was conducted with the maximum likelihood method and Promax oblique rotation, using a random sample ($n = 500$) of the total number of subjects. The items associated with each factor with $\lambda > .50$ were determined. The factor structures of all the scales were confirmed with CFA with random samples ($n = 500$); Cronbach’s $\alpha$ internal consistency index was obtained for
Discrimination of each one. The scores of the subscales were calculated using the means of the items comprising them.

Descriptive analyses and comparisons by sex of the variables studied were carried out with the Student’s t test. Bivariate correlation and multiple linear regression analyses were made to identify the significant predictors of SW, which, in turn, were used to create the trail models to be tested to explain SW in men and women (Kline, 2015). Multivariate normality was verified through the Mardia coefficient; the estimation method was maximum likelihood.

The following indices were analyzed to determine the fit of the models (Hu & Bentler, 1999): the χ² goodness of fit test (p > .05 indicates an adequate fit), the χ²/gl ratio (< 3), the Comparative Fit Index, CFI (> .95), the Goodness of Fix Index, GFI (> .90), the Standardized Root Mean Square Residual, SRMR (< .05) and the Root Mean Square Error of Approximation RMSEA (< .05). The suggested changes in the modification indices were made to improve the fit. The AMOS v. 22 program was used.

Ethical considerations

This research was approved by the Research and Ethics Committees of the Instituto Nacional de Perinatología, with registration number 2020-1-33.

RESULTS

Psychometric analysis of scales

The three-factor structure of the DASS-21 was confirmed with CFA, with five items with factor loadings < .50 and residual covariances > 2 being eliminated. Satisfactory fit indices were obtained: χ²/(df) = 271.854; χ²/gl = 2.862; CFI = .974; NFI = .961; GFI = .953; SRMR = .033; RMSEA = .051, CI 90 [.044, .059]. The internal consistency index α was .942.

The CFA of the EBS-8 yielded satisfactory fit indices: χ²/(df) = 28.502; χ²/gl = 1.781; CFI = .997; NFI = .992; GFI = .993; SRMR = .012; RMSEA = .040, CI 90 [.013, .063]; and α = .956 was obtained.

In the EFA of the PFS, the KMO coefficient was .872 and the Bartlett sphericity test was significant p < .001. Six factors were obtained, with 22 items, which explained 65.46% of the total variance. These measure: irritability (manifestation of impulses and difficulty tolerating frustration, for example, “Do you have outbursts of anger you cannot control?”), social rejection (withdrawal or distancing from others, such as “Do you feel you have no friends?”), risk-taking (lack of anticipation of consequences or foreseeing dangers, for example: “Do you do dangerous things?”), adaptability (ability to integrate contradictory or discrepant attitudes, affections, values, and behaviors, such as “Do you adapt easily to changes in routine?”), empathy (ability to discern the affective states of others and ease of communication with others, such as “Do you get personal satisfaction by helping others?”) and capacity for enjoyment (ability to enjoy activities and personal interests and work routines, such as “Do you enjoy doing creative things?”). The factors were named differently from the original functions because the items were grouped differently in this adaptation of the instrument. The total internal consistency index was α = .821. The CFA showed adequate levels of fit: χ²/(df) = 499.602; χ²/gl = 2.589; CFI = .947; GFI = .937; SRMR = .063; RMSEA = .048, CI 90 [.043, .053], confirming the six-factor structure obtained in the EFA.

Demographic characteristics of subjects

Table 1 shows that the preponderant levels of educational achievement for men and women were undergraduate and graduate degrees. About half had a partner, and one in two had one or more children and lived mainly with their partner and offspring or with their parents and siblings. A higher percentage of men (22.6%, n = 261) than women (16.5%, n =

| Variable | Category | Women (N = 3615) | Men (N = 1156) |
|----------|----------|-----------------|-----------------|
| Academic level | Junior high school | .7 | 1.8 |
| | Senior high school | 4.9 | 6.9 |
| | Technical qualification | 4.7 | 4.1 |
| | Bachelor’s degree | 55.4 | 54.7 |
| | Master’s degree | 27.1 | 25.3 |
| | Doctorate | 7.2 | 7.4 |
| Partner | Yes | 48.9 | 46.6 |
| | No | 51.1 | 53.4 |
| Offspring | Yes | 52.6 | 50.2 |
| | No | 47.4 | 49.8 |
| Person they live with | Parents and siblings | 24.7 | 24.9 |
| | Partner and offspring | 42.8 | 35.3 |
| | Only with partner | 17.4 | 19.8 |
| | Relatives and friends | 5.6 | 6.4 |
| | Alone | 9.5 | 13.6 |
| Maintaining the family | Sole breadwinner | 16.5 | 26.2 |
| | Is one of those who contribute | 63.0 | 55.0 |
| | Does not support the family | 20.4 | 18.8 |
| Social security | Yes | 73.0 | 70.0 |
| | No | 27.0 | 30.0 |
| Part of the country they live in | North | 19.2 | 18.5 |
| | West | 13.1 | 12.6 |
| | Center | 60.4 | 59.1 |
| | South | 7.3 | 9.7 |
| Degree of lockdown during the pandemic | Partial (essential trips) | 80.1 | 84.8 |
| | Total (did not leave the house at all) | 19.9 | 15.2 |
were under partial lockdown, as they had to go out to make basic purchases or for medical consultations.

**Descriptive analysis and differences by sex**

**Positive psychological factors**

Table 2 shows the scores of SW, spiritual strength, adaptability, empathy, and capacity for enjoyment obtained by the subjects; the means of these variables were above the theoretical mean = 3.5, range: 1-6; for Anxiety, Depression and Stress: Theoretical mean = 2.5; range: 1-4.

**Negative**

| Variables       | Women (W)         | Men (M)          | Statistical test |
|-----------------|-------------------|------------------|------------------|
| Depression      | 1.63 ± .67        | 1.47 ± .60       | 6.993, p < .001  |
| Anxiety         | 1.57 ± .67        | 1.34 ± .54       | 10.442, p < .001 |
| Stress          | 2.02 ± .76        | 1.77 ± .71       | 9.823, p < .001  |
| Irritability    | 2.54 ± .99        | 2.34 ± .98       | 6.048, p < .001  |
| Social rejection| 1.87 ± .89        | 1.88 ± .94       | 0.113, p > .05   |
| Risk-taking     | 1.73 ± .88        | 2.03 ± 1.01      | 9.416, p < .001  |

Notes: * For SW, Spiritual Strength, Adaptation, Empathy and Capacity for Enjoyment: theoretical mean = 3.5, range: 1-6; for Anxiety, Depression and Stress: Theoretical mean = 2.5; range: 1-4.

Table 3

**Bivariate correlation indices between study variables (N_M = 3615; N_H = 1156)**

| Variables       | Sex 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------|-------|---|---|---|---|---|---|---|---|----|
| 1. Subjective well-being |       | - |   |   |   |   |   |   |   |    |
| 2. Spiritual strength | Women | .633* |   |   |   |   |   |   |   |    |
|                     | Men   | .577* |   |   |   |   |   |   |   |    |
| 3. Adaptation      | Women | .392* | .274* |   |   |   |   |   |   |    |
|                     | Men   | .289* | .236* |   |   |   |   |   |   |    |
| 4. Empathy         | Women | .314* | .194* | .389* |   |   |   |   |   |    |
|                     | Men   | .293* | .116 | .415* |   |   |   |   |   |    |
| 5. Capacity for enjoyment | Women | .446* | .246* | .598* | .468* |   |   |   |   |    |
|                     | Men   | .429* | .201* | .615* | .525* |   |   |   |   |    |
| 6. Depression      | Women | -.343* | -.222* | -.250* | -.043 | -.263* |   |   |   |    |
|                     | Men   | -.338* | -.257* | -.213* | -.033 | -.196* |   |   |   |    |
| 7. Anxiety         | Women | -.197* | -.084 | -.140* | .001 | -.202* | .713* |   |   |    |
|                     | Men   | -.157* | -.047 | -.082 | .010 | -.117* | .578* |   |   |    |
| 8. Stress          | Women | -.219* | -.156* | -.183* | .023 | -.212* | .732* | .714* |   |    |
|                     | Men   | -.199* | -.152* | -.161* | .051 | -.175* | .680* | .641* |   |    |
| 9. Irritability    | Women | -.203* | -.155* | -.157* | .029 | -.128* | .502* | .470* | .519* |   |
|                     | Men   | -.179* | -.174* | -.108 | .094 | -.085 | .449* | .524* | .524* |   |
| 10. Social rejection | Women | -.243* | -.174* | -.166* | -.065 | -.192* | .358* | .237* | .241* | .399* |
|                     | Men   | -.175* | -.205* | -.208* | -.064 | -.180* | .410* | .283* | .329* | .418* |
| 11. Risk taking    | Women | -.071 | -.075 | -.054 | .033 | -.054 | .180* | .173* | .183* | .278* | .249* |
|                     | Men   | -.094 | -.153* | -.061 | .119* | .022 | .215* | .159* | .224* | .304* | .227* |

* p < .001.
theoretical mean. Men and women did not differ as regards SW or the capacity for enjoyment, while women scored significantly higher than men in empathy, spiritual strength, and adaptability.

**Negative psychological factors**

The mean scores of women for depressive symptoms, anxiety, stress, and irritability were significantly higher than those of men, who scored higher in risk taking. No differences were found by sex in social rejection. In general, scores were below the theoretical mean.

**Correlation analysis and multiple regression**

Significant correlation indices were obtained for all the variables with SW, except for risk-taking, whose indices were close to zero, in both men and women. The highest positive correlations were observed with spiritual strength and the capacity for enjoyment, and the highest negative ones with depression symptoms and stress (Table 3). High correlations (> .70 in women and > .57 in men) were observed between depression symptoms, anxiety, and stress; and between the latter and irritability (> .40). Similar results were obtained with adaptability, empathy, and enjoyment capacity, which correlated moderately with each other, in men and women.

SW predictors were obtained through multiple regression analysis from the correlations. Risk-taking and anxiety were not significant and were excluded from the models. Stress, irritability and adaptability were also eliminated because they were multicollinear, which was quantified and tested with the indices obtained for tolerance (< 1) and variance inflation (VIF > 1). The final model for women explained 48.2% of the variance in SW, whereas for men it explained 41.8%, both of which were statistically significant, with F (5,3609) = 673.663, p < .001 and F (5,1150) = 166.612, p < .001, respectively. The predictors of the regression model for women were (Table 4) spiritual strength, depressive symptoms, capacity for enjoyment, stress, and social rejection, whereas for men, only the first four were significant.

**Pathway model**

Based on the regression analyses, explanatory pathway models of SW were proposed and tested, with the five predictors for women and four for men (without social rejection).

At the outset, multivariate normality was tested, with the Mardia coefficients obtained being 10.751 for women and 19.196 for men. The models are shown in Figure 1. All the regression weights were highly significant (p < .001), and the fit indices of both models exceeded the cut-off points proposed by Hu and Bentler (1999). In the case of women, the standardized regression weight of social rejection was extremely low (-.05), and its elimination did not affect the remaining indices. The explained variance of SW based on the factors included was higher (52.1%) in the women’s than the men’s model (42.3%) and, although spiritual strength was the main predictor of SW in both cases, the standardized regression weight was higher in women (.52) than in men (.39). The capacity for enjoyment occupied a central place in both models, since it mediated the effect of spiritual strength, empathy, and depressive symptoms regarding SW, and was positively associated with empathy (which was also related to spiritual strength, mainly in the women’s model) and negatively associated with depression symptoms. The latter were stronger predictors of SW in the case of men (-.26), than women (-.16), and more highly affected by spiritual strength (-.28) in men than women (-.22).

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**Table 4**

Subjective well-being predictors obtained in multiple regression analysis for men and women participating in the study

| Predictors               | Sex | Beta  | Standard lower limit | Standard upper limit | t   | p   |
|--------------------------|-----|-------|----------------------|----------------------|-----|-----|
| Constant                 | M   | 2.860 | 2.661                | 3.059                | 28.155 | < .001 |
| H                        | 3.103 | .308  | .290                | .326                | 33.417 | < .001 |
| Spiritual strength       | M   | .265  | .234                | .297                | 14.170 | < .001 |
| H                        | .290  | .390  | .275                | .412                | < .001 |
| Capacity for enjoyment   | M   | .242  | .209                | .275                | 14.412 | < .001 |
| H                        | .266  | .237  | .266                | .325                | 2.683  | < .001 |
| Empathy                  | M   | .111  | .083                | .139                | 7.765  | < .001 |
| H                        | .079  | .084  | .030                | .127                | 6.515  | < .001 |
| Depression               | M   | -.432 | -.480               | -.384               | 17.586 | < .001 |
| H                        | -.528 | -.263 | -.627               | -.428               | 5.042  | < .001 |
| Social Rejection         | M   | -.098 | -.133               | -.063               | 5.522  | < .001 |
| H                        | -.006 | .004  | .056                | .067                | 2.389  | > .05  |
DISCUSSION AND CONCLUSION

The main objective of this research was to generate and test explanatory models of SW in men and women during the COVID-19 lockdown. This was carried out to determine the positive and negative psychological factors that predict it for which separate models were created for each sex. First, it was found that the variables included explained a high percentage of the variance of SW in women (52%), as opposed to 42% in men, suggesting that there are other unmeasured variables that explain SW in them.

Given that lockdown highlights the fragility, limitation, and vulnerability of human beings (San Martín Ahumada, 2020), spiritual strength was strongly associated with SW in both models, perhaps because it contributes internal resources that provide strength, creativity, humanity, or meaning of life, which can be useful in adverse situations. Spirituality enhances the ability to cope with situations of illness, disability, and negative life events (Landa Blanco, Landa Blanco, & Cruz Murcia, 2018). However, it was observed that spiritual strength was more strongly associated with SW in women, which agrees with other studies showing that, when faced with critical events, women display more interpersonal strengths and spirituality, since they have a greater ability to connect with themselves, others, nature, God, or a higher reality, while men possess greater intellectual strength (Ovejero Bruna & Cardenal Hernández, 2015).

In keeping with the statement that joy is related to SW (Ryan & Deci, 2001), in both models, the capacity for enjoyment mediated the effect of spiritual strength, empathy, and depressive symptoms on SW, such that those who had higher scores in spiritual strength and empathy, as well as fewer depressive symptoms, reported a greater capacity for enjoyment and SW. Other studies have also shown that empathy contributes to greater self-esteem, associated with more spirituality and life satisfaction (Kelm, Womer, Walter, & Feudtner, 2014). It was observed that empathy is equally important for men and women as regards the capacity for enjoyment, even though various studies report that this trait is associated more with women (Guzmán Bohórquez, Duarte Ramos, & Giraldo Camacho, 2019; Retuerto Pastor, 2004). Apparently, understanding the other in an unprecedented world situation sets in motion adaptive resources for coping better with the crisis (Johnson, Saletti-Cuesta, & Tumas, 2020).

Regarding negative factors, depressive symptoms also contributed to explaining SW, although they were more strongly associated with SW in men. However, unlike what was reported by Nguyen et al. (2020), depression symptom scores were below the theoretical mean, possibly because during the data collection stage (at the beginning of phase 2), the number of COVID-19 patients and deaths was still low, meaning that people’s emotional state had hardly been affected. However, the negative relationship observed in the model between spiritual strength and depression symptoms in men and women agrees with the findings of Salgado (2014), which indicate that spiritual strength serves as a mechanism for finding meaning in adverse situations, based on a belief system that is useful for coping with depression and stress, which is a protective factor against the
psychological impact of this pandemic (González-Sanguino et al., 2020).

These results point to the need for a more in-depth study in future research of the role of these and other variables in the SW of men and women and of whether depression, anxiety, and stress are conditions caused or exacerbated by lockdown, since data were not collected on the subjects’ previous mental health status. It is also suggested that studies be conducted on all phases of the pandemic. One of the limitations of the study was that data were only collected at the beginning of the second phase, meaning that the results obtained could vary at other times. Another constraint on generalization is that, although this was a large sample, it comprised mainly women, which could be due to their greater willingness to participate in self-report studies. Moreover, since the data were collected by electronic means, the sample comprised people who had access to technology, high educational attainment, and a steady income. Given that 41.9% of the population in Mexico are lagging educationally and lack access to social security, education, food, and decent housing, the model will probably have to be modified to incorporate samples with these sociodemographic characteristics.

A further limitation was that although the lockdown period was explored, it is impossible to guarantee a lack of bias in the subjects’ answers.

Finally, this research made it possible to obtain the psychometric indices of the instruments administered to evaluate the factors considered in SW. Since they are reliable, valid instruments, they can be used in future research in which these psychological factors will have to be measured.

In conclusion, this study explains the variables that affect SW in men and women in the COVID-19 lockdown. Since SW is as an indicator of mental health, these results could contribute to the development of strategies that will reduce the impact of lockdowns and encourage the return to everyday life after the pandemic.

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Conflict of interest
The authors declare they have no conflicts of interest.

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