## Individual memories and coping with the COVID-19 lockdown: Family members' experiences

Shahin Salarvand<sup>a</sup>\*, Masoumeh-Sadat Mousavi<sup>b</sup>, Yadollah Pournia<sup>c</sup>

<sup>a</sup> Hepatitis Research Center, Faculty of Nursing and Midwifery, Lorestan University of Medical Sciences, Khorramabad, Iran

<sup>b</sup> Nursing and Midwifery Care Research Center, Isfahan University of Medical Sciences, Isfahan, Iran

<sup>c</sup> Hepatitis Research Center, School of Medicine, Lorestan University of Medical Sciences, Khorramabad, Iran

\* Corresponding author shsalarvand@lums.ac.ir

#### Citation

DOI

Salarvand S, Mousavi M-S, Pournia Y. Individual memories and coping with the COVID-19 lockdown: Family members' experiences. *Medwave* 2022;22(9):2591

> 10.5867/ medwave.2022.09.2591

> > Submission date Mar 30, 2022 Acceptance date Oct 6, 2022 Publication date Oct 27, 2022

#### Keywords

Family, Coronavirus disease (COVID-19), Lockdown, Pandemic

#### Postal address

Shast Metri Boulevard Khorramabad Iran

## Abstract

#### Introduction

Understanding the psychological and behavioral reactions to emerging infectious diseases is crucial in managing outbreaks. This study sought to explain family members' experiences of individual memories and coping with the COVID-19 lockdown.

#### Methods

An exploratory, descriptive and qualitative research was conducted by content analysis in Lorestan province, Iran. The purposive sampling was continued by achieving data saturation, reaching 29 samples. In-depth semi-structured interviews were conducted to family members who stayed at home during the COVID-19-induced lockdown. The data was collected from October 2020 to February 2021. Content analysis presented by Graneheim and Lundman was used to analyze the data.

#### Results

The findings of this study contained 100 codes and five categories with its respective subcategories. Categories included taking advantage of opportunities (increasing intimate communication in the family; compensation and progress), coping mechanisms (creating fun and creativity at home; trying to spend leisure time; sports, reading books, music; increasing patience and tolerance; and forced Internet communications), social aspects (positive and negative), outcomes (gratefulness, pleasure, and happiness; concerns; psychological aspects; and damage and challenge to the foundation of families), and economic aspects (cost savings; recession/job loss/financial downturn; and low-income families' unaffordability to prepare electronics for education).

#### Conclusion

The COVID-19 pandemic and its induced-lockdown have affected various aspects of family life and its pros and cons have been presented by the participants. Policymakers must design and implement programs in line with this change in the public's lifestyles so that families are not damaged.

#### MAIN MESSAGES

- During the COVID-19 lockdown, several changes have been experienced in family members' lives. As a double-edged sword phenomenon, these changes can have positive or negative effects and family members needed to cope with these changes.
- The findings of this study are summerized in five categories: "taking advantage of opportunities," "coping mechanisms," "social aspects," "outcomes," and "economic aspects."
- This study strives to explain family members' experiences of individual memories and coping with the COVID-19 lockdown.
- The limitation of this study is that it has been done in a local area.

## INTRODUCTION

A family is the most potent context to promote, develop, or disrupt individuals' health over a life span [1]. Family members support each other socially, emotionally, and economically to varying degrees [2]. Familial patterns and interactions are dynamic and formed by socio-cultural, economic, and political conditions [3]. As a stressor originating from outside the family system, the COVID-19 pandemic has led to high rates of illness and death and numerous changes and side effects in daily life [4,5]. Even the families not directly exposed to the virus are likely to experience the indirect effects COVID-19 [6]. As COVID-19 continued to spread, the virus and its related problems appeared to be more than biomedical concerns [3]. To reduce COVID-19 prevalence, governments have advised the entire human population to "stay at home." [7].

The COVID-19-induced lockdown is a public health measure to minimize virus transmission [8]. Worldwide, over 100 countries had a complete or partial lockdowns[9]. The COVID-19induced lockdown has considerably changed millions of people's daily lives and routines all over the world [10]. Although the lockdown minimize physical harm, it may substantial harm people's well-being [11]. For instance, problems between spouses or other family members, familial caregivers, and primary health providers of the community can be problematic [3]. A survey study by Biroli reported a high percentage of disruption during the COVID-19-induced lockdown in family patterns life, displayed by new work patterns, allocations of chores, and household tensions [10]. Lebow's study reported relational improvement and deterioration during the lockdown [12]. Other studies reported increased domestic violence [13-17] and psychological impacts on the public [17-19] during natural disasters and the COVID-19 pandemic. However, a comprehensive understanding of the family experience of being locked up and staying at home was latent.

One application of qualitative research is the description of the unknowns. On the other hand, available quantitative methods do not provide sufficient insight into intimate relationship experiences, but a qualitative descriptive scheme permits understanding their experience [20]. Previous studies have indicated that understanding the psychological and behavioral reactions to emerging infectious diseases plays a crucial role in managingoutbreaks [21,22]. Understanding how COVID-19 disease affects family life is important [23]. Therefore, this study sought to explain family members' experiences of individual memories and coping with the COVID-19-induced lockdown.

## **METHODS**

This exploratory descriptive qualitative research was conducted by conventional content analysis. A purposive sampling was continued by achieving data saturation, reaching 29 samples.

In-depth semi-structured interviews were conducted with the family members who had the experiences of staying at home during the COVID-19-induced lockdown. Several open-ended questions guided the researcher in gathering the information. The following questions were asked to achieve more in-depth information (Box 1).

This study included amily stayed at home during the COVID-19-induced lockdown, but without any COVID-19 infected members in their families. We intended to investigate the healthy family members' experiences of forced lockdown without the tension of COVID-19 infection. We researched the whole atmosphere of family without considering a specific age.

#### **DATA COLLECTION**

Prior to the interviews, we sent the informed consent form electronically to the participants. We interviewed them after they agreed. The interviews were conducted via WhatsApp video chats and lasted about 20 to 60 minutes. The interview environment was calm and devoid of disruptive factors. The first author (SS, Ph.D.) interviewed with the permission of the participants, and a voice recorder documented all the interviews. Then, the first author gave the coded audio file of the interviews to the second author without mentioning the participant's characteristics. The second author (MM, MSc.) transcribed the recorded interviews. The interviews were analyzed by the first author, and the coding and the coding process was reviewed and revised by the third author (YP, MA.) and the second author (MM). All the authors are experienced Box 1: The topic guide of the study/the questions asked in the interviews.

#### Questions

What are your living experiences/memories of staying home during the COVID-19 lockdown?

What is your opinion about the impacts of the COVID-19-induced lockdown on family tasks?

What is your opinion about the psychological effects of the COVID-19-induced lockdown?

Would you please explain one of your memories of daily living during COVID-19 lockdown?

How has the COVID-19-induced lockdown affected you?

Can you explain more?

Source: Prepared by the authors of this study.

researchers in qualitative research and are academic faculty members. This is particularly true for the first and second authors, who have conducted several qualitative content analysis studies and are experts in community health nursing and adult health nursing respectively. During the interviews, the analysis of the interviews was also performed. The sampling continued to achieve data saturation. The data saturation was achieved by 29 samples. The data collection was conducted from October 2020 to February 2021 through in-depth and semi-structured interviews in a secluded and quiet environment according to the convenience of the participants. The first author requested the participants to determine the interview time so that they would be convenient with the time and place. Also, she interviewed in a calm environment via WhatsApp video chat. Content analysis presented by Graneheim and Lundman was used to analyze the data [24]. MAXQDA software was applied.

At the end of each interview, the recorded statements of the participants were repeatedly listened, and their statements were verbatim transcribed. Each written interview was read several times to understand the participants' experiences and perceptions. Later, the meaningful information and related statements were underlined, whereby meaningful units/important statements were identified. Then each meaningful unit was reduced to a condensed meaningful unit and the initial codes appeared. The first author (SS) carefully studied the initials codes and categorized them into subcategories based on the similarity of the concept. During this inductive process, similar subcategories were classified into main categories. SS reviewed and discussed this coding process and the emergence of the main categories by the third researcher. Finally, the main categories were defined as expressing the hidden content of the text. We also asked an expert in qualitative research (NB) to review the coding process. This study applied four rigor criteria including credibility, confirmability, transferability, and dependability as recommended by Lincoln and Guba [25].

For credibility, the extracted codes were referred to the participants and with their confirmation, the findings were validated (member check). The researchers also referred the extracted codes to an expert in qualitative research (NB) and the credibility of the research findings was confirmed by her (peer check). She has a Ph.D. in Reproductive Health and is an experienced researcher in the qualitative research and community-based services.

Confirmability was achieved by bracketing (excluding preconceptions) and reporting and recording the research steps and decisions made during it, so that other researchers can follow it and the research can be an audit trail. For the dependability of the findings, the data analysis process was performed by more than one researcher. Transferability was provided by a variety of samples with different demographic characteristics.

This study was approved by the Ethics Committee of Lorestan University of Medical Sciences with the ethics code LUMS. REC.1399.204. Therefore, we confirm that all the study processes were performed following relevant ethical guidelines and regulations as follows: Obtaining the electronic written informed consent due to the lockdown, keeping anonymity and confidentiality in the interview process and data analysis, coordinating with and satisfying the participants in choosing the time and place of the interview, getting permission from the participants to record their voices, assuring the participants that they would be free to participate in the research, and providing the participants with the research results.

### RESULTS

The participants of this study were family members with varying family roles and educational levels. They were 29 persons with a mean age of 37.5 years old (Table 1).

	Table 1	The	participants'	characteristics.
--	---------	-----	---------------	------------------

No.	Family role	Gender	Age	Education	Job
1	Mother	F	28	Illiterate	Housewife
2	Mother	F	31	M.Sc.	University lecturer
3	Father	Μ	34	Bachelor	Military
4	Mother	F	40	M.A.	Employee
5	Mother	F	39	Ph.D.	Employee
6	Mother	F	34	M.A.	Employee
7	Child	F	35	M.Sc.	Architect
8	Wife	F	24	M.A.	Chess teacher
9	Child	М	23	Student	University student
10	Mother	F	45	Bachelor	High school teacher
11	Mother	F	40	Bachelor	Employee
12	Mother	F	51	Ph.D.	Employee
13	Mother	F	50	Bachelor	Housewife
14	Father	Μ	36	Bachelor	Employee
15	Child	М	27	Bachelor	Self-employment
16	Father	М	52	Bachelor	Farmer
17	Mother	F	28	Postgraduate student	Nurse
18	Child	F	31	M.A.	Teacher
19	Father	М	37	Postgraduate student	Clergyman
20	Mother	F	32	M.A.	Employee
21	Mother	F	50	High school diploma	Tailor
22	Pregnant wife	F	29	Bachelor	Saleswoman
23	Father	Μ	30	High school diploma	Taxi driver
24	Mother	F	50	Illiterate	Housewife
25	Father	М	65	Bachelor	Retired
26	Mother	F	45	Intermediate education	Housewife
27	Child	F	19	Student	Unemployed
28	Single and lonely	F	49	Ph.D.	University professor
29	Father	М	45	High school diploma	Employee

F: female. M: male. M.A.: Master in Arts. M.Sc.: Master in Science. Ph.D.: Professional Doctorate.

Source: Prepared by the authors from the study data.

The findings of this study included 100 codes and five themes: Taking advantage of opportunities, coping mechanisms, social aspects, outcomes, and economic aspects. Each of them had subcategories (Table 2).

#### **TAKING ADVANTAGE OF OPPORTUNITIES**

The theme of taking advantage of opportunities had two subcategories: Increasing intimate communication in the family and compensation and progress. Each of them had subcategories. Some of the participants experienced an increase in intimate communication in the family. The participants stated that lockdown and staying at home caused them to help their spouse with household chores, created a greater sense of cohesion and intimacy between family members through increased time for children and spouse, and increased emotional intimacy with the spouse.

The participants shared their experience of compensation and progress during the lockdown. They experienced more opportunities to achieve interests, to increase children's computer knowledge and skills, and to deal with backlogs, and they also found opportunities and conditions to adapt to personal crises such as divorce. One participant talked about the usefulness of the lockdown in being less accountable to people about personal crises such as a family divorce.

#### **COPING MECHANISMS**

The participants tried to adjust to the lockdown conditions. These included creating fun and creativity at home, trying to spend leisure time, sports, reading books, music, increasing patience and tolerance, and forced Internet communications.

#### SOCIAL ASPECTS

The participants reported positive and negative social aspects. Positive social impacts included reducing people's curiosity about others' private lives due to COVID-19 mental preoccupation, changing people's lifestyles toward keeping health

The samples of the participants' puotes	Subcategory 1	Subcategory 2	Subcategory 3	Themes
The advantage was that I was more	Helping the spouse with household chores	Increasing intimate communication in the family	Taking advantage of opportunities	
We may not have had the time for children to have mental games, lively games with them at home before, but now hese conditions have caused us to eat and reduce our age and play games with them, we were very close, it was good together, we have fun" P4	Consuming more time for children and spouse			
About the relationship between husband and wife, I think it was a good experience. So, we became more ntimate" P4	Increasing emotional intimacy with the spouse			
	More opportunities to achieve interests	Compensation and progress		
"During this period, children became nore computer literate and learned a ot about using computers or teaching ids" P.4	Increasing children's computer knowledge and skills			
I was able to do the backlog" P:14	Dealing with backlogs			
When the divorce happened in my life, one of my major concerns was: What will happen to me now? What will relatives hink about me? In the lockdown I found myself in a situation where few others asked me: "What happened in rour life? Why did you get divorced and his happened to you?". The COVID-19 ockdown was a useful thing for me. I'm happy that someone has no relationship with me. I can say that I took advantage of this opportunity." P.5	Finding opportunities and conditions to adapt to personal crises such as divorce			
These days of lockdown have caused	Creating fun and creativity at home	Coping mechanisms		
creativity, special creations that parents can help their children flourish For nany, it was a good start. Also, more reading for children, special training that hey can have in the music, handcrafts, painting, reading" P.11	Trying to spend leisure time Sports, reading books, music			
"By increasing patience and endurance, we adapt to the conditions of the ockdown in other words, the lockdown conditions made us more patient" P. 10	Increasing patience and tolerance			
'In the lockdown era, we had to connect with friends and relatives on the internet". ? 9	Forced Internet communications			
"Corona opportunity to adapt to divorce crisis without the curiosity of others due o people's mental preoccupation with Corona and limited relationships". P.5 "Social distance has increased, and this has led to fewer people interfering in each other's work, wich, in my opinion, has been a positive thing". P.17	Reducing people's curiosity about others' private lives due to COVID-19 mental preoccupation	Positive social aspects	Social aspects	

Table 2. The participants' quotes, categories, and subcategories of data analysis.

#### Table 2. Cont.

The samples of the participants'	Subcategory 1	Subcategory 2	Subcategory 3	Themes
<b>quotes</b> "Corona really changed our living conditions It made lasting changes in people's lifestyles and health. So, we keep health protocols" P.16 "We use the elevator on the 4th floor. If the occupants are inside the elevator, we allow them to get off first, then ventilate for a few seconds, and then we get on" P.1	Changing people's lifestyles toward keeping health protocols	Subcategory 2	Juncalegory J	1 nemes
"Everyone could quit some bad habits in this situation. For example, I saw people who quit smoking because they are more in the family environment. Getting rid of bad habits" P.5	Quitting bad and harmful habits			
"In my opinion, the best achievement of COVID-19 during the lockdown for all families, for all human beings, first and foremost, was that we learned how to take care of personal and public health, that is, so far, no matter how clean we were, we took care of everything. Until now, we did not know the correct way to observe hygiene, as we have learned now". P.21	Toward healthy behaviors			
"Social relations have wanedwe have immersed in isolation". P.8	Severing social ties	Negative social aspects		
"At first, I wanted to go and see my friends, but now I prefer to stay home as if I got used to living at home" P.28	Diminishing meetings			
"We did not have any relationships with friends. My friend's father died, and I really should have accompanied him. We are in a situation where we cannot be together anymore, and it is annoying" P.5 "Families have been affected socio- culturally, no one complains about not going to other people's joys and sorrows, friendships have decreased, social distance has increased"P.17	Not being able to share the joys and sorrows with friends in person			
"We had to contact others exclusively virtually" P.12	Exclusively virtual contact with relatives and friends			
5	Trying to enjoy life	Gratefulness, pleasure, and happiness	Outcomes	
"One of the benefits I can tell you is that intimacy in the family has increased. We all care more about each other's health "P.5	Developing a sense of help and cooperation			
"Also, this lockdown has made people appreciate each other more, they may not be physically present together, but the same nostalgia that exists has made people enjoy each other more after the COVID-19 pandemic and appreciate each other more and realize that they easily ignored their lovers"P.11	Appreciating each other's existence			

#### Table 2. Cont.

Table 2. Cont.				
The samples of the participants'	Subcategory 1	Subcategory 2	Subcategory 3	Themes
quotes "One of the positive effects was that we did not appreciate health, we did not know how good it is when we are healthy, we did not appreciate it, we should be grateful for our health, but unfortunately we were not" P. 12	Subcategory 1 Being grateful for health	Subcategory 2	Subcategory 3	Themes
"My family and I are satisfied with the lockdownit is a time for rest," P.25	Being satisfied with the lockdown			
"The situation of some businesses has deteriorated during the lockdown and they are living in an economic situation" P. 12	Unhappiness with the state of society due to the weakening of social relations and economic problems	Concerns		
"I'm worried how long will this situation last?"P.16	Worries about the stability of this situation			
"Due to the increasing use of the Internet during the lockdown the need to manage the use of cyberspace in families is felt" P. 28	The need to manage cyberspace			
"Due to the uncertainty in the diagnosis and treatment of COVID-19 disease, we are constantly seeking new information from various sources". P.3	Trying to seek information on COVID-19 disease			
"But there is a problem that we became overweight during this period due to this inactivity, and our desire to exercise disappeared because the previous activity in the community and at school has finally been eliminated, we also got used to laziness" P.4	Closure of gyms and low suitable mobility and physical activity			
"For various reasons, including unemployment of some jobs due to closure theft rate and have increased" P.28	Increased poverty and crime/ social harm			
"When I got pregnant, two months later we found out that the COVID-19 was prevalent. I was very scared. It was my first child and I was scared. I did not go out much, just for the ultrasound scan. I was afraid of catching the COVID-19 disease." P2 "During the lockdown, even though we were inside the house, I always disinfected the whole house regularly, and I had a feeling of stress and anxiety. I used to disinfect the clothes. If we went out, we would hang our clothes outside the house." P1	Anxiety	Psychological aspects		
"This lockdown has exacerbated loneliness in the elderly." P28 "My children say we wish to see someone other than ourselves." P10	Isolation and intensification of loneliness			

(Cont.)

#### Table 2. Cont.

The samples of the participants' quotes	Subcategory 1	Subcategory 2	Subcategory 3	Themes
The second secon	Subcategory 1 Mood and energy changes	Subcategory 2	Subcategory 3	Themes
particularly high work efficiency and work hard to be idle, and this causes them to be moody and have a lot of time on their hands without anything to do. This causes boredom and moodiness." P18				
'During the lockdown, my sleep-wake pattern has become disrupted." P28	Sleep-wake patterns disruption			
"It is hard for me not to have any contact with society. Life has become soulless and un-motivating for me. Sometimes, I get so tired of the lockdown that I go to visit my friends without a mask." P28	Feelings of helplessness			
Those who came to social networks were lrawn in a lot more and became more mmersed in the virtual world. There are number of things that result from the ockdown." P5	An increase in the risk of problematic Internet use			
"Marital relations have changed, many inspoken words are being said now. Of course, sometimes it is positive, but ometimes in most cases, it has had an infavorable effect, unfortunately, it has aused to weaken the marital relations" P.17	A time for unspoken words	Damage and challenge to the foundation of the family		
This boredom and moodiness caused by the closure affects all members of he family, which somehow reduces the varmth of the relationships in families." 218	Increased conflicts in family relationships More referring to family counselors Increased divorce			
"I have seen that in some acquaintances amilies where abuse has increased" P.28	Family members abuse to women, children, and the elderly			
'The cost of travel and children's clothing has decreased. It is affordable" ?.6	A reduction in transport expenses A decrease in the cost of education and schooling for children	Cost savings	Economic aspects	
"According to the Nowruz ritual in Iran, due to the lockdown this year we did not visit and no expenses were spent for the parties". P.12	A reduction in holiday expenses and family visits			

(Cont.)

Table 2. Cont.

The samples of the participants'				
quotes	Subcategory 1	Subcategory 2	Subcategory 3	Themes
"the issue that I see is that some jobs do not have any activities/ incomes due to the forced lockdown, and this has caused financial downturn". P.13	Recession/job loss/finat	ncial downturn		
"With the sudden introduction of exclusively virtual teaching, poor families can't afford buying tablets, smartphones and related electronic devices, and this causes disruption in the educational process of these people". P.29	Low-income families' un electronics for education	, , , ,		

Source: Prepared by the authors of this study data.

protocols, quitting bad and harmful habits, and moving toward healthy behaviors.

On the other hand, negative social impacts included severing social ties, diminishing meetings, not being able to share their joys and sorrows with friends in person, and exclusively virtual contact with relatives and friends. The participants avoided close interaction with people.

#### **O**UTCOMES

In this theme, the participants experienced gratefulness, pleasure, happiness, concerns, psychological aspects, and damage and challenge to the family's foundation.

In the subcategory of gratefulness, pleasure, and happiness, the participants stated learning to enjoy life, developing help and cooperation sense, appreciating each other's existence, being grateful for health, and being satisfied with the lockdown.

The participants stated concerns such as unhappiness with society due to the weakening of social relations and economic problems, worries about the stability of this situation, the need to manage cyberspace, trying to seek information on COVID-19 disease, closure of gyms and low suitable mobility and physical activity, and increased poverty and crime/social harm.

The participants also experienced anxiety, intensification of loneliness and isolation, changes in mood and energy, sleepwake patterns disruption, helplessness feelings, and an increase in the risk of problematic Internet use.

From the participants' point of view, one of the outcomes of the COVID-19 lockdown, was damage to the foundation of the family. This subcategory includes a time for unspoken words, increased conflicts in family relationships and referring to family counselors, increased divorce, and family members' abuse to women, children, and the elderly.

#### **ECONOMIC ASPECTS**

The participants cited cost-savings, recession/job loss/financial downturn, and low-income families' unaffordability to prepare electronics for education. The cost-saving category includes a reduction in transport expenses, a decrease in the cost of education and schooling for children, and a reduction in holiday expenses, and family visits.

## DISCUSSION

This study provides an insight into families expiriences' during a pandemic-related lockdown. The COVID-19 pandemic and its related lockdown have affected various aspects of family life. The findings of the present study contain five categories.

#### TAKING ADVANTAGE OF OPPORTUNITIES

In this study, some participants noted the impact of the lockdown and staying at home on increasing communication and intimacy in the family. Other studies confirm that many families have reported their family priorities to be an increase in cohesion and a deeper understanding of their values [26].

The participants stated the subcategory of compensation and progress during the lockdown. They experienced more opportunities to achieve interests, increase children's computer knowledge and skills, deal with backlogs, and found opportunities and conditions to adapt to personal crises such as divorce, and to increase creativity. Other studies confirm that many people point out that the experience has permitted them to return to their past hobbies or find a new interesting hobby. They have spent more time with their families, which has been very positive [26].

The participants noted an increase in children/students' computer knowledge and skills during the holidays. Tejedor et al. study showed that empowering and supporting students is necessary for suitable digital literacy. In the global condition of the lockdown, students have the opportunity to pursue individualized learning pathways [27]. Additionally, they experienced reduced social interactions and, as a result, reduced curiosity in private life and questioning the cause of divorce, which led to their success in coping with this crisis. One of the participants mentioned that she felt a reduction in cultural pressure on divorce due to COVID-19 mental preoccupation, which she described as a favorite condition for better adjustment to the divorce case. We did not find any related studies in this regard. Although the present study implicitly mentioned stress and the need for help and counseling, privacy and calm environment/ atmosphere during the lockdown was more important.

Lebow's study reported that divorce faces challenges during the lockdown, and there is a need for compromise and help in adjusting for divorced parents [28]. This discrepancy can be due to the differences among societies, where divorce is relatively stigmatized in Lorestan province in Iran. When facing challenges, people primarily rely on the family. In this regard, the lockdown, the lack of social interactions, and school and workplace closure has helped to adapt to this challenge away from the curiosity of others.

#### **COPING MECHANISMS**

The participants referred to coping mechanisms to adjust to the lockdown conditions, including fun and creativity activities at home, trying to spend leisure time, exercise, book study, music, increasing patience and tolerance, and increasing Internet communications and online social networking. Other studies also suggested that people cope with the lockdown stress by engaging in specific activities during the lockdown period, including music, meditation, sport, exercise, cooking, and reading books [29].

The participants cited increased patience and tolerance as mechanisms for adapting to the lockdown and staying at home. We did not find any related studies in this area. The participants were communicating with their friends and relatives who lived in other places through Internet communications or social networks such as WhatsApp, and they tried to maintain a network of friends and neighbors. Watson et al. study reported an increase in digital communication technologies in people's homes during the shutdown. Video calling software is of particular importance for many people, allowing them to get closer and more connected with their friends and family when performing daily programs and special events [30]. Cauberghe's study reported social media as a major source during a lockdown for many people to cope with a lack of social communication [31].

#### SOCIAL ASPECTS

The participants reported the experienced social aspects of the lockdown. The participants stated a decrease in people's curiosity about private life due to COVID-19 mental preoccupation, a change in people's lifestyles toward health, and the abandonment of harmful habits, including smoking, as positive social impacts. These findings align with Galli's study, reporting that the COVID-19 lockdown has resulted in changes in lifestyles [32].

The participants experienced negative social impacts including severing social ties, diminishing meetings, not being able to share joys and sorrows with friends in person, and contacting relatives and friends virtually. We did not find any related studies in this area. In our opinion, virtually communicating with relatives and friends is similar to a double-edged sword, which helps to adapt to the lockdown. Moreover, since it does not replace real and face-to-face communication, it can be harmful culturally.

The participants experienced anxiety, loneliness, isolation and intensification, changes in mood and energy, sleep-wake patterns disruption, helplessness feelings, frequent disputes and arguments in the family, and an increase in the risk of problematic Internet use. Anxiety - as a key theme and one of the negative psychological aspects, includes fear of sickness, stress of leaving home, washing obsession, and cleanliness stress.

Other studies have confirmed that COVID-19 has resulted in increased uncertainty and concerns, partly caused by disappointing news from all over the world [3,12]. In addition to threatening the physical health of people, COVID-19 causes numerous worries and affects the mental health [33], which is complicated by isolation induced by the lockdown [34]. Concerning the experience of high-stress levels during pregnancy in our study, the findings of Zhang's study have similarly reported the experience of moderate to severe anxiety in pregnant women during the early stages of the pandemic [35]. All the participants experienced various degrees of anxiety which could be a trigger for the emergence of other conditions.

Some of the family members reported feeling of loneliness and isolation, which were dependent upon the degrees of social interactions before the lockdown or their personality traits since some did not experience such feelings. Other studies have reported the isolation induced by the lockdown as an unpleasant experience, which can lead to sadness and even impose substantial mental illness on those suffering from the isolation [17]. This social isolation will result in chronic loneliness and boredom, which can devastate physical and mental health if prolonged enough [34].

The participants reported impatience and boredom during the lockdown. Generally, a lockdown is an unpleasant experience since it comes with consequences such as separation from loved people, insecurity financial problems, and impatience [17,36].

The participants in our study reported loneliness exacerbation among older people, and this has been confirmed by other studies. The reverse quarantine, in which older adults were separated from the other family members to prevent infection, was the major reason for loneliness [37].

Some of the participants experienced anger and depression. This finding is in line with a review study by Torales indicating that the lockdown increased depression, anxiety, post-traumatic stress disorder, and insomnia in the general population [38].

The present study indicated that excessive social network use, cyberspace abuse, and increased risk of the problematic use of the Internet and digital devices including tablets, phones, and personal computers in children are some of the consequences of the lockdown and staying at home. Dong's study evidenced Internet overuse in Chinese children and adolescents during the pandemic. The COVID-19 pandemic has mainly affected Internet use in various ways, including recreational Internet use frequency and duration and stay-up use rate [39]. Cauberghe's study has indicated that, teenagers during the lockdown use social media to respond and adapt to feeling of loneliness and anxiety. Social media are a major source to adapt to a lack of social communication during the lockdown [31].

The participants in our study reported disturbances in sleep and biological rhythm. Other studies have suggested that people may have trouble sleeping and focusing on their household chores during the lockdown [40]. Ara's study confirmed that family members had sleep disorders during the lockdown, possible due to job loss, online classes, fear of being infected with the virus, and depression, among others[41]. Other studies have indicated that people experience sleep disorders during the pandemic [42,43].

#### **O**UTCOMES

The participants stated the positive impacts of the lockdown such as movement toward expanding the worldview and a sense of pleasure and happiness.

The expansion of the worldview subcategory describes understanding death reality, taking advantage of the short opportunity of living, a sense of help and cooperation development, and understanding life and world beauties, which we callnurturing awareness toward encircling the environment and others. No relevant studies were found in this area.

The participants stated a sense of contentment and happiness including satisfaction, intimacy, and gratefulness for being healthy. In our study, the people who were not being financially anxious enjoyed the lockdown and being together. Spending more time with spouses during the lockdown increased marital satisfaction [44]. In contrast, the lockdownharmed happiness in Greyling's study [11]. Happier people are more likely to comply with the lockdown and staying at home. The findings of the study confirm that previous and current happiness predicts compliance with the lockdown, and a higher level of happiness strengthens this relationship [45].

The participants experienced unhappiness with the state of society due to the weakening of social relations and economic problems, worries about the stability of this situation, the need to manage cyberspace, reduced intimacy, trying to obtain information about COVID-19 disease, delays in medical follow-up, closure of gyms and low suitable mobility and physical activity, eye injuries from working with electronic devices, and increased poverty and crime/social harm.

Physical inactivity, sedentary lifestyle, loneliness, and social isolation in which public interactions become limited can all affect a person's general health [46]. The literature shows that people may experience unpleasant psychological consequences including anger, post-traumatic stress disorder, and depression in such situations. Length of stay at home, fear of infection, worries about life necessities, concerns about receiving on-time information, money loss, and the stigma associated with the epidemic can cause mental disorders [47].

The participants expressed concern about the closure of gyms and art classes, which caused reduced mobility and entertainment. Huber's study showed that many opportunities, such as athletic programs, fitness centers, and sports clubs, have been suspended [48], which can cause psychological and physical consequences for family members, especially children [46].

The participants referred to the damage and challenges of strengthening the family foundation during the COVID-19 lockdown, including having time for unspoken words, increasing differences in family relationships, more visits to family counselors, increasing divorce, called the "Covidivorces", and mistreatment of women, children, and the elderly. Other studies have reported increased domestic violence during the COVID-19 lockdown. Zhang's study has primarily attributed this increased domestic violence to the widespread lockdown, which exacerbates conflicts, economic distress, and pandemic tensions in families, and also to the insufficient support for domestic violence victims during the COVID-19 pandemic [49]. Given the current health consequences of the COVID-19 crisis, children in high-risk families may be more likely to be abused [50].

#### ECONOMIC ASPECTS

The participants referred to the economic aspects of the lockdown including cost savings, job loss, financial decline, and inability to prepare tablets and computers for virtual education in the poor. Numerous studies have reported economic challenges in different countries during the pandemic-related lockdown period [17]. Although it has limited the COVID-19 spread, the shutdown has resulted in an economic crisis, especially the unspoken misery it has created among the workers' class [37].

Given that the researchers in the present study are community health and adult health nurses, these findings can help them to acquire new insight into families' conditions in forced lockdown induced by pandemics.

#### **LIMITATIONS**

This study's interviews were conducted via WhatsApp video chat due to the lockdown regulations. Therefore, we could not have the benefits of face-to-face interviews, including recording field notes and considering non-verbal communication such as body language that could be more trustworthy. Since this study has been done in a local area, the generalizability of these findings may be limited.

## **CONCLUDING REMARKS**

The participants in this study noted the pros and cons of the lockdown and tolerated some changes to cope with the COVID-19 pandemic-induced lockdown. As a double-edged sword phenomenon, these changes in different dimensions of family members' lives, can have positive or negative effects and, over a long period of time, my become internalized in people's lives and culture. Will the COVID-19 pandemic change the course of human life altogether? Policymakers must design and implement programs in line with this change in the public's life-styles so that families are not damaged.

## Notes

#### Contributor roles

SS led the research from designing the study to writing the final manuscript. She was the main researcher, interviewer, and data analyst. MSM participated in designing the study and transcribing the interviews verbatim. YP participated in designing the study. All the authors revised the coding process and the final manuscript.

#### Acknowledgments

This article has been extracted from the results of a research project approved by the Vice Chancellorship for Research of Lorestan University of Medical Sciences (research code: 1434). We would hereby like to thank all the study participants, the Vice Chancellorship for Research of the university for the financial support of the project, and Dr. Narjes Bahri for reviewing the coding and analysis process.

#### **Competing interests**

The authors state they have no competing interests to declare regarding this article.

#### Funding

We are grateful to the Vice Chancellorship for Research of Lorestan University of Medical Sciences for the financial support of this research (Funding ID: 1434).

#### Ethics

The Ethics Committee of Lorestan University of Medical Sciences approved this study with the ethics code number of LUMS.REC.1399.204. We hereby confirm that all the procedures of the study were in accordance with relevant guidelines and regulations.

#### Provenance and peer review

Not commissioned. Externally peer-reviewed by two reviewers, double-blind.

#### Language of submission

English.

## References

- Weiss-Laxer NS, Crandall A, Okano L, Riley AW. Building A Foundation for Family Health Measurement in National Surveys: A Modified Delphi Expert Process. Matern Child Health J. 2020;24: 259–266. https://doi.org/10.1007/s10995-019-02870-w
- Weiss-Laxer NS, Crandall A, Hughes ME, Riley AW. Families as a Cornerstone in 21st Century Public Health: Recommendations for Research, Education, Policy, and Practice. Front Public Health. 2020;8: 503. https://doi.org/10.3389/fpubh.2020. 00503
- Tom T, Chipenda C. COVID-19, Lockdown and the Family in Zimbabwe. Journal of Comparative Family Studies. 2020;51: 288–300. https://doi.org/10.3138/jcfs.51.3-4.005
- Chung G, Lanier P, Wong PYJ. Mediating Effects of Parental Stress on Harsh Parenting and Parent-Child Relationship during Coronavirus (COVID-19) Pandemic in Singapore. J Fam Violence. 2022;37: 801–812. https://doi.org/10.1007/s10896-020-00200-1
- Xiang Y-T, Yang Y, Li W, Zhang L, Zhang Q, Cheung T, et al. Timely mental health care for the 2019 novel coronavirus outbreak is urgently needed. Lancet Psychiatry. 2020;7: 228–229. https://doi.org/10.1016/S2215-0366(20)30046-8
- Bavel JJV, Baicker K, Boggio PS, Capraro V, Cichocka A, Cikara M, et al. Using social and behavioural science to support COVID-19 pandemic response. Nat Hum Behav. 2020;4: 460–471. https:// doi.org/10.1038/s41562-020-0884-z
- Matias T, Dominski FH, Marks DF. Human needs in COVID-19 isolation. J Health Psychol. 2020;25: 871–882. https://doi.org/ 10.1177/1359105320925149
- Chen D, Song F, Tang L, Zhang H, Shao J, Qiu R, et al. Quarantine experience of close contacts of COVID-19 patients in China: A qualitative descriptive study. Gen Hosp Psychiatry. 2020;66: 81–88. https://doi.org/10.1016/j.genhosppsych.2020. 07.006
- Canet-Juric L, Andrés ML, Del Valle M, López-Morales H, Poó F, Galli JI, et al. A Longitudinal Study on the Emotional Impact Cause by the COVID-19 Pandemic Quarantine on General Population. Front Psychol. 2020;11: 1–17. https://doi.org/10. 3389/fpsyg.2020.565688
- Biroli P, Bosworth S, Della Giusta M, Di Girolamo A, Jaworska S, Vollen J. Family Life in Lockdown. Front Psychol. 2021;12. https://doi.org/10.3389/fpsyg.2021.687570
- Greyling, T, Rossouw S, Adhikari T. A tale of three countries: How did Covid-19 lockdown impact happiness?, in GLO Discussion Paper no.584. 2020, Global Labor Organization (GLO): EU. pp. 1–10. https://www.econstor.eu/bitstream/ 10419/221748/1/GLO-DP-0584.pdf https://doi.org/http:// hdl.handle.net/10419/221748
- Lebow JL. COVID-19, Families, and Family Therapy: Shining Light into the Darkness. Fam Process. 2020;59: 825–831. https:// doi.org/10.1111/famp.12590
- Guedes A, Bott S, Garcia-Moreno C, Colombini M. Bridging the gaps: a global review of intersections of violence against women and violence against children. Glob Health Action. 2016;9. https://doi.org/10.3402/gha.v9.31516 https://doi.org/ 10.3402/gha.v9.31516
- Roesch E, Amin A, Gupta J, García-Moreno C. Violence against women during covid-19 pandemic restrictions. BMJ. 2020;369: m1712. https://doi.org/10.1136/bmj.m1712
- Makaroun LK, Bachrach RL, Rosland A-M. Elder Abuse in the Time of COVID-19-Increased Risks for Older Adults and Their Caregivers. Am J Geriatr Psychiatry. 2020;28: 876–880. https:// doi.org/10.1016/j.jagp.2020.05.017

- Han SD, Mosqueda L. Elder Abuse in the COVID-19 Era. J Am Geriatr Soc. 2020;68: 1386–1387. https://doi.org/10.1111/jgs. 16496
- Brooks SK, Webster RK, Smith LE, Woodland L, Wessely S, Greenberg N, et al. The psychological impact of quarantine and how to reduce it: rapid review of the evidence. Lancet. 2020;395: 912–920. https://doi.org/10.1016/S0140-6736(20) 30460-8
- Kumar A, Nayar KR. COVID 19 and its mental health consequences. J Ment Health. 2021;30: 1–2. https://doi.org/10. 1080/09638237.2020.1757052
- Ali NA, Feroz AS, Akber N, Feroz R, Nazim Meghani S, Saleem S. When COVID-19 enters in a community setting: an exploratory qualitative study of community perspectives on COVID-19 affecting mental well-being. BMJ Open. 2021;11. https://doi. org/10.1136/bmjopen-2021-049851
- Sandelowski M. What's in a name? Qualitative description revisited. Res Nurs Health. 2010;33: 77–84. https://doi.org/10. 1002/nur.20362
- Yeung NCY, Lau JTF, Choi KC, Griffiths S. Population Responses during the Pandemic Phase of the Influenza A(H1N1)pdm09 Epidemic, Hong Kong, China. Emerg Infect Dis. 2017;23: 813–815. https://doi.org/10.3201/eid2305. 160768
- Lau JTF, Yang X, Tsui H, Kim JH. Monitoring community responses to the SARS epidemic in Hong Kong: from day 10 to day 62. J Epidemiol Community Health. 2003;57: 864–70. https://doi.org/10.1136/jech.57.11.864
- 23. Lebow JL. Family in the Age of COVID-19. Fam Process. 2020;59: 309–312. https://doi.org/10.1111/famp.12543
- Graneheim UH, Lundman B. Qualitative content analysis in nursing research: concepts, procedures and measures to achieve trustworthiness. Nurse Educ Today. 2004;24: 105–12. https:// doi.org/10.1016/j.nedt.2003.10.001
- Polit, D.F. and C.T. Beck, Study Guide for Essentials of Nursing Research Appraising Evidence for Nursing Practice. 9 th ed. 2018, Philadelphia: Wolters Kluwer.
- Almeida M, Shrestha AD, Stojanac D, Miller LJ. The impact of the COVID-19 pandemic on women's mental health. Arch Womens Ment Health. 2020;23: 741–748. https://doi.org/10. 1007/s00737-020-01092-2
- Tejedor S, Cervi L, Pérez-Escoda A, Jumbo FT. Digital Literacy and Higher Education during COVID-19 Lockdown: Spain, Italy, and Ecuador. Publications. 2020;8: 48. https://doi.org/10.3390/ publications8040048
- Lebow JL. The Challenges of COVID-19 for Divorcing and Post-divorce Families. Fam Process. 2020;59: 967–973. https:// doi.org/10.1111/famp.12574
- Somasundaram, J, Ganesh B, Anjali A. Recreational activitis of people to reduce stress during the lockdown- A survey. PalArch's Journal of Archaeology of Egypt/Egyptology. 2020;17: 909–923. https://www.archives.palarch.nl/index.php/jae/article/view/ 1308
- Watson A, Lupton D, Michael M. Enacting intimacy and sociality at a distance in the COVID-19 crisis: the sociomaterialities of home-based communication technologies. Media International Australia. 2021;178: 136–150. https://doi.org/10.1177/ 1329878X20961568
- Cauberghe V, Van Wesenbeeck I, De Jans S, Hudders L, Ponnet K. How Adolescents Use Social Media to Cope with Feelings of Loneliness and Anxiety During COVID-19 Lockdown. Cyberpsychol Behav Soc Netw. 2021;24: 250–257. https://doi. org/10.1089/cyber.2020.0478
- 32. Galli F, Reglero G, Bartolini D, Visioli F. Better prepare for the next one. Lifestyle lessons from the COVID-19 pandemic.

PharmaNutrition. 2020;12: 1–3. https://doi.org/10.1016/j. phanu.2020.100193

- 33. Wu M, Xu W, Yao Y, Zhang L, Guo L, Fan J, et al. Mental health status of students' parents during COVID-19 pandemic and its influence factors. Gen Psychiatr. 2020;33: e100250. https://doi. org/10.1136/gpsych-2020-100250
- Banerjee D, Rai M. Social isolation in Covid-19: The impact of loneliness. Int J Soc Psychiatry. 2020;66: 525–527. https://doi. org/10.1177/0020764020922269
- 35. Zhang Y, Ma ZF. Psychological responses and lifestyle changes among pregnant women with respect to the early stages of COVID-19 pandemic. Int J Soc Psychiatry. 2021;67: 344–350. https://doi.org/10.1177/0020764020952116
- Cava MA, Fay KE, Beanlands HJ, McCay EA, Wignall R. The experience of quarantine for individuals affected by SARS in Toronto. Public Health Nurs. 2005;22: 398–406. https://doi.org/ 10.1111/j.0737-1209.2005.220504.x
- Gulia KK, Kumar VM. Reverse quarantine in Kerala: managing the 2019 novel coronavirus in a state with a relatively large elderly population. Psychogeriatrics. 2020;20: 794–795. https://doi.org/ 10.1111/psyg.12582
- Torales J, O'Higgins M, Castaldelli-Maia JM, Ventriglio A. The outbreak of COVID-19 coronavirus and its impact on global mental health. Int J Soc Psychiatry. 2020;66: 317–320. https:// doi.org/10.1177/0020764020915212
- Dong H, Yang F, Lu X, Hao W. Internet Addiction and Related Psychological Factors Among Children and Adolescents in China During the Coronavirus Disease 2019 (COVID-19) Epidemic. Front Psychiatry. 2020;11: 00751. https://doi.org/10.3389/fpsyt. 2020.00751
- 40. Minding our minds during the COVID-19. 2020. https://www. mohfw.gov.in/pdf/MindingourmindsduringCoronaeditedat.pdf
- Ara T, Rahman MM, Hossain MA, Ahmed A. Identifying the Associated Risk Factors of Sleep Disturbance During the COVID-19 Lockdown in Bangladesh: A Web-Based Survey. Front Psychiatry. 2020;11: 580268. https://doi.org/10.3389/ fpsyt.2020.580268
- Trakada A, Nikolaidis PT, Andrade MDS, Puccinelli PJ, Economou N-T, Steiropoulos P, et al. Sleep During "Lockdown" in the COVID-19 Pandemic. Int J Environ Res Public Health. 2020;17. https://doi.org/10.3390/ijerph17239094
- Roy D, Tripathy S, Kar SK, Sharma N, Verma SK, Kaushal V. Study of knowledge, attitude, anxiety & perceived mental healthcare need in Indian population during COVID-19 pandemic. Asian J Psychiatr. 2020;51: 102083. https://doi.org/10.1016/j.ajp.2020. 102083
- Hamermesh DS. Life satisfaction, loneliness and togetherness, with an application to Covid-19 lock-downs. Rev Econ Househ. 2020;18: 983–1000. https://doi.org/10.1007/s11150-020-09495-x
- Krekel C, Swanke S, De Neve J-E, Fancourt D. Are Happier People More Compliant? Global Evidence from Three Large-Scale Surveys During Covid-19 Lockdowns. SSRN Journal. 2020; 13690. https://ssrn.com/abstract=3691403 https://doi. org/10.2139/ssrn.3691403
- Joseph SJ, Shoib S, Thejaswi S, Bhandari SS. Psychological concerns and musculoskeletal pain amidst the COVID-19 lockdown. Open Jour of Psych & Allied Scie. 11: 137. https:// doi.org/10.5958/2394-2061.2020.00026.9
- 47. Joseph SJ, Gunaseelan P, Bhandari SS, Dutta S. How the novel coronavirus (COVID-19) could have a quivering impact on mental health? Open Jour of Psych & Allied Scie. 11: 135. https://doi.org/10.5958/2394-2061.2020.00016.6
- 48. Huber BC, Steffen J, Schlichtiger J, Graupe T, Deuster E, Strouvelle VP, et al. Alteration of physical activity

during COVID-19 pandemic lockdown in young adults. J Transl Med. 2020;18: 1–3. https://doi.org/10.1186/s12967-020-02591-

- Zhang H. The Influence of the Ongoing COVID-19 Pandemic on Family Violence in China. J Fam Violence. 2022;37: 733–743. https://doi.org/10.1007/s10896-020-00196-8
- McPherson AV, Lewis KM, Lynn AE, Haskett ME, Behrend TS. Predictors of Parenting Stress for Abusive and Nonabusive Mothers. J Child Fam Stud. 2009;18: 61–69. https://doi.org/10. 1007/s10826-008-9207-0

# Recuerdos individuales y confinamientos por COVID-19: las experiencias de las familias

## Resumen

#### Introducción

Comprender las reacciones psicológicas y conductuales ante las enfermedades infecciosas emergentes es crucial para gestionar los brotes epidémicos. Este estudio intenta explicar las experiencias de los familiares sobre los recuerdos individuales y cómo enfrenta-ron los confinamientos por COVID-19.

#### Métodos

Se llevó a cabo una investigación cualitativa exploratoria y descriptiva mediante análisis de contenido en la provincia de Lorestán, Irán. Se continuó con el muestreo intencional al lograr la saturación de los datos, alcanzando 29 muestras. Se realizaron entrevistas semiestructuradas en profundidad con los miembros de la familia que tuvieron la experiencia de quedarse en casa durante el cierre inducido por el COVID-19. El levantamiento de datos se llevó a cabo entre octubre de 2020 y febrero de 2021. Se utilizó el análisis de contenido presentado por Graneheim y Lundman para analizar los datos.

#### Resultados

Los resultados de este estudio contienen 100 códigos y cinco categorías, incluyendo el aprovechamiento de las oportunidades (aumento de la comunicación íntima en la familia; compensación y progreso), los mecanismos de adaptación (creación de diversión y creatividad en casa; intento de pasar el tiempo libre; deportes, lectura de libros, música; aumento de la paciencia y la tolerancia; forzar las comunicaciones por Internet), aspectos sociales (aspectos sociales positivos; aspectos sociales negativos), resultados (agradecimiento, placer y felicidad; preocupaciones; aspectos psicológicos; daños y desafíos a los cimientos de la familia), y aspectos económicos (ahorro de costes; recesión/pérdida de empleo/retroceso financiero; imposibilidad de las familias con bajos ingresos de preparar la electrónica para la educación).

#### Conclusión

La pandemia de COVID-19 y sus confinamientos han afectado a varios aspectos de la vida familiar. Los participantes han presentado los pros y los contras del confinamiento inducido por COVID-19. Los responsables de las políticas públicas deben diseñar y aplicar programas acordes con este cambio en el estilo de vida de los ciudadanos para que las familias no se vean perjudicadas.



This work is licensed under a Creative Commons Attribution 4.0 International License.