Features

Feeling prepared to face COVID-19 pandemic among Venezuelans in Chile: findings from an opinion poll

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Abstract

Introduction

International migration is a social determinant of health. The past decade has seen a large exodus of Venezuelans within Latin America, including Chile. In the past months, the world has been facing the SARS-CoV-2 coronavirus pandemic and its respiratory disease COVID-19.

Objective

To explore what factors are associated with feeling prepared to face the COVID-19 pandemic among the Venezuelan population residing in Chile.

Methods

Cross-sectional quantitative study with an opinion poll design. An online self-reported survey in Spanish and Creole was designed and piloted with experts and international migrants. It was disseminated to various international migrant groups through networks of migrant and pro-migrant organizations and the Chilean public health care network across the national territory. An effective sample size for analysis of 1690 participants was reached, of which 1008 (60%) were from Venezuela and included in this analysis. Feeling prepared to face the

COVID-19 pandemic (yes/no) among Venezuelan migrants was described, as well as relevant variables like sex, level of education, length of stay, healthcare provision, anxiety or depression due to COVID-19, confinement, and evaluation of the quality of the information provided by the COVID-19 government.

Results

65% of the Venezuelan participants reported not feeling prepared for the pandemic. Compared to Venezuelan migrants who feel prepared to face the COVID-19 pandemic, migrants who reported not feeling prepared were in a higher proportion female, with secondary education level, had arrived in Chile in the past year, do not have a job but want to work, and belong to the public healthcare provision.

Discussion

Receiving good quality information on the pandemic and mental health symptoms are important factors associated with feeling prepared to face COVID-19 in Venezuelan migrants in Chile, suggesting that increased attention towards the physical and mental health of Venezuelan migrants in Chile and the region is needed.

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Main messages

- There is no study describing what factors are associated with feeling prepared to face the COVID-19 pandemic among the Venezuelan population residing in Chile.
- Receiving good quality information about the pandemic and how Venezuelan migrants deal with mental health symptoms like anxiety and depressive symptoms are important factors for feeling prepared to face COVID-19 in Chile.
- This is a descriptive and cross-sectional study based on an opinion poll that does not allow any causal interpretation. The
 online application of the questionnaire allowed a broad scope in a short amount of time but did not allow us to add more
 sensitive questions.
- This is the first study in Venezuelan migrant populations dedicated to describing how this population is facing the SARS-CoV-2 pandemic to the best of our knowledge.

Introduction

International migration is part of a broad conceptual framework developed by the United Nations and related to human mobility¹. The International Organization for Migration defines an international migrant as "any person who is outside a State of which he or she is a citizen or national," either permanently or temporarily and regardless of their legal status². Migration is a critical event in a person's life course, during which multiple protective and risk factors for health and wellbeing interact in complex and dynamic ways³. Migration is a cross-sectional social determinant of health⁴, as individual health may be influenced by migration-related factors before, during, and after the process of migration and the social context around it⁵.

International migration can influence health outcomes through different mechanisms⁵. Experiencing health risks and human rights violations can negatively influence health, yet social capital and social protection can buffer negative experiences and prevent the appearance of adverse events during migration⁵. However, many groups of international migrants experience structural vulnerability during mobility because of limited access to health care with regards to needs, both in transit and upon arrival in the receiving country^{6,7}. This is especially frequent in irregular international migrants, refugees, and those migrants who live in poverty8. Vulnerability can be compounded in children and adolescents, women, ethnic minorities, sexual diversities, people with chronic conditions or infectious diseases, among other groups with greater exposure to processes of exclusion and social marginalization⁹⁻¹¹. Additionally, international migrants may experience lower social protection coverage¹², precarious employment and unsafe conditions¹³, and overcrowding¹⁴.

The COVID-19 pandemic may have exacerbated the different dimensions of vulnerability and marginalization that international migrants experience, depending on their particular circumstances, either because of the pre-existing factors described previously or factors directly related to the management of the pandemic, such as border closure¹⁵ and xenophobic scapegoating¹⁶. In that sense, taking into account all dimensions of migration as a social determinant of health is paramount to a comprehensive analysis of the effects of the COVID-19 pandemic on migrant populations.

Chile has become a receiving country of international migrants, mostly migrants from other Latin American countries. According to the latest report of the National Statistics Institute and the Department of Immigration and Migration of the Ministry of the Interior and Public Security published in 2019, there were 1 492 522 international migrants in Chile, 7.7% of the national population ¹⁷. Venezuelan migrants represent the first country of origin of international migrants residing in Chile, with an estimated 30.5% of the total migrant population. Globally, approximately 4.3 million Venezuelan migrants, refugees, and asylum-seekers were living outside of their country of origin as of September 2019, with outflows that have been heavily increasing since 2017. This represents one of the largest modern exoduses of international migrants from Latin America in the past century, impacting the region's national health systems' capacity and planning directly.

In accordance with national legislation and international recommendations, the Ministry of Health in Chile has been promoting access to health services to these populations progressively, as urged by the WHO (World Health Organization) at the 61st World Health Assembly, Resolution WHA61.17 of 2008 and PAHO (Pan American Health Organization) at the 55th Directing Council of the Organization. The most important breakthrough with regards to international migrants' access to health in Chile is the Supreme Decree N°67 of 2016, which allows irregular migrants without a formal income to access public health services under the same conditions as Chileans who do not receive an income. Regular migrants may choose between public and private health coverage in equal conditions with regards to the locals. Considering global processes of migratory flows relevant to Chile, in 2015, the Ministry of Health in Chile launched the Pilot Health Plan for International Migrants, which was implemented in 2016 and 2017. The Plan made way for the Health Policy for International Migrants launched in October 2017 and its upcoming Action Plan. These efforts by the Ministry of Health in Chile have catalyzed the gradual expansion of the rights of the migrant population in the public health care system.

As of July 20, 2020, 14 599 613 people were diagnosed with COVID-19 worldwide, and 607 746 lives were claimed, mostly in the United States, Brazil, and India¹⁸. On that same date, Chile was ranked number eight in the ranking of confirmed cases, totaling 330 930 people. The global health crisis and the Chilean crisis have hit international migrant populations with greater severity and desolation in many cases, which could be explained by the difficulties that some of these groups have experienced in accessing prevention, diagnosis, and treatment measures, due to lack of information and



knowledge, fear associated with their informality or discrimination and marginalization 19,20.

The untimely experience of the pandemic for international migrant populations in Chile has not necessarily been accompanied by a deep understanding of the degree of knowledge, concerns, and needs felt about COVID-19 by these communities^{21,22}. This is particularly relevant to Venezuelan migrants who have been experiencing social conflict, economic crisis, and poverty for many years before moving to another country, many of them as refugees and asylum seekers²³. Chile requires a better understanding of how Venezuelan migrants are experiencing and facing the COVID-19 pandemic to promote more equitable and culturally pertinent actions towards preventing and managing this sanitary crisis. To that effect, the following is our research question: "Do Venezuelan migrants in Chile feel prepared to face the pandemic, and what are the variables associated with feeling prepared?" The purpose of this study was to describe the experience of feeling prepared to face the COVID-19 pandemic among Venezuelans residing in Chile.

Methods

Study design

Quantitative observational and cross-sectional study. The study was conducted following a digital opinion poll design.

Procedure

An online self-applied survey was prepared in two languages, Spanish and Creole, aimed at international migrants over 18 who were living in Chile at the time of the survey. The survey included 34 questions and was aimed at identifying, on the one hand, the level of knowledge that immigrant populations in Chile had around COVID-19 and prevention measures and, on the other hand, their immediate needs and concerns towards the future as a consequence of the pandemic. The study design was based on relevant variables from international literature (demographic, socioeconomic, and migration-related variables) and COVID-19 official data from the World Health Organization and the Chilean Ministry of Health (knowledge about its transmission and prevention measures). It was designed with healthcare and migration experts from the participating institutions and piloted with international migrants from different countries of origin (n = 8) before its mass dissemination. The strategy for recruiting and selecting participants in this study was ad-hoc to applying a virtual survey. The survey was shared with various international migrant groups through migrant and pro-migrant organizations and the country's public health care network. Mailings were made to databases of all the institutions involved, with weekly reinforcement through Facebook, Twitter, email, and WhatsApp standardized messages. Migrant and promigrant organizations and groups handed over the invitation to their key contacts following the snowball sampling strategy²⁴, useful for studies with hard-to-reach populations^{25,26}. Close contact was maintained with these organizations during data collection to ensure, to the maximum extent possible, that the survey was answered by foreign persons effectively during the three weeks that the survey was available for completion (April 4 to 24, 2020).

Participants

The study included adults who reported being international migrants residing in Chile during the COVID-19 pandemic. Those who

agreed to participate in the survey confirmed their interest in participating by clicking a digital informed assent before the self-applied survey could be completed. The only exclusion criterion was not having Internet access to answer the survey. After three weeks of dissemination of this survey, an effective sample size of 1 690 participants was reached. This analysis focuses on Venezuelan migrants, who represented 1 008 participants from the general study. All analyses presented in this manuscript were conducted on this subgroup only.

Variables

The main variable was "feeling prepared to face COVID-19" (yes/no). Additional variables were: region of residence in the country, level of education (basic, medium, high), length of stay in Chile (less than six months, six to 12 months, one to five years, five to ten years, more than ten years), type of healthcare provision entitlement (public Fonasa, private Isapre, I don't know, I don't have, other), employment status (has a job, doesn't have but wants to work, does not have and does not want to work), symptoms of anxiety and depression due to the COVID-19 pandemic in the past week (yes/no, respectively), following quarantine (yes/no), feeling well informed about the pandemic (yes/no) and perception of the quality of the information related to COVID-19 provided by government and healthcare teams (very good/good, bad/very bad). Following a survey study design, data were self-reported. Only the questions addressing these variables were taken into account from the survey's more extensive set of questions.

Data analysis

Missing data was virtually inexistent in this dataset. A descriptive analysis of quantitative and categorical study variables was performed. Proportions and means were estimated for each variable, according to the type of variable. The analysis was conducted for the entire sample first and then stratifying by those reporting feeling prepared versus not feeling prepared to face the COVID-19 pandemic. Data analysis was carried out with Stata 16.

Risk of bias

This was an exploratory, descriptive study. Selection bias due to lack of Internet access by migrants is recognized as a limitation. Other potential selection biases were attempted to be controlled by exhaustive and ample recruitment processes via several relevant institutions that collaborated to disseminate the project and the poll. Information bias was attempted to be controlled by a prior piloting phase of the questionnaire and not including potentially sensitive questions to migrants and a short, simple online format.

Ethical aspects

The opinion poll proposal and questionnaire were revised by a social and ethics committee at collaborative institutions that included international migrants and experts on migration in Chile. Voluntary participation was secured through a digital informed assent from participants, who had to read and confirm their acceptance to participate before starting the survey. No question that could be considered sensitive was included in the survey, such as immigration status, poverty or overcrowding, perceived discrimination, etc. Before its application, the collaborating institutions reviewed the survey, who have experience in opinion polls and work closely with multiple international migrant communities in the country. A secure online software was used, and the database was stored under a



password on the principal investigator's computer. To thank the participants, general information about the rights to health of migrants in Chile at the Digital Observatory on Health of International Migrants of Chile was made available at the online survey's termination.

Results

The study participants' average age was 38.1 years (s.d. 10.1), and 71% of the sample was female. Most of the Venezuelan participants in this study had arrived in Chile between one and five years prior (70%) and resided in the Metropolitan Region (69%); 80% achieved a university education; 53% had a job, and 45% did not but wanted to work; 64% were enrolled in the public health system (Fonasa), and 21% indicated that they did not have any health insurance (Table 1).

Table 1. General description of study participants (n = 1008)

	Average	s.d.		
Age (continuous)	38.4	10.1		
	n	%		
Total	1008	100%		
Sex				
Female	717	71.1%		
Male	291	28.9%		
Educational level				
University	810	80.3%		
Secondary	187	18.5%		
Primary	9	0.8%		
No data	2	0.2%		
Length of stay in Chile				
< 6 months	41	4.0%		
6 to 12 months	242	24.0%		
1 to 5 years	700	69.4%		
6 to 10 years	20	1.9%		
> 10 years	5	0.5%		
Has a job				
Yes	541	53.6%		
No, but wants to work	454	45.0%		
No, and does not want to work	13	1.2%		
Type of healthcare insurance				
Isapre (private)	122	12.1%		
Fonasa (public)	645	63.9%		
Do not have	213	21.1%		
Do not know	24	2.3%		
Other	4	0.4%		
Region of the country of residence				
I Tarapacá	2	0.2%		
II Antofagasta	19	1.8%		
III Atacama	2	0.2%		
IV Coquimbo	38	3.7%		
IX Araucanía	10	0.9%		
V Valparaíso	42	4.1%		
VI Libertador Bernardo O'Higgins	28	2.7%		
VII Maule	13	1.2%		
VIII Bío Bío	51	5.0%		
X Los Lagos	92	9.1%		
XII Magallanes y la Antártica Chilena	2	0.2%		
XIII Metropolitana	697	69.1%		
XIV Los Ríos	3	0.3%		
XV Arica y Parinacota	3	0.3%		
XVI Nuble	6	0.6%		

Prepared by the authors from the study data.

78% of Venezuelan participants reported receiving sufficient information about this virus and its disease, but 22% reported that the information was not understandable, and about one in four Venezuelan migrants qualified the information about COVID-19 of poor or very poor quality (23%). 91% reported feeling distressed or worried, and 72% sad or depressed because of the pandemic in the preceding week.

35% of Venezuelan participants reported feeling prepared to face the COVID-19 pandemic, and 65% reported not feeling prepared to face the COVID-19 pandemic. When looking at socio-demographic characteristics of those who reported feeling we prepared, the mean age of this group was 41 (s.d. 10.2) years old, 64% were female, 84% achieved a University education level, 71% had come one to five years ago, and 21% had come six months to a year ago, 55% had a job, and 43% did not have a job but would like to work, 59% belonged to the public healthcare system, and 21% did not have health insurance, and 72% resided in the Metropolitan region. Those who reported not feeling prepared were 37 years old (s.d. 9.6), 75% female, 79% had university-level education, and 20% had a secondary level, 69% had come one to five years ago, and 26% had come six months to a year ago, 53% had a job, and 46% did not have a job but would like to work, 67% belonged to the public healthcare system, and 21% did not have health insurance, and 68% resided in the Metropolitan region (Table 2). That is, compared to Venezuelan migrants who feel prepared to face the COVID-19 pandemic, migrants who reported not feeling prepared were younger and in a higher proportion female, with secondary education level, had arrived in Chile in the past year, do not have a job but want to work, and were covered by the public healthcare provision.



Table 2. Socio-demographic characteristics of study participants according to feeling prepared / not feeling prepared to face the COVID-19 pandemic among Venezuelan migrants in Chile (n = 1008)

		Total -		Feeling prepared to face the COVID-19 pandemic					
			Yes			No			
	n	%	n	% column	% row	n	% column	% row	
Total	1008	100%	354		35%	654		65%	
Sex									
Female	717	71.1%	227	64.1%	31.7%	490	74.9%	68.3%	
Male	291	28.8%	127	35.8%	43.6%	164	25.0%	56.3%	
Education level									
University	810	80.3%	296	83.6%	36.5%	514	78.5%	63.4%	
Secondary	187	18.5%	55	15.5%	29.4%	132	20.1%	70.5%	
Primary	9	0.8%	3	0.8%	33.3%	6	0.9%	66.6%	
No data	2	0.2%	0	0.0%	0.00%	2	0.3%	0.0%	
Length of stay in Chile	•								
< 6 months	41	4.0%	10	2.8%	24.4%	31	4.7%	75.6%	
6 to 12 months	242	24.0%	75	21.1%	31.0%	167	25.5%	69.0%	
1 to 5 years	700	69.4%	252	71.1%	36.0%	448	68.5%	64.0%	
6 to 10 years	20	1.9%	14	3.9%	70.0%	6	0.9%	30.0%	
> 10 years	5	0.5%	3	0.8%	60.0%	2	0.3%	40.0%	
Has a job									
Yes	541	53.6%	196	55.4%	36.2%	345	52.8%	63.8%	
No, but wants to work	454	45.0%	152	42.9%	33.5%	302	46.2%	66.5%	
No, and does not want to work	13	1.2%	6	1.7%	46.2%	7	1.1%	53.8%	
Type of healthcare insurance									
Isapre (private)	122	12.1%	65	18.4%	53.3%	57	8.7%	46.7%	
Fonasa (public)	645	63.9%	209	59.0%	32.4%	436	66.7%	67.6%	
Do not have	213	21.1%	73	20.6%	34.3%	140	21.4%	65.7%	
Do not know	24	2.3%	5	1.4%	20.8%	19	2.9%	79.2%	
Other	4	0.4%	2	0.6%	50.0%	2	0.3%	50.0%	
Region of the country of residence	· · · · · · · · · · · · · · · · · · ·								
I Tarapacá	2	0.2%	1	0.3%	50.0%	1	0.2%	50.0%	
II Antofagasta	19	1.8%	4	1.1%	21.1%	15	2.3%	78.9%	
III Atacama	2	0.2%	2	0.6%	100.0%	0	0.0%	0.0%	
IV Coquimbo	38	3.7%	10	2.8%	26.3%	28	4.3%	73.7%	
IX Araucanía	10	0.9%	4	1.1%	40.0%	6	0.9%	60.0%	
V Valparaíso	42	4.1%	14	4.0%	33.3%	28	4.3%	66.7%	
VI Libertador Bernardo O'Higgins	28	2.7%	8	2.3%	28.6%	20	3.1%	71.4%	
VII Maule	13	1.2%	5	1.4%	38.5%	8	1.2%	61.5%	
VIII Bío Bío	51	5.0%	11	3.1%	21.6%	40	6.1%	78.4%	
X Los Lagos	92	9.1%	35	9.9%	38.0%	57	8.7%	62.0%	
XII Magallanes y la Antártica Chilena	2	0.2%	0	0.0%	0.0%	2	0.3%	100.0%	
XIII Metropolitana	697	69.1%	255	72.0%	36.6%	442	67.6%	63.4%	
XIV Los Ríos	3	0.3%	1	0.3%	33.3%	2	0.3%	66.7%	
XV Arica y Parinacota	3	0.3%	1	0.3%	33.3%	2	0.3%	66.7%	
XVI Ñuble	6	0.6%	3	0.8%	50.0%	3	0.5%	50.0%	

Prepared by the authors from the study data.



Discussion

The SARS-CoV-2 pandemic hit Chile and the Latin American region with great intensity. It affected the general population, especially older people, those with a history of chronic diseases, people who suffered from excess weight, and some groups experiencing socioeconomic deprivation, including international migrants living in poverty, overcrowding, irregular migratory condition, and informal employment. On March 3, 2020, this virus entered the country through a Chilean traveler who had been vacationing on the Asian continent. Today, the COVID-19 pandemic has spread to the entire national territory and has become a national emergency. Much needs to be done in the coming months to support the health of the Chilean and migrant population residing in the country, as the pandemic's negative consequences are still to be known.

This study shows that Venezuelan migrants in Chile present low levels of preparedness with regards to the sanitary crisis, as only 35% of respondents reported feeling prepared. Receiving good quality information about the pandemic and how Venezuelan migrants deal with mental health symptoms like anxiety and depressive symptoms are important factors for feeling prepared to face COVID-19 in Chile. Both dimensions are potentially modifiable to influence better health care for migrants in times of pandemic. These results are consistent with what is being presented by international evidence in the context of the international migrant population's situation facing the COVID-19 pandemic.

Our findings suggest that increased attention towards the health of Venezuelan migrants in Chile and the region is needed. The data documenting how Venezuelan migrants are coping with the COVID-19 crisis is scarce, yet available evidence suggests that they are struggling²³. Reinforcing measures to support Venezuelan migrants during and after this sanitary crisis has been recommended^{27,28}. Actions related to protecting their health and healthcare are urgent and should be based upon the pillars and principles of public health, human rights, solidarity, and equity. Further actions towards universal health coverage and a transnational approach to continuity of care are needed. As the Venezuelan exodus has proven in recent years, the regional health care agenda should leave no one behind. Structural inequalities and deficiencies of healthcare systems in many Latin American countries quickly reappear when massive movements of people within the region and sanitary crises take place. Discriminatory and xenophobic situations tend to increase, as countries and healthcare systems are tensioned and exhausted by their incapacity to provide solutions when they are needed. The COVID-19 pandemic is a huge stressor, but it can also become an opportunity for creating and implementing novel strategies to deliver and maintain health care in our region, in which regional cooperation might be a large part of the answer.

There is consensus that the COVID-19 pandemic is exacerbating the precarious situation of migrant populations globally and Venezuelan migrants regionally²⁹. Some authors even indicate that ongoing global efforts to support international migrant groups in the wake of the pandemic have failed in their task^{27,28}. Prevention measures aimed at international migrants, regardless of their immigration status, age, country of origin, or employment status, has been outlined as a priority issue for global public health^{21,29}. This is of great relevance given the barriers that have been identified worldwide for the access and use of healthcare by the migrant

population during the COVID-19 pandemic and the measures promoted by health authorities at the global level. Additionally, the evidence accounts for a general lack of information regarding COVID-19 in the migrant population globally²⁹⁻³². Furthermore, for some migrant groups, most countries' social distancing and hygiene improvement measures are challenging to comply with¹⁹.

The general scientific literature on the field has documented that migrant populations present worse health results than the national population in various areas, including mental health. Under non-pandemic conditions, the international migrant population generally presents higher rates of common mental health disorders such as depression and a lower quality of life than the local population³³. These health issues are being exacerbated during the current COVID-19 crisis²⁰. In that sense, there is a need to ensure that migrant populations can access physical and mental healthcare and information relevant and culturally sensitive^{29,31}. Little is known in the Latin American region about how Venezuelan migrants are experiencing and coping with the COVID-19 pandemic. This study aims to provide novel descriptive evidence on this subject, as the Venezuelan exodus to countries in the Latin American region continues to raise challenges and pitfalls.

The study presents some limitations. First, this is a descriptive and cross-sectional study based on an opinion poll that does not allow any causal interpretation. Second, the online application of the questionnaire allowed a broad scope in a short amount of time but did not allow us to add more sensitive questions. Hence, this study is only exploratory and should be improved through more detailed quantitative and qualitative studies in the future. However, to the best of our knowledge, this is the first study in Venezuelan migrant populations dedicated to describing how they face the SARS-CoV-2 pandemic. We hope that future studies will delve into these general results and that, despite its limitations, study findings will be considered for decision-making regarding the Venezuelan population in Chile and the region, regarding the issues of access, protection, and prevention in health, both during the current health crisis and future ones.

We conclude that Venezuelan migrants in Chile present low levels of preparedness regarding the sanitary crisis, as only 35% of respondents reported feeling prepared. Receiving good quality information about the pandemic and how Venezuelan migrants deal with mental health symptoms like anxiety and depressive symptoms are important factors for feeling prepared to face COVID-19 in Chile. These elements need further attention in Chile in the management of the present pandemic and the preparedness and response of future ones.

Notes

Authorship contributions

BC: Conceptualization, data curation, funding acquisition, methodology, project administration, supervision, validation, writing original draft. FD: Data curation, formal analysis, software, validation, writing original draft. AB: Conceptualization, methodology, resources, project administration, validation, writing original draft. AO: Conceptualization, funding acquisition, project administration, supervision, validation, writing original draft. CS: Methodology, supervision, validation, writing original draft.

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Competing interest

Each author declares there are no competing interests with the content of this article

Supplementary files

None.

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