

# The Santiago Immigrant Wellbeing Study (STRING): Prevalence of mood disorders among immigrants in Santiago, Chile

<b>Submission date</b> 20/10/2018	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
<b>Registration date</b> 30/10/2018	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 28/10/2022	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Evidence suggests that a personal or family history of migration is a psychologically stressful life event and a risk factor for developing psychotic disorders and schizophrenia in some ethnic minorities and/or immigrant populations. However, research on the potential influence of immigration on the prevalence of affective disorders (i.e. depression, bipolar disorder) is more limited and the evidence is more ambiguous. The general aim of this study is to explore the prevalence of affective disorders and use of mental health services on immigrant populations in the Metropolitan Region of Santiago in Chile.

### Who can participate?

Adults residing in private households in the Metropolitan Region of Santiago, Chile who were born outside of Chile and have lived in the country for at least 6 months

### What does the study involve?

A 45 minute face to face interview covering socioeconomic situation, immigration history, experience of victimization, discrimination, alcohol use, social support, mental wellbeing, affective disorders, depressive and anxiety symptoms and experience of childhood adversity.

### What are the possible benefits and risks of participating?

There are no known benefits or risks of participating in this study.

### Where is the study run from?

Department of Psychiatry, School of Medicine, Pontifical Catholic University of Chile (Chile)

### When is the study starting and how long is it expected to run for?

October 2017 to October 2019

### Who is funding the study?

Chilean National Commission for Scientific and Technological Research (CONICYT) (Chile)

Who is the main contact?

Antonia Errázuriz  
anerrazuriz@uc.cl

## Contact information

### Type(s)

Scientific

### Contact name

Dr Antonia Errazuriz

### Contact details

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## Additional identifiers

### Protocol serial number

Fondecyt 11170828

## Study information

### Scientific Title

Prevalence of mood disorders and mental health service use among immigrants of the Metropolitan Region of Chile

### Acronym

STRING

### Study objectives

1. A healthy immigrant effect will be observed in the studied population by which their prevalence of Affective Disorders (AD) will be lower than the prevalence in the general Chilean population.
2. A significant association will be observed between the loss of socio-economic position after migration and a greater probability of AD in immigrants.
3. A significant association will be observed between the report of victimization experience(s) in the previous year and a greater probability of AD in immigrants.
4. A significant association will be observed between financial difficulties and a greater probability of AD in immigrants.

### Ethics approval required

Old ethics approval format

### **Ethics approval(s)**

1. Ethical Scientific Committee of the Social Sciences of the Pontifical Catholic University of Chile, 06/12/2017, ref: 170519004
2. Ethical Scientific Committee of the South Metropolitan Health Service of the Chilean Ministry of Health, 04/04/2018, ref: 145/2018

### **Primary study design**

Observational

### **Study design**

Observational epidemiological cross-sectional study

### **Study type(s)**

Other

### **Health condition(s) or problem(s) studied**

Affective/Mood Disorders

### **Interventions**

The sampling framework of the Chilean National Institute of Statistics (INE) from the 2016 Census will be used in MRS and for the purpose of this research it included the following sampling units:

1. Primary sampling units (PSUs): conglomerates or groups of adjoining houses, organized in spatial blocks (200 households on average)
2. Secondary sampling units (SSUs): individual households within each of the conglomerates selected in the first stage
3. Final sampling units: persons meeting the study's inclusion criteria

Multi-stage random probability sampling involving a 3-stage sampling design will be used - first, the sampling of the primary sampling units (PSUs); second, the sampling of households within the selected PSUs and finally, the random sampling of a household member.

Participants will then take part in a 45-minute interview. This interview will be a household survey using the modular version of the Composite International Diagnostic Interview (WHO-CIDI) will be conducted to explore a broad spectrum of factors traditionally associated with increased risk of affective disorders:

1. Sociodemographics
2. Finance
3. Variation in socioeconomic position
4. Experience of victimization
5. Discrimination

Added 09/08/2019: 6. Experience of childhood adversity

### **Intervention Type**

Other

### **Primary outcome(s)**

Major depressive episodes, assessed using the World Health Organisation Composite International Diagnostic Interview (WHO-CIDI) at the study interview

### **Key secondary outcome(s)**

The following are assessed at the study interview:

1. Any affective disorder, assessed using the World Health Organisation Composite International Diagnostic Interview (WHO-CIDI)
2. Bipolar disorder, assessed using the WHO-CIDI
3. Suicidal ideation, plans and attempts, assessed using the WHO-CIDI
4. Mental health service use, assessed using items SR27, SR37, SR47, SR57, SR133, SR139, SR143 and SR149 of the Services Module of the WHO-CIDI
5. Discrimination, assessed using the Spanish-validated version of the Everyday Discrimination Scale (EDS)
6. Mental wellbeing, assessed using the Warwick-Edinburgh Mental Well-Being Scale (WEMWBS)
7. Depressive symptoms, assessed using the nine-item Patient Health Questionnaire (PHQ-9)
8. Hazardous/harmful drinking, assessed using the Alcohol Use Disorders Identification Test (AUDIT)
9. Functional social support, assessed using the 11-item Duke-UNC Functional Social Support Questionnaire (FSSQ)

Added 09/08/2019:

10. Resilience assessed using the Connor-Davidson Resilience Scale (CD-RISC)
11. Childhood adversity using items from the Adverse Childhood Experience (ACE) Questionnaire
12. Anxiety symptoms assessed using the Generalized Anxiety Disorder 7-item (GAD-7) scale

**Completion date**

31/10/2019

## Eligibility

**Key inclusion criteria**

1. Residents of the Metropolitan Area of Santiago (MAS), Chile
  2. Born outside of Chile
  3. Aged 18 or over
  4. Lived in Chile for at least 3 months (updated 09/0/2019: for at least 6 months)
- Added 09/08/2019: 5. Be able to provide informed consent (participants unable to understand Spanish will not be recruited)

**Participant type(s)**

All

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

All

**Total final enrolment**

1098

### **Key exclusion criteria**

1. Inability to read and write
2. Suffering from disability or condition which makes participation in survey difficult
3. Both parents Chilean-born

### **Date of first enrolment**

01/08/2019

### **Date of final enrolment**

18/10/2019

## **Locations**

### **Countries of recruitment**

Chile

### **Study participating centre**

**Department of Psychiatry, School of Medicine of the Pontifical Catholic University of Chile**

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Santiago

Chile

8331150

## **Sponsor information**

### **Organisation**

Pontifical Catholic University of Chile (Pontificia Universidad Catolica de Chile)

### **ROR**

<https://ror.org/04teye511>

## **Funder(s)**

### **Funder type**

Government

### **Funder Name**

Comisión Nacional de Investigación Científica y Tecnológica

### **Alternative Name(s)**

National Commission for Scientific and Technological Research, CONICYT

### Funding Body Type

Government organisation

### Funding Body Subtype

National government

### Location

Chile

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Dr Antonia Errazuriz (anerrazuriz@uc.cl). The anonymized database will be made available from 01/01/2022 to researchers from known research centers based upon the quality of the research proposal brought forward. Participants will give consent to this.

### IPD sharing plan summary

Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Other publications</a>		27/10/2022	28/10/2022	Yes	No