## Design and Study Population

This study conducted an secondary analysis on data from the 2022 Venezuelan Population Residing in Peru Survey (ENPOVE 2022 - acronym in Spanish). This second survey was carried out by the National Institute of Statistics and Informatics (INEI - acronym in Spanish) during February and March 2022. The survey contains information on the demographic, social, economic, health status, vulnerability and protection needs of the Venezuelan refugee and migrant population in Peru. For further information on sample design, procedures and data collection, consult the ENPOVE 2022 data sheet and report [@institutonacionaldeestadísticaeinformática2022a] [@institutonacionaldeestadísticaeinformática2022].

The total sample size of the ENPOVE 2022 was 3,680 households with a total of 12,487 participants. The sample selection was probabilistic, stratified, and independent in 8 provincial capitals: Tumbes, Piura, Chiclayo, Trujillo, Chimbote, Ica, Arequipa, Lima and Callao, as these cities concentrate 195,710 households, which represented 82.9% of the total number of households with Venezuelan migrant and refugee population at the national level [@institutonacionaldeestadísticaeinformática2022].

## Variables and Measurements

### Individual food insecurity

The primary outcome in this study was food insecurity, which was measured using the Food Insecurity Experience Scale (FIES), this is a metric of severity of food insecurity at the household or individual level composed of eight questions with dichotomous ("yes"/"no") responses, also have eligible modules depending on the response unit and reference period (30 days or 12 months). This statistical measurement scale is an one-dimensional measure using the Rasch model and [@cafiero2018]

### Explanatory variables

## Statistical analysis

We used simple and multiple ordinal logistic regression models to estimate unadjusted and adjusted odds ratios with their respective 95% confidence intervals (95% CI) to evaluate the association of independent variables with FIES.

## Ethical considerations