



# CRONICAS

CENTRO DE EXCELENCIA EN ENFERMEDADES CRÓNICAS

## **I Jornada COPLAS**

### **Mesa Redonda 1 – Población y muestra**

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# CRONICAS Cohort Study

Open Access

Protocol



## Addressing geographical variation in the progression of non-communicable diseases in Peru: the CRONICAS cohort study protocol

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### ABSTRACT

**Background:** The rise in non-communicable diseases in developing countries has gained increased attention. Given that around 80% of deaths related to non-communicable diseases occur in low- and middle-income countries, there is a need for local knowledge to address such problems. Longitudinal studies can provide valuable information about disease burden of non-communicable diseases in Latin America to inform both public health and clinical settings.

**Methods:** The CRONICAS cohort is a longitudinal

### ARTICLE SUMMARY

#### Article focus

- Compare prevalence and risk factors of cardiovascular and chronic obstructive pulmonary disease among three different populations.
- Compare rate of disease progression to hypertension and diabetes from a disease-free baseline status between populations.
- Compare rate of lung function decline between populations.



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# Specific Aims

1. Determine the **CVD risk factors** in three sites at different stages of urbanization
2. Estimate **disease progression to hypertension and diabetes** from a baseline disease-free status
3. Estimate the **prevalence of COPD**
4. Characterize the **longitudinal rate of decline in lung function**



Fig. 1 – Map of Peru indicating the CRONICAS Cohort Study's sites.

# Mesa Redonda 1 – Población y Muestra

- Target enrollment
  - 1000 participants **per study site**
  - With completed clinical measurements
    - Anthropometry and blood pressure
    - Blood glucose
    - Spirometry
- Diferencias de acuerdo al análisis

# Settings



Fig. 1 – Map of Peru indicating the CRONICAS Cohort Study's sites.

# Study settings & target population (enrollment)

Setting & n	Degree of urbanization	Use of biomass fuel	Outdoor air pollution	Altitude
Lima (n 1,000)	Highly urbanized	Rare	High	Sea level
Tumbes (n 1,000)	Semi-urban	Highly prevalent	Low	Sea level
Puno, urban (n 500)	Urban	Rare	Low	3825 meters above sea level
Puno, rural (n 500)	Rural	Highly prevalent	Low	3825 meters above sea level

# Site: Lima, urban “Pueblo Joven”



# Site: rural Puno, near Bolivian border



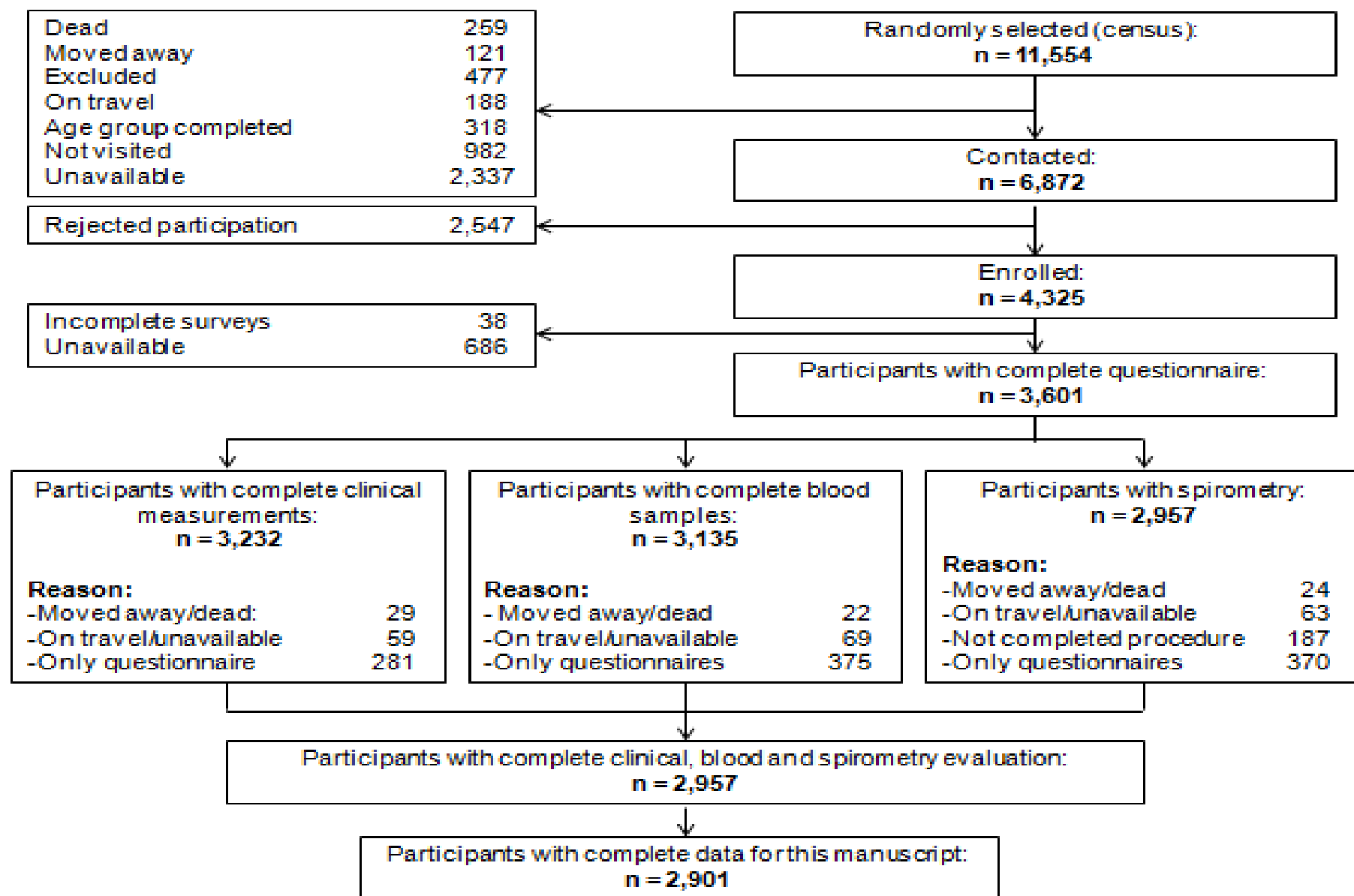
# Site: Tumbes, near Ecuadorian border



# Sociodemographic indicators

	Lima - SJM district	Puno	Tumbes
Population	362,643	1,268,441	200,306
Spanish native language	96%	35%	100%
Illiteracy	7%	16%	10%
No health insurance	63%	73%	50%
Rural areas	0%	61%	11%









## Our values

Generosity

Innovation

Integrity

Quality

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