# **MAUCO – Maule Cohort**

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## Resource Gaps and Barriers

- 1. MAUCO
- 2. Biobank & Data sharing Barriers
- 3. Discussion





#### **OBJECTIVES**

- 1. Physical/mental health, healthy aging, events.
- 2. Exposures genetic-environment
- 3. Create a biobank
- 4. Preventive interventions

#### **METHODS**

- Location: Molina
- Participants: population-based, age 38-74 yrs. Target 10,000 participants.
- **Baseline:** 2015-2019. Follow-up: 2017-2023.
- Surveillance of events.
- Re-examination every 2 years.



**Blood tests** 

Hepato-biliary

Bioimpedance

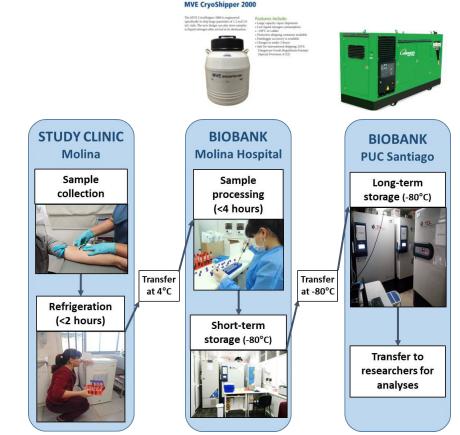
ultrasound

Waist, arm

**Peak Flow test** 

# 1. Biobank Barriers and Gaps

Electrical power, internet connection
Dry Ice / Dry Shipper
Equipment maintenance, emergencies
Independent Administration
International certification biobanking training
Quality control of the samples
Biobank management software license
Tissue bank protocols
Communication: biobanks relevance & impact





# 2. Data Sharing Gaps

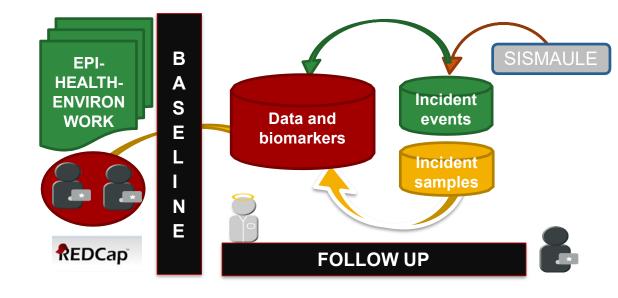
### 1. Advanced Human Resources:

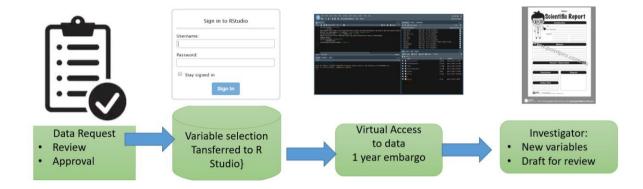
- Data processing & QC
- Data analysis
- Scientific reporting
- Communication
- Drug and disease coding

## 2. Data sharing system

## 3. Effective support committees

- Adjudication committee
- Data access committee





## Studies nested in MAUCO

#### Initiated

- COVID 19: centinel center, epi, clinic, host and virus genomic,
- ADHD exomic variants of approx. 250,000 markers
- Microbiome, H pylori and biliary disease
- Genomic analysis first 4,000 participants (SNPS & Ancestry)
- Aflatoxin exposure
- Cognitive function and predictors
- Cholecystectomy and NAFLD
- Pesticide exposure
- Frailty, sarcopenia, and mortality

### **Planned**

Full exome sequencing of the 10,000 (Regeneron)



# **Discussion**

- 1. IHCC liaison with MAUCO
- 2. Training Certification
- 3. IHCC Outreach to Policy makers.











# THANK YOU MUCHAS GRACIAS



