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.
• Surveillance of events.
• Re-examination every 2 years.
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

Data and biomarkers

FOLLOW UP

SISMAULE
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