Longitudinal Study of Health and Ageing in Kenya - LOSHAK

Basic Overview
• 2022-24
  • Feasibility/validation phase
• Future
  • Nationally-representative Wave 1
• Feasibility/validation
  • Leverages existing Kaloleni/Rabai Community Health and Demographic Surveillance System (KRHDSS)

Study Population (current phase)
• 200 households
• Age ≥ 45 years
• Purposive sampling
  • Age strata
  • Gender
  • Urban/peri-urban residence
Timeline

- **February 2022**: LOSHAK R21 Proposal submission
- **May 2022**: Proposal funded
- **April 2023 – September 2023**: Data collection & analysis
- **2024-**: Future planning/next phase
LOSHAK - Domains

Study Design
• Survey mode
  • Face-to-face in home survey performed by trained interviewers
• What type of information are you collecting?
  • Cognitive, psychosocial, mental health, climate shocks, air pollution monitoring, economics, caregiving exposures and stress, physical performance, and anthropometrics

Biomarkers
• What tissues are you planning to collect?
  • Dried Blood Spots
• What assays are you planning?
  • Hemoglobin (Hb)
  • Glycolated Hb (HbA1c)
  • C-Reactive Protein (CRP)
• Which are you interested in collecting in future?
  • Venous blood
  • Genomics

Additional info
• Goals
  • Gauge biomarker collection acceptance and feasibility
  • Evaluate assay concordance with Univ Washington lab
  • Assess willingness to allow genomic sequencing
  • Large expansion of assays in Wave 1, including ADRD