# COGNITIVE ASSESSMENT TEAM DR. B MATAFWALI MR. G WALUBITA MR. K KALIMA

## AIM

- To investigate the effects of Pb on cognitive function of children from 4-10 years old.
- Establish whether there is greater impact on cognitive function for those with greater Pb exposure.

### METHODOLOGY

- Prospective study
- Sample: Two groups for purposes of comparison
  - One in Exposed area and the other in non-exposed area(if possible)
  - Approximately 500 children (250 exposed and 250 non-exposed)
  - Children from Government schools
- Using a battery of tests-used for scientific and research purposes in Zambia and Sub-saharan Africa



Exposed

Group (Experimental)

250

Non-exposed group (Control) 250

#### Instruments for Data Collection

- Neuropsychological Asssessment Tool (NEPSYII)
- Universal Non-verbal Intelligence Tool (UNIT)
- Kaufmans Assessment Battery for Children (KABCIII)
- Zambia Cognitive Assessment Tool (ZamCAT)
- Variables under study
  - Executive function
  - Language function
  - Memory function
  - Fine motor function
  - Literacy and Numeracy
- Confounding variables: Age, gender, grade level, SES, Birth-weight

# ANTICIPATED CHALLENGES

• Time-frame to collect all the data...testing time est. 45-60Minutes.