

# Quantitative data plan analysis

REDRESS

Lucas Sempe

Queen Margareth

2022/05/01 (updated: 2022-05-09)

# HMIS data


- describe trends over time in the country
- detect differences between pre and post intervention in different counties

$$Y = \alpha_0 + \beta_1 \text{Time} + \beta_2 \text{Treat/Control} + \beta_3 \text{Time} * \text{Treat/Control} + \epsilon$$

- analysis done aggregating data from health facilities at county level
- higher number of observations provide large statistical power



# Health facilities (i)

- descriptive analysis of NTDs cases at health facility level (& comparison over time)
  -  differences between case-management and control districts in terms of number and type and management of cases
  - interactive map with number and type of cases per Health facility

# Health facilities (ii)

- descriptive analysis of lab cases at health facility level (& comparison over time)
  - per disease

# Health workers (i)

- Descriptive analysis (& comparison over time) of health workers at health facility level
  - sex, age, income, education
  - supervision
  - stigma
  - social distancing

**differences between health workers**



# Health workers (ii)

- Comparison between Likert scales and percentage scales in Health workers

- supervision
- stigma
- social distancing
- satisfaction



**differences between sex, level of education, age**



**differences between case-management and control districts**

# Patients and carers (i)

- Descriptive analysis (& comparison over time) of *patients* at health facility level
  - sociodemographics: sex, age, wealth, education
  - disease
  - PHQ-9 and GAD-7
  - SARI Stigma

**correlations between PHQ, GAD and SARI**



# Patients and carers (ii)

- Descriptive analysis of *caregiver* information (& comparison over time)
  - sociodemographics: sex, age, wealth, education
  - burden of care (time, tasks, )
  - PHQ-9 and GAD-7
  - SARI Stigma



**correlations between PHQ, GAD and SARI**



# Patients and carers (iii)

- Comparison between Likert scales and percentage scales in patient and carers
  - PHQ-9
  - GAD-7
  - SARI Stigma

**differences between sex, level of education, age**

# Patients and carers (iv)

- Descriptive analysis of *patient* satisfaction (& comparison over time)  
**differences between sex, level of education, age**

# Health workers / finance

- Descriptive analysis (& comparison over time) of CHAs/CHVs time and expenses

**differences between districts or counties?**



# Patients and carers / finance (i)



- Descriptive analysis: How much people spend with NTDs out-of-pocket expenditure (& comparison over time)? (from patients' survey)
  - expenditure type (medication, transportation, faith healers, hospitalisation food)
- Descriptive analysis: How much people spend on faith healers (& comparison over time)? (from patients' survey)
  - expenditure type

# Patients and carers / finance (ii)

- Descriptive analysis: How much people spend with mental health expenditure (& comparison over time)? (from patients' survey)
  - expenditure type (medication, transportation, faith healers, hospitalisation food)

# Health finance

- Cost of interventions



- out-of-pocket costs (patients tool)
- estimation of time/cost (health worker tool)
- costs of interventions (MoH/ACT/REDRESS - documents and interviews): case management, lab<sup>mental</sup> health, training

## **Cost benefit analysis**



# Health finance

- Issues with procurement, corruption, information flow, bureaucracy

**Qualitative** (plan to be developed)