INFLUENCE OF PHARMACEUTICAL LMIS AS AN ENABLER OF UNIVERSAL HEALTH COVERAGE IMPLEMENTATION IN NYAMIRA COUNTY

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PROJECT SUMMARY

Background
- At least half of the world population cannot access health services.
- Kenya is currently piloting UHC launched as one of the big four Agenda.
- Drug supply management is an essential component of effective healthcare services globally.
- UHC success in Kenya requires a robust LMIS in the counties.

Objective
- To establish the influence of Selection support systems as an enabler of universal health coverage implementation.
- To establish the influence of Procurement support systems as an enabler of universal health coverage implementation.
- To establish the influence of Distribution Support systems as an enabler of universal health coverage implementation.
- To establish the influence of Utility support systems as an enabler of universal health coverage implementation.

SUMMARIZE MAIN QUESTIONS AND RESULTS HERE WITH FIGURES ETC

Research Questions
- How is Pharmaceutical Commodity Supply Chain Logistics currently organized in Nyamira County and what are the challenges?
- What is the design of a Logistics Management Information System (LMIS) that would address these challenges and facilitate the implementation of UHC in Nyamira County?

Universal Health Coverage Framework Questions
- Who should be covered?
- Which services are covered?
- Who is paying for the services?

Approaches
- Mixed Research design (qualitative and quantitative)
- Population – 12 Health facilities in Nyamira
- Sampling – purposive sampling was done, 74 respondents were sampled
- Data collection - Questionnaire
- Data analysis - SPSS, multiple regression model
  \[ Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \epsilon \]
  Where:
  \( Y \) = Universal health coverage implementation
  \( \beta_0 \) = Constant
- Term $1, 2, 3,$ and $4^*$ Regression coefficients of the independent variables for Selection support system, Procurement support system, Distribution support system and Utility support system respectively.

Results
- 74 questionnaires 68 responses (92% response rate)
- Overall reliability for all statistics for all items was 0.802
- There is linear relationship between the dependent and the independent variables
- 38% were in agreement that there is a logistics system
- 52% disagree on the presence of a county drug selection policy
- 69% disagree on the use of consumption data for forecasting
- 72% disagree that prescribing practices are monitored and compared with standard treatment guidelines

CONCEPTUAL FRAMEWORK

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SOFTWARE FEATURES

Procurement
- Ability to quantify using dispensing/consumption data
- Ability to add new facilities into the system
- Ability to add new drugs to the system both generics and branded products
- Ability to modify different strengths of the same drug
- Ability to give quantification history which is important in procurement planning
- The software is open source

CONCLUSIONS, CONTRIBUTIONS

- Pharmaceutical selection policies need to be adhered to.
- Under procurement, forecasting data should be based on drugs dispensed user data.
- There needs to be a policy on redistribution and inventory control.
- STGs need to be adhered to.