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Community Health Champions (CHC) Workflow Analysis:

Introduction

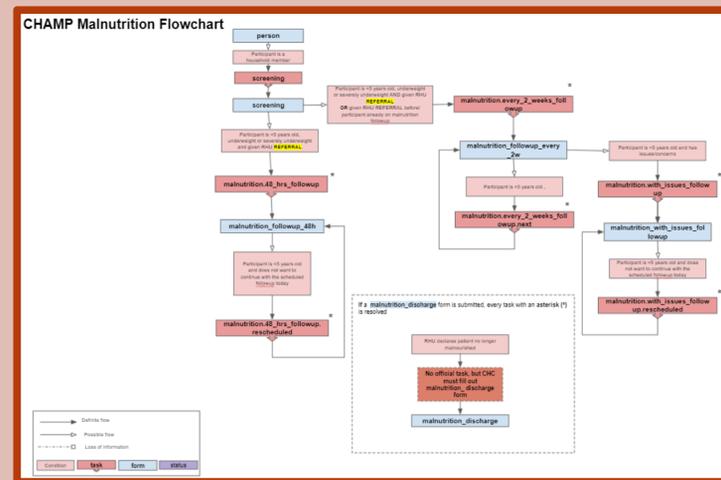
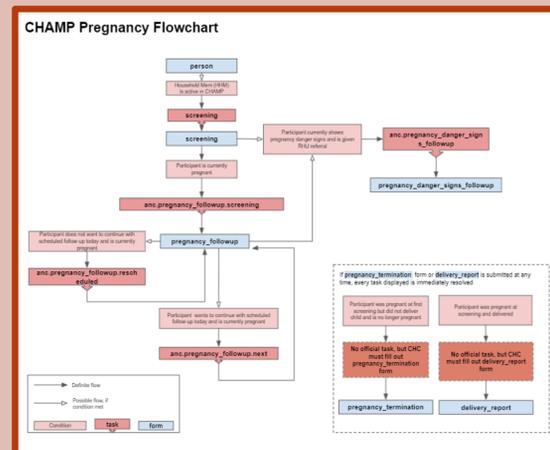
- CHC are trained community members who facilitate health interventions in areas like family planning, pregnancy, and malnutrition to build healthier families and reduce poverty
- CHC use a health app (CHAMP) to streamline interventions providing a point for data entry

Objective of Study

Create and analyze workflow of the CHAMP app to better understand and improve interventions and to provide references for Health, Research, and Tech teams

Methods: construct workflows for pregnancy and malnutrition pathways using app code and data collection forms, track areas where workflow might be improved, graph malnutrition data to determine optimal threshold for intervention

Results and Discussion



Workflows indicate self-sustaining cycles that allow for continuous follow-up in both interventions. Potential issues identified: lack of follow-up after danger issues in both pregnancy and malnutrition, unclear indication of a “successful” treatment in malnutrition; no direct link in the workflow to pregnancy termination, delivery report, and malnutrition discharge forms

Conclusion and Future Directions:

ICM teams were provided with a visual aid for CHC health topics, and issues and concerns were voiced to the data analysis team. Based on these workflows, future clarification is needed of the relationship between local health unit resolution of issues and CHC, indications of recovery for malnutrition, and links or prompts to discharge forms.

Family Academy

Introduction

Through FA, pastors and local teachers run community-based early education programs to improve school readiness

Objective of Study

Combine and analyze FA data from 2017-2019 to assess effectiveness of program and of testing protocol for determining student progress

Methods: Clean and bind assessment data from 2017 to 2019, analyze effect of FA program on children’s test scores and compare year to year

Results/ Discussion: All years and categories indicated an increase in test scores, except for two categories in 2017. On average, math scores increased by 298.8% and phonics scores by 269.7% . In addition, average change is greater in 2018 and 2019 than 2017, indicating that the program may be improving in effectiveness.

Conclusions and Future Directions:

Based on current analysis, FA is associated with an increase in the assessed math and phonics abilities of children. Based on the process of data wrangling, future work may be done in standardizing the way that test data is inputted for ease of access in the future. In addition, assessment of test consistency with Cronbach’s alpha or other means may be useful.

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