

Chase Africa

Preliminary Analysis

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1 Introduction

This material has been prepared for the introductory meeting between Chase Africa and the Institute of Population Ageing at the start of our collaboration funded by GCRF NGO Secondary Data Funding in the form of a Mini knowledge exchange fellowship.

It is based on a preliminary analysis of part of the data supplied by Chase Africa and aims to outline and demonstrate some of the possibilities that the data afford.

2 Data

Chase Africa has provided six Excel formatted datasets, one for each charity in Kenya or Uganda that they support:

- 2012-18 CHAT data summary CP.xlsx – 7 annual sheets + summary sheet
- 2014-18 Dandelion data summary & CYP CP.xlsx – 5 annual sheets + summary sheet
- 2014-18 MKT data summary & CYP CP.xlsx – 5 annual sheets + summary sheet
- Big Life data summary & CYP CP.xlsx – 2 annual sheets + summary sheet
- CHV data summary & CYP CP.xlsx – 3 annual sheets + summary sheet
- RICE WN Data summary & CYP CP.xlsx – 1 annual sheet + summary sheet

For the purposes of this demonstration only data from *Dandelion* is used for the years 2014-2018¹. The data has been cleaned and consolidated into a single data table. The original variables are listed in the appendix, as are the new, derived variables.

The data is made *tidy*:

- each variable forms a single column
- each observation forms a row: a date-venue combination

¹All the analysis was performed on all the clinic types i.e. standard and Amboseli as well as Amplify change.

All derived variables are derived anew, to avoid the possibility of errors inherent in Excel-style cell formulae, and additional variables are derived as well.

Finally summary statistics are calculated by year and by *funding period* to allow a less granular overview of the trends.

3 Analysis

4 Simple time series

Appendix

The variables fall into the following categories:

- **id** variables such as **date**, and **venue**
- **fund_** variables have been extracted from the single column in the excel files and include **fund_date**, **fund_round**, **fund_gbp**, **fund_ksh**, and **fund_category** that accounts for non-standard sources such as Amboseli or Amplify change.
- **fp_** variables are to do with family planning provision and are further split into **fp_lt_** and **fp_st_** for long and short term contraception.
- **ihc_** variables refer to integrated health care services
- **der_** are variables derived from the basic variables listed above (if they had already been calculated in the original excel files, they are still re-calculated).

var_name	source	description
ID		
date	original	Date of clinic
venue	original	Location of clinic
Family Planning - Long Term		
fp_lt_iucd	original	IUCD
fp_lt_5yr_1st	original	5 year implant, 1st
fp_lt_5yr_rep	original	5 year implant, repeat
fp_lt_3yr_1st	original	3 year implant, 1st
fp_lt_3yr_rep	original	3 year implant, repeat
Family Planning - Short Term		
fp_st_depo_1st	original	Depo injection, 1st
fp_st_depo_rep	original	Depo injection, repeat
fp_st_pills_6mth	original	Pills, 6 months
fp_st_pills_3mth	original	Pills, 3 months
fp_st_pills_1mth	original	Pills, 1 months
fp_st_pills_1st	original	Pills, 1 months, 1st
Family Planning - Ohter		
fp_condoms	original	Condoms
fp_under18	original	FP recipients under 18
fp_over18	original	FP recipients over 18
lt_iucd_remove	original	removal of IUCD
disabled_fp	original	FP recipients disabled
Integrated Health Care		
ihc_primary_hc	original	Primary health care provided
ihc_deworming	original	Deworming

ihs_immunization	original	Immunization
ihs_hiv_test	original	HIV/AIDS test
ihs_hiv_poz	original	HIV positive result
ihs_malaria_test	original	Malaria test
ihs_malaria_poz	original	Malaria positive result
ihs_cancer_test	original	Cancer screening
ihs_cancer_poz	original	Cancer positive result
ihs_hepB_test	original	Hepatitis B test
ihs_hepB_poz	original	Hepatitis B positive result
disabled_ihc	original	IHS recipients disabled

Funding Information

fund_round	original	Funding round
fund_date	original	Funding date
fund_gbp	original	Funds in GBP
fund_ksh	original	Funds in KSH
fund_category	original	Funding category

Numbers of recipients

der_fp_lt_total	derived	Recipients of long term contraceptives
der_fp_st_total	derived	Recipients of short term contraceptives
der_fp_total	derived	FP recipients in total
der_ihs_total	derived	IHS recipients total
der_total	derived	All recipients total

Couple Years of Protection

der_fp_lt_iucd_cyp	derived	CYPs from IUCDs
der_fp_lt_5yr_1st_cyp	derived	CYPs from 5 year implants, 1st
der_fp_lt_5yr_1rep_cyp	derived	CYPs from 5 year implants, rep
der_fp_lt_3yr_1st_cyp	derived	CYPs from 3 year implants, 1st
der_fp_lt_3yr_1rep_cyp	derived	CYPs from 3 year implants, rep
der_fp_st_depo_1st_cyp	derived	CYPs from Depo injections, 1st
der_fp_st_depo_1rep_cyp	derived	CYPs from Depo injections, rep
der_fp_st_pills_6mth_cyp	derived	CYPs from pills, 6 months
der_fp_st_pills_3mth_cyp	derived	CYPs from pills, 3 months
der_fp_st_pills_1mth_cyp	derived	CYPs from pills, 1 months
der_fp_st_pills_1st_cyp	derived	CYPs from pills, 1 months, 1st
der_fp_implants_tot_cyp	derived	CYPs from all implants
der_fp_depo_tot_cyp	derived	CYPs from all injections
der_fp_pills_tot_cyp	derived	CYPs from all pills
der_fp_lt_tot_cyp	derived	CYPs from all long term methods
der_fp_st_tot_cyp	derived	CYPs from all short term methods
der_fp_tot_cyp	derived	CYPs from all methods

Costs

der_gpb_per_person	derived	Cost per person in GBP
der_gpb_per_cyp	derived	Cost per CYP in GBP
der_ksh_per_person	derived	Cost per person in KSH
der_ksh_per_cyp	derived	Cost per CYP in KSH
