Study Design

Population Description and Data Exploration - Martenal Health

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theme\_gtsummary\_language("en", big.mark = "")  
options(scipen=999)

# Create a directory to hold the feather files  
dirs <-list.dirs(path = word(here(),1,sep='main\_tabs'),   
 recursive = TRUE,  
 full.names = TRUE)  
py\_path<-rdata\_files[grepl("py\_data",rdata\_files)]  
#py\_path<-file.path(word(here(),1,sep='main\_tabs'),"py\_data")  
dir.create(py\_path, showWarnings = FALSE)  
  
# Loop over each element and write it out  
# Make sure target folder exists  
  
for (nm in names(db\_ecrf)) {  
 obj <- db\_ecrf[[nm]]  
  
 if (!inherits(obj, "data.frame")) {  
 warning(sprintf("Skipping '%s' (class = %s)", nm, class(obj)[1]))  
 next  
 }  
  
 # write only the data.frames  
 write\_feather(  
 obj,  
 file.path(py\_path, paste0(nm, ".feather"))  
 )  
}  
#drive\_auth()

import os  
import pandas as pd

#data\_dir = py\_path  
my\_data = {}  
#   
# for fname in os.listdir(data\_dir):  
# if fname.endswith(".feather"):  
# key = os.path.splitext(fname)[0]  
# my\_data[key] = pd.read\_feather(os.path.join(data\_dir, fname))

# pyreadr.read\_r("db\_ecrf.rds")

# Initialize empty list to store results tables  
ls\_tbls=list()  
s=0;t=0;st=0

func\_store\_gt\_table <- function(  
 tbl = .,  
 title\_num = tbl\_TTLNUM,  
 title\_name = tbl\_TTLNAM,  
 subtitle\_num = tbl\_SUBTTLNUM,  
 subtitle\_name = tbl\_SUBTTLNAM,  
 levels\_total = TRUE  
 ) {  
 # build labels  
 title\_lbl <- paste0(title\_num, ": ", title\_name)  
 subtitle\_lbl <- paste0(subtitle\_num, ": ", subtitle\_name)  
  
 # wrap in gt and add header  
 gt\_tbl <- tbl |>   
 modify\_header(label = paste0("\*\*",ATTRIBUTES,"\*\*"))  
 if(levels\_total == TRUE) {  
 gt\_tbl <- gt\_tbl |>   
 modify\_header(all\_stat\_cols() ~ "\*\*{level}\*\* <br>N = {n} ({style\_percent(p)}%)") |>  
 as\_gt() |>  
 tab\_header(  
 title = title\_lbl,  
 subtitle = subtitle\_lbl  
 )  
 } else {  
 gt\_tbl <- gt\_tbl |>   
 modify\_header(all\_stat\_cols() ~ "\*\*{level}\*\*") |>   
 as\_gt() |>  
 tab\_header(  
 title = title\_lbl,  
 subtitle = subtitle\_lbl  
 )  
 }  
 # ensure global exists  
 if (!exists("ls\_tbls", envir = .GlobalEnv) || is.null(ls\_tbls)) {  
 ls\_tbls <<- list()  
 }  
  
 # create section if missing  
 if (!title\_lbl %in% names(ls\_tbls)) {  
 ls\_tbls[[title\_lbl]] <<- list()  
 }  
  
 # store under subtitle  
 ls\_tbls[[title\_lbl]][[subtitle\_lbl]] <<- gt\_tbl  
  
 # return the gt object  
 return(gt\_tbl)  
}

# Cohort of Mothers and Children

### Sub-Saharan Africa countries

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
tbl\_stack(list(  
 dt\_ |>  
 select(usubjid,country,Mother) |>  
 distinct() |>  
 tbl\_summary(  
 by=country,  
 percent = "row",  
 include = -c(usubjid))|>  
 bold\_labels() |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ),  
 dt\_ |>  
 tbl\_summary(  
 by=country,  
 include = -c(usubjid,sitenm,Mother),  
 digits = num\_vars ~ style\_number,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{sum}",  
 "{mean}",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "no",  
 percent = "row",  
 label = list(  
 Child ~ "Children",  
 PROMISE ~ "PROMISE Children",  
 PROMOTE ~ "PROMOTE Children",  
 `No-Child` ~ "No PROMOTE/PROMISE Child"  
 )  
 ) |>  
 bold\_labels() |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 )  
 )  
 ) |>  
 func\_store\_gt\_table(  
 levels\_total = FALSE  
 )

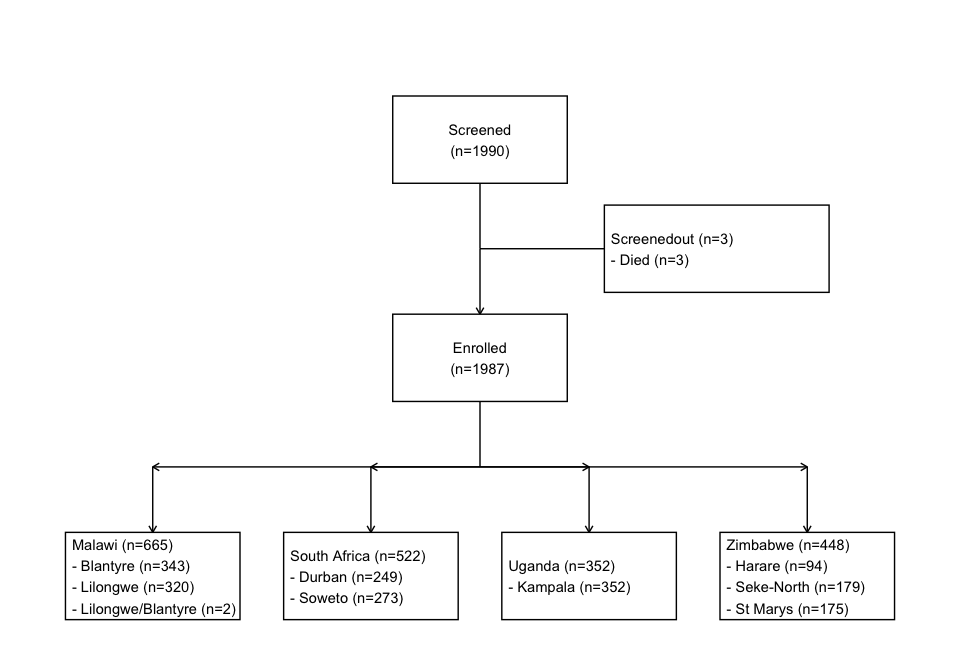
Table 1: 1.1: Cohort of Mothers and Children

Table 1.1.1: Distribution of Mothers and Children within and across Sub-Saharan Africa countries

| **Population Group** | **South Africa***1* | **Uganda***1* | **Malawi***1* | **Zimbabwe***1* | **Overall***1* |
| --- | --- | --- | --- | --- | --- |
| **Mother** | 522 (26%) | 352 (18%) | 665 (33%) | 448 (23%) | 1987 (100%) |
| **Children** |  |  |  |  |  |
| Sum | 555 | 485 | 935 | 665 | 2640 |
| Mean | 1 | 1 | 1 | 1 | 1 |
| Median (Q1, Q3) | 1 (1, 1) | 1 (1, 2) | 1 (1, 2) | 1 (1, 2) | 1 (1, 2) |
| Min, Max | 0, 3 | 0, 4 | 0, 4 | 0, 4 | 0, 4 |
| **PROMISE Children** | 443 (25%) | 306 (17%) | 595 (34%) | 421 (24%) | 1765 (100%) |
| **PROMOTE Children** | 104 (14%) | 148 (20%) | 290 (39%) | 209 (28%) | 751 (100%) |
| **No PROMOTE/PROMISE Child** | 67 (42%) | 31 (19%) | 47 (29%) | 15 (9.4%) | 160 (100%) |
| *1*n (%) | | | | | |

cntsite<-db\_ecrf[["CNTRYST"]]  
names\_order<-c(  
 c("Screened","Enrolled","Screened out"),  
 cntsite |> arrange(country) |> pull(country) |> unique() |> as.character(),  
 cntsite |> arrange(sitenm) |> pull(sitenm) |> unique() |> as.character(),  
 c(1:10)  
)  
db\_tbl<-"OBS"  
dt\_.<-db\_ecrf[["CHDMTH"]] |> filter(  
 Mother%in%db\_ecrf[[db\_tbl]]$usubjid  
 |Child%in%db\_ecrf[[db\_tbl]]$usubjid  
) |>  
 left\_join(db\_ecrf[["REFDT"]] |>  
 select(Mother=usubjid,mrfstdt=rfstdt)  
 ) |>  
 mutate(  
 chldstdy=ifelse(birthdt>=mrfstdt,"PROMOTE",chldstdy),  
 chldstdy=ifelse(is.na(chldstdy),"No-Child",chldstdy),  
 chldstdy=factor(chldstdy,levels=c("PROMISE",  
 "PROMOTE",  
 "No-Child")  
 ),  
 usubjid=Mother,  
 cusubjid=Child,  
 child\_value=as.logical(ifelse(is.na(chldstdy),NA,1))  
 )   
  
dt\_..<-dt\_. |>   
 mutate(.by = usubjid,  
 screened='Screened',  
 screenedout\_reason=ifelse(nchar(usubjid)==1,str\_to\_title(word(comment,-1,2,sep=" ")),NA),  
 enrolled=ifelse(nchar(usubjid)>1,1,NA),  
 country=ifelse(enrolled==1,paste(unique(country),collapse = "/"),NA),  
 study\_site=ifelse(enrolled==1,paste(unique(site),collapse = "/"),NA),  
 promise\_child = sum(ifelse(enrolled==1 & chldstdy=="PROMISE",1,NA),na.rm = TRUE),  
 promote\_child = sum(ifelse(enrolled==1 & grepl("PROMOTE",chldstdy),1,NA),na.rm = TRUE),  
 no\_promote\_child = sum(ifelse(enrolled==1 & is.na(chldstdy),1,NA),na.rm = TRUE)  
 ) |>   
 select(usubjid,screened,enrolled,  
 country,study\_site,  
 promise\_child,promote\_child,no\_promote\_child,screenedout\_reason) |>   
 distinct() |>   
 left\_join(  
 db\_ecrf[["VIT"]] |>   
 filter(pregnancy\_test=="positive") |>   
 mutate(.by = usubjid,  
 pregnancies=sum(ifelse(pregnancy\_test=='positive',1,NA),na.rm = TRUE)  
 ) |>   
 select(usubjid,pregnancies) |>   
 distinct()  
 ) |>   
 left\_join(  
 db\_ecrf[["LDR"]] |>   
 filter(!is.na(pregnancy\_outcome)) |>  
 select(usubjid,visitnum,pregnancy\_outcome) |>   
 mutate(result=1) |>   
 spread(pregnancy\_outcome,result) |>   
 select(-visitnum) |>   
 mutate(.by = usubjid,  
 across(  
 any\_of( db\_ecrf[["LDR"]] |>   
 filter(!is.na(pregnancy\_outcome)) |>   
 pull(pregnancy\_outcome) |> unique()  
 ),  
 ~sum(.x,na.rm = TRUE)  
 )  
 ) |>   
 distinct()  
 )  
   
keys\_1<-c('screened','enrolled')  
dt.mains<-dt\_.. |> select(any\_of(keys\_1)) |>   
 gather() |>   
 filter(!is.na(value)) |>   
 mutate(key=factor(key,levels = keys\_1)) |>   
 group\_by(key) |>   
 count(.by=key) |>   
 ungroup() |>   
 mutate(ymid=abs(row\_number()-(max(row\_number())+1))\*5,  
 value=paste0(str\_to\_title(key),'\n',  
 '(n=',n,')'  
 ),  
 xmid=0,  
 xmin=xmid-2,xmax=xmid+2,  
 ymin = ymid-1,ymax = ymid+1  
 )  
keys\_3<-c('country','study\_site')  
dt.key3<-  
 dt\_.. |> select(any\_of(keys\_3[1])) |>   
 gather() |>  
 filter(!is.na(value)) |>   
 select(value) |>   
 rename\_all(toupper) |>   
 gather(key,value) |>   
 filter(!is.na(value)) |>   
 #mutate(value=factor(value,levels = unique(c(keys\_3[1],value)))) |>   
 group\_by(key=value) |>   
 count() |>   
 ungroup() |>   
 distinct() |>   
 mutate(ymid=0,  
 xmid=(row\_number()-median(row\_number()))\*5,  
 xmin=xmid-2,xmax=xmid+2,  
 ymin = ymid-1,ymax = ymid+1  
 ) |>   
 left\_join(  
 dt\_.. |> select(any\_of(keys\_3)) |>   
 gather(key,value,any\_of(keys\_3[2])) |>  
 filter(!is.na(value)) |>   
 select(-key) |>   
 #rename\_all(toupper) |>   
 #gather(key,value) |>   
 filter(!is.na(value)) |>   
 #mutate(value=factor(value,levels = unique(c(keys\_3[2],value)))) |>   
 group\_by(country, value) |>   
 count() |>   
 ungroup() |>   
 distinct() |>   
 rename(key=country) |>   
 group\_by(key) |>   
 mutate(  
 value=paste0("\n- " ,paste(paste0(str\_to\_title(value),'',' (n=',n,')'),collapse = "\n- "))  
 ) |>   
 ungroup() |>   
 select(-n) |>   
 distinct(),  
 by='key'  
 ) |>   
 group\_by(key) |>   
 mutate(  
 value=paste(  
 paste0(str\_to\_title(key),'',' (n=',n,')'),  
 unique(value),collapse = "\n- "),  
   
 )  
keys\_2<-c('screenedout\_reason')  
dt.keys2<-dt\_.. |> select(any\_of(keys\_2)) |>   
 gather() |>   
 filter(!is.na(value)) |>   
 rename\_all(toupper) |>   
 gather(key,value) |>   
 filter(!is.na(value)) |>   
 mutate(value=factor(value,levels = unique(c(keys\_2,value)))) |>   
 group\_by(value) |>   
 count() |>   
 ungroup() |>   
 mutate(value=paste(paste0(str\_to\_title(word(gsub('\_',' ',value),1,sep=" ")),'',  
 ' (n=',n,')'),collapse="\n- ")) |>   
 distinct() |>   
 mutate(ymid=7.5,  
 xmid=3,  
 xmin=xmid-0.15,xmax=xmid+5,  
 ymin = ymid-1,ymax = ymid+1  
 )

dt.mains |>   
 ggplot()+  
 geom\_segment(  
 data=dt.keys2,  
 aes(  
 x=xmin,xend=0,y=ymid,yend=ymid)  
 )+  
 geom\_segment(  
 data=dt.keys2,  
 aes(  
 x=0,xend=0,y=ymid,yend=ymid-1.5),  
 arrow = arrow(length = unit(0.2, "cm"))  
 )+  
 geom\_segment(  
 data=dt.key3,  
 aes(  
 x=xmid,xend=xmid,y=ymax+1.5,yend=ymax),  
 arrow = arrow(length = unit(0.2, "cm"))  
 )+  
 geom\_segment(  
 data=dt.key3,  
 aes(  
 x=0,xend=xmid,y=ymax+1.5,yend=ymax+1.5  
 ),  
 arrow = arrow(length = unit(0.2, "cm"))  
 )+  
 geom\_segment(  
 data=dt.mains,  
 aes(  
 x=xmid,xend=xmid,y=ymin,yend=ymin-1.5)  
 ) +  
 geom\_rect(  
 data=dt.mains,aes(xmin = xmin, ymin = ymin, xmax = xmax, ymax = ymax),  
 fill="white",color="black")+  
 geom\_rect(  
 data=dt.keys2,aes(xmin = xmin, ymin = ymin, xmax = xmax, ymax = ymax),  
 fill="white",color="black")+  
 geom\_rect(  
 data=dt.key3,aes(xmin = xmin, ymin = ymin, xmax = xmax, ymax = ymax),  
 fill="white",color="black")+  
   
 geom\_text(  
 data=dt.mains,  
 aes(x=xmid,y=ymid,label = value)  
   
 )+  
 geom\_text(  
 data=dt.key3,  
 aes(x=xmid-1.85,y=ymid,label = value),hjust=0  
   
 )+  
 geom\_text(  
 data=dt.keys2,  
 aes(x=xmid,y=ymid,label = value),hjust=0  
   
 )+  
   
 scale\_y\_continuous(limits = c(-1,12))+  
 scale\_x\_continuous(limits = c(-10,10))+  
 theme\_void()+  
 coord\_fixed()



### Sub-Saharan Africa Sites

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
  
dt\_ |>  
 tbl\_summary(  
 by=sitenm,  
 include = -c(usubjid,country,Mother),  
 digits = num\_vars ~ style\_sigfig,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{sum}",  
 "{mean}",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "no",  
 percent = "row",  
 label = list(  
 Child ~ "Children",  
 PROMISE ~ "PROMISE Children",  
 PROMOTE ~ "PROMOTE Children",  
 `No-Child` ~ "No PROMOTE/PROMISE Child"  
 )  
 ) |>  
 bold\_labels() |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ) |>  
 func\_store\_gt\_table(  
 levels\_total = FALSE)

Table 1: 2.2: Cohort of Mothers and Children

Table 2.2.2: Distribution of Mothers and Children within and across Sub-Saharan Africa Sites

| **Population Group** | **Durban***1* | **Soweto***1* | **Kampala***1* | **Blantyre***1* | **Lilongwe***1* | **Harare***1* | **Seke-North***1* | **St Marys***1* | **Overall***1* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Children** |  |  |  |  |  |  |  |  |  |
| Sum | 241 | 314 | 485 | 500 | 435 | 146 | 256 | 263 | 2640 |
| Mean | 0.97 | 1.2 | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | 1.5 | 1.3 |
| Median (Q1, Q3) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) |
| Min, Max | 0.00, 2.0 | 0.00, 3.0 | 0.00, 4.0 | 0.00, 4.0 | 0.00, 3.0 | 0.00, 3.0 | 0.00, 3.0 | 0.00, 4.0 | 0.00, 4.0 |
| **PROMISE Children** | 204 (12%) | 239 (14%) | 306 (17%) | 310 (18%) | 285 (16%) | 91 (5.2%) | 169 (9.6%) | 161 (9.1%) | 1765 (100%) |
| **PROMOTE Children** | 37 (4.9%) | 67 (8.9%) | 148 (20%) | 160 (21%) | 130 (17%) | 46 (6.1%) | 78 (10%) | 85 (11%) | 751 (100%) |
| **No PROMOTE/PROMISE Child** | 41 (26%) | 26 (16%) | 31 (19%) | 22 (14%) | 25 (16%) | 2 (1.3%) | 6 (3.8%) | 7 (4.4%) | 160 (100%) |
| *1*n (%) | | | | | | | | | |

## Baseline Characteristics

### Socio-Demographics Characteristics

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
  
dt\_ |>  
 tbl\_summary(  
 by=country,  
 digits = num\_vars ~ style\_sigfig,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{N\_nonmiss}",  
 "{mean} ({sd})",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "ifany",  
 missing\_text = "Missing/Not Applicable"  
 ) |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ) |>  
 bold\_labels() |>  
 func\_store\_gt\_table()

Table 1: 3.3: Baseline Characteristics of Women Sub-Saharan Africa countries

Table 3.3.3: Baseline Socio-Demographics Characteristics

| **Socio-Demographics** | **South Africa** N = 522 (26%)*1* | **Uganda** N = 352 (18%)*1* | **Malawi** N = 665 (33%)*1* | **Zimbabwe** N = 448 (23%)*1* | **Overall** N = 1987 (100%)*1* |
| --- | --- | --- | --- | --- | --- |
| **Age** |  |  |  |  |  |
| N Non-missing | 522 | 352 | 665 | 448 | 1987 |
| Mean (SD) | 32 (5.5) | 31 (5.4) | 31 (5.1) | 32 (5.4) | 31 (5.4) |
| Median (Q1, Q3) | 31 (27, 35) | 30 (27, 34) | 31 (27, 34) | 32 (28, 36) | 31 (27, 35) |
| Min, Max | 21, 49 | 21, 52 | 20, 46 | 21, 48 | 20, 52 |
| **Marital status** |  |  |  |  |  |
| Divorced | 0 (0%) | 0 (0%) | 49 (7.4%) | 10 (2.2%) | 59 (3.0%) |
| Married | 52 (10.0%) | 153 (43%) | 511 (77%) | 345 (77%) | 1061 (53%) |
| No regular partner | 103 (20%) | 36 (10%) | 7 (1.1%) | 14 (3.1%) | 160 (8.1%) |
| Primary regular partner | 363 (70%) | 115 (33%) | 20 (3.0%) | 31 (6.9%) | 529 (27%) |
| Seperated | 2 (0.4%) | 40 (11%) | 37 (5.6%) | 20 (4.5%) | 99 (5.0%) |
| Widowed | 2 (0.4%) | 8 (2.3%) | 41 (6.2%) | 28 (6.3%) | 79 (4.0%) |
| **Partner stay with you** |  |  |  |  |  |
| No | 214 (52%) | 10 (3.7%) | 13 (2.4%) | 13 (3.5%) | 250 (16%) |
| Yes all the time | 162 (39%) | 170 (63%) | 389 (73%) | 276 (73%) | 997 (63%) |
| Yes from time to time | 39 (9.4%) | 88 (33%) | 129 (24%) | 87 (23%) | 343 (22%) |
| Missing/Not Applicable | 107 | 84 | 134 | 72 | 397 |
| **Does your partner work** |  |  |  |  |  |
| Don't know | 3 (0.7%) | 1 (0.4%) | 2 (0.4%) | 0 (0%) | 6 (0.4%) |
| No | 57 (14%) | 4 (1.5%) | 14 (2.6%) | 27 (7.2%) | 102 (6.4%) |
| Yes Formal employment | 280 (67%) | 112 (42%) | 297 (56%) | 158 (42%) | 847 (53%) |
| Yes Self employed | 75 (18%) | 151 (56%) | 218 (41%) | 191 (51%) | 635 (40%) |
| Missing/Not Applicable | 107 | 84 | 134 | 72 | 397 |
| **Did you tell partner your hiv status** | 329 (79%) | 164 (61%) | 511 (96%) | 363 (97%) | 1367 (86%) |
| Missing/Not Applicable | 107 | 84 | 134 | 72 | 397 |
| **Know if partner tested for hiv** |  |  |  |  |  |
| Don't know | 34 (8.2%) | 90 (34%) | 12 (2.3%) | 9 (2.4%) | 145 (9.1%) |
| No | 101 (24%) | 23 (8.6%) | 103 (19%) | 62 (16%) | 289 (18%) |
| Yes | 280 (67%) | 155 (58%) | 416 (78%) | 305 (81%) | 1156 (73%) |
| Missing/Not Applicable | 107 | 84 | 134 | 72 | 397 |
| **Know partner hiv status** | 271 (97%) | 151 (97%) | 397 (95%) | 300 (98%) | 1119 (97%) |
| Missing/Not Applicable | 242 | 197 | 249 | 143 | 831 |
| **What is your partner hiv status** |  |  |  |  |  |
| Negative | 90 (33%) | 58 (38%) | 91 (23%) | 62 (21%) | 301 (27%) |
| Positive | 181 (67%) | 93 (62%) | 306 (77%) | 238 (79%) | 818 (73%) |
| Missing/Not Applicable | 251 | 201 | 268 | 148 | 868 |
| **If positive, is he on arv treatment** |  |  |  |  |  |
| Don't know | 2 (1.1%) | 3 (3.2%) | 2 (0.7%) | 3 (1.3%) | 10 (1.2%) |
| No | 33 (18%) | 5 (5.3%) | 45 (15%) | 37 (16%) | 120 (15%) |
| Yes | 147 (81%) | 86 (91%) | 259 (85%) | 198 (83%) | 690 (84%) |
| Missing/Not Applicable | 340 | 258 | 359 | 210 | 1167 |
| **Your highest level of education** |  |  |  |  |  |
| College/University | 62 (12%) | 31 (8.8%) | 20 (3.0%) | 7 (1.6%) | 120 (6.0%) |
| No schooling | 2 (0.4%) | 16 (4.5%) | 57 (8.6%) | 0 (0%) | 75 (3.8%) |
| Primary-completed | 5 (1.0%) | 37 (11%) | 85 (13%) | 31 (6.9%) | 158 (8.0%) |
| Primary-partially completed | 7 (1.3%) | 102 (29%) | 219 (33%) | 23 (5.1%) | 351 (18%) |
| Secondary completed | 221 (42%) | 24 (6.8%) | 108 (16%) | 258 (58%) | 611 (31%) |
| Secondary-partially completed | 225 (43%) | 142 (40%) | 176 (26%) | 129 (29%) | 672 (34%) |
| **How well are you able to read** |  |  |  |  |  |
| A little | 85 (16%) | 71 (20%) | 124 (19%) | 44 (9.8%) | 324 (16%) |
| Not at all | 3 (0.6%) | 26 (7.4%) | 106 (16%) | 5 (1.1%) | 140 (7.0%) |
| Quite well/very well | 434 (83%) | 255 (72%) | 435 (65%) | 399 (89%) | 1523 (77%) |
| **Comfortable signing your name** |  |  |  |  |  |
| A little | 78 (15%) | 46 (13%) | 108 (16%) | 25 (5.6%) | 257 (13%) |
| Not at all | 2 (0.4%) | 22 (6.3%) | 109 (16%) | 1 (0.2%) | 134 (6.7%) |
| Quite comfortable/very comfortable | 442 (85%) | 284 (81%) | 448 (67%) | 422 (94%) | 1596 (80%) |
| **Do you work** |  |  |  |  |  |
| Formal employment | 222 (43%) | 71 (20%) | 97 (15%) | 48 (11%) | 438 (22%) |
| Not employed/housewife | 276 (53%) | 100 (28%) | 322 (48%) | 224 (50%) | 922 (46%) |
| Self employment(small business) | 22 (4.2%) | 181 (51%) | 246 (37%) | 176 (39%) | 625 (31%) |
| Missing/Not Applicable | 2 | 0 | 0 | 0 | 2 |
| **Number of rooms house has** |  |  |  |  |  |
| N Non-missing | 522 | 352 | 665 | 448 | 1987 |
| Mean (SD) | 3.8 (2.3) | 2.1 (1.6) | 2.9 (1.5) | 2.5 (1.8) | 2.9 (1.9) |
| Median (Q1, Q3) | 4.0 (2.0, 5.0) | 2.0 (1.0, 3.0) | 3.0 (2.0, 4.0) | 2.0 (1.0, 3.0) | 3.0 (2.0, 4.0) |
| Min, Max | 1.0, 16 | 1.0, 14 | 1.0, 11 | 1.0, 22 | 1.0, 22 |
| **You own or family owns house** | 397 (76%) | 129 (37%) | 297 (45%) | 178 (40%) | 1001 (50%) |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **How many people sleep in your room** |  |  |  |  |  |
| N Non-missing | 522 | 352 | 664 | 448 | 1986 |
| Mean (SD) | 2.9 (1.3) | 3.3 (1.3) | 2.9 (0.79) | 2.8 (0.90) | 2.9 (1.1) |
| Median (Q1, Q3) | 3.0 (2.0, 3.0) | 3.0 (2.0, 4.0) | 3.0 (2.0, 3.0) | 3.0 (2.0, 3.0) | 3.0 (2.0, 3.0) |
| Min, Max | 1.0, 13 | 1.0, 9.0 | 1.0, 7.0 | 1.0, 6.0 | 1.0, 13 |
| Missing/Not Applicable | 0 | 0 | 1 | 0 | 1 |
| **Electricity in the premises** | 507 (97%) | 275 (78%) | 281 (42%) | 290 (65%) | 1353 (68%) |
| **Tap water in the premises** | 497 (95%) | 149 (42%) | 380 (57%) | 276 (62%) | 1302 (66%) |
| **Source of water if no tap water** |  |  |  |  |  |
| Borehole | 15 (60%) | 27 (13%) | 131 (46%) | 59 (34%) | 232 (34%) |
| Other | 2 (8.0%) | 94 (46%) | 102 (36%) | 1 (0.6%) | 199 (29%) |
| Protected well | 0 (0%) | 68 (33%) | 37 (13%) | 106 (62%) | 211 (31%) |
| River | 8 (32%) | 8 (3.9%) | 1 (0.4%) | 0 (0%) | 17 (2.5%) |
| Unprotected well | 0 (0%) | 6 (3.0%) | 14 (4.9%) | 6 (3.5%) | 26 (3.8%) |
| Missing/Not Applicable | 497 | 149 | 380 | 276 | 1302 |
| **Fuel used to cook** |  |  |  |  |  |
| Charcoal | 2 (0.4%) | 308 (88%) | 519 (78%) | 0 (0%) | 829 (42%) |
| Electricity | 487 (93%) | 1 (0.3%) | 23 (3.5%) | 202 (45%) | 713 (36%) |
| Gas | 13 (2.5%) | 1 (0.3%) | 1 (0.2%) | 149 (33%) | 164 (8.3%) |
| Other | 0 (0%) | 0 (0%) | 1 (0.2%) | 0 (0%) | 1 (<0.1%) |
| Paraffin | 15 (2.9%) | 3 (0.9%) | 1 (0.2%) | 62 (14%) | 81 (4.1%) |
| Wood | 5 (1.0%) | 39 (11%) | 120 (18%) | 35 (7.8%) | 199 (10%) |
| **What kind of toilet do you have** |  |  |  |  |  |
| No toilet (open defecation) | 0 (0%) | 3 (0.9%) | 3 (0.5%) | 2 (0.4%) | 8 (0.4%) |
| Other | 1 (0.2%) | 0 (0%) | 0 (0%) | 11 (2.5%) | 12 (0.6%) |
| Pit latrine | 100 (19%) | 309 (88%) | 626 (94%) | 74 (17%) | 1109 (56%) |
| Private flush toilet for your family only | 272 (52%) | 9 (2.6%) | 26 (3.9%) | 121 (27%) | 428 (22%) |
| Shared flush toilet facility | 149 (29%) | 31 (8.8%) | 10 (1.5%) | 240 (54%) | 430 (22%) |
| **Number of adults sharing toilet** |  |  |  |  |  |
| N Non-missing | 149 | 31 | 10 | 240 | 430 |
| Mean (SD) | 12 (13) | 11 (12) | 8.1 (5.0) | 8.5 (15) | 9.7 (14) |
| Median (Q1, Q3) | 8.0 (5.0, 12) | 7.0 (4.0, 10) | 6.5 (5.0, 12) | 5.0 (4.0, 7.0) | 6.0 (4.0, 10) |
| Min, Max | 2.0, 99 | 2.0, 50 | 1.0, 16 | 2.0, 99 | 1.0, 99 |
| Missing/Not Applicable | 373 | 321 | 655 | 208 | 1557 |
| **Travel time from home to clinic** |  |  |  |  |  |
| 1-2 hours | 63 (12%) | 136 (39%) | 202 (30%) | 58 (13%) | 459 (23%) |
| 30-60 minutes | 254 (49%) | 129 (37%) | 346 (52%) | 158 (35%) | 887 (45%) |
| Greater than 2 hours | 11 (2.1%) | 68 (19%) | 51 (7.7%) | 14 (3.1%) | 144 (7.3%) |
| Less than 30 minutes | 194 (37%) | 19 (5.4%) | 65 (9.8%) | 218 (49%) | 496 (25%) |
| Missing/Not Applicable | 0 | 0 | 1 | 0 | 1 |
| *1*n (%) | | | | | |

### Sexual and Reproductive Health Characteristics

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
  
dt\_ |>  
 tbl\_summary(  
 by=country,  
 digits = num\_vars ~ style\_sigfig,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{N\_nonmiss}",  
 "{mean} ({sd})",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "ifany",  
 missing\_text = "Missing/Not Applicable"  
 ) |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ) |>  
 bold\_labels() |>  
 func\_store\_gt\_table()

Table 1: 4.4: Baseline Characteristics of Women Sub-Saharan Africa countries

Table 4.4.4: Baseline Sexual and Reproductive Health Characteristics

| **Sexual and Reproductive Health** | **South Africa** N = 522 (26%)*1* | **Uganda** N = 352 (18%)*1* | **Malawi** N = 665 (33%)*1* | **Zimbabwe** N = 448 (23%)*1* | **Overall** N = 1987 (100%)*1* |
| --- | --- | --- | --- | --- | --- |
| **Sexual partners in your lifetime** |  |  |  |  |  |
| N Non-missing | 519 | 333 | 663 | 445 | 1960 |
| Mean (SD) | 4.0 (3.5) | 3.3 (1.8) | 2.4 (1.4) | 2.1 (1.6) | 2.9 (2.4) |
| Median (Q1, Q3) | 3.0 (3.0, 5.0) | 3.0 (2.0, 4.0) | 2.0 (1.0, 3.0) | 2.0 (1.0, 2.0) | 2.0 (2.0, 3.0) |
| Min, Max | 1.0, 60 | 1.0, 15 | 1.0, 15 | 1.0, 15 | 1.0, 60 |
| Missing/Not Applicable | 3 | 19 | 2 | 3 | 27 |
| **Cannot recall number sexual partners** | 5 (1.0%) | 20 (5.7%) | 6 (0.9%) | 5 (1.1%) | 36 (1.8%) |
| **Did you have sex in the last 3 months** | 370 (71%) | 257 (73%) | 476 (72%) | 362 (81%) | 1465 (74%) |
| **Number sex partners last 3 months** |  |  |  |  |  |
| N Non-missing | 370 | 257 | 476 | 362 | 1465 |
| Mean (SD) | 1.0 (0.12) | 1.0 (0.11) | 1.0 (0.00) | 1.0 (0.13) | 1.0 (0.10) |
| Median (Q1, Q3) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) |
| Min, Max | 1.0, 2.0 | 1.0, 2.0 | 1.0, 1.0 | 1.0, 3.0 | 1.0, 3.0 |
| Missing/Not Applicable | 152 | 95 | 189 | 86 | 522 |
| **Average sex days per month** |  |  |  |  |  |
| N Non-missing | 369 | 257 | 475 | 362 | 1463 |
| Mean (SD) | 2.7 (3.0) | 5.0 (4.7) | 3.8 (3.9) | 4.8 (5.2) | 4.0 (4.3) |
| Median (Q1, Q3) | 2.0 (1.0, 3.0) | 3.0 (2.0, 6.0) | 2.0 (1.0, 4.0) | 3.0 (2.0, 5.0) | 2.0 (1.0, 4.0) |
| Min, Max | 0.00, 26 | 1.0, 23 | 1.0, 30 | 0.00, 30 | 0.00, 30 |
| Missing/Not Applicable | 153 | 95 | 190 | 86 | 524 |
| **How often did you use condoms** |  |  |  |  |  |
| Always | 175 (47%) | 33 (13%) | 129 (27%) | 234 (65%) | 571 (39%) |
| Never | 39 (11%) | 158 (61%) | 96 (20%) | 20 (5.5%) | 313 (21%) |
| Sometimes | 156 (42%) | 66 (26%) | 251 (53%) | 108 (30%) | 581 (40%) |
| Missing/Not Applicable | 152 | 95 | 189 | 86 | 522 |
| **Did you use family planning methods** | 351 (88%) | 191 (61%) | 447 (82%) | 308 (87%) | 1297 (80%) |
| Missing/Not Applicable | 121 | 37 | 120 | 94 | 372 |
| **Currently pregnant** | 17 (3.3%) | 33 (9.4%) | 43 (6.5%) | 29 (6.5%) | 122 (6.1%) |
| Missing/Not Applicable | 0 | 1 | 0 | 0 | 1 |
| **Family planning-oral contraceptive** | 23 (4.4%) | 22 (6.3%) | 7 (1.1%) | 137 (31%) | 189 (9.5%) |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Family planning-injectable** | 210 (40%) | 77 (22%) | 197 (30%) | 66 (15%) | 550 (28%) |
| **Family planning-implant** | 26 (5.0%) | 24 (6.8%) | 85 (13%) | 62 (14%) | 197 (9.9%) |
| **Family planning-iucd** | 5 (1.0%) | 6 (1.7%) | 6 (0.9%) | 5 (1.1%) | 22 (1.1%) |
| **Family planning-condoms** | 228 (44%) | 86 (24%) | 261 (39%) | 259 (58%) | 834 (42%) |
| **Family planning-tubal ligation** | 32 (6.1%) | 6 (1.7%) | 51 (7.7%) | 1 (0.2%) | 90 (4.5%) |
| **Family planning-hysterectomy** | 3 (0.6%) | 0 (0%) | 4 (0.6%) | 0 (0%) | 7 (0.4%) |
| **Family planning-spermicide** |  |  |  |  |  |
| No | 522 (100%) | 352 (100%) | 665 (100%) | 448 (100%) | 1987 (100%) |
| **Family planning-other contraceptive** | 0 (0%) | 2 (0.6%) | 5 (0.8%) | 1 (0.2%) | 8 (0.4%) |
| **Partner has other sexual relations** |  |  |  |  |  |
| Don't know | 173 (42%) | 153 (48%) | 279 (48%) | 172 (45%) | 777 (46%) |
| No | 135 (33%) | 49 (15%) | 180 (31%) | 62 (16%) | 426 (25%) |
| Yes | 104 (25%) | 118 (37%) | 124 (21%) | 146 (38%) | 492 (29%) |
| Missing/Not Applicable | 110 | 32 | 82 | 68 | 292 |
| **In the last 3 months-syphilis** | 1 (0.2%) | 1 (0.3%) | 4 (0.6%) | 1 (0.2%) | 7 (0.4%) |
| **In the last 3 months-genital ulcer** | 2 (0.4%) | 9 (2.6%) | 6 (0.9%) | 3 (0.7%) | 20 (1.0%) |
| **In the last 3 months-genital herpes** | 2 (0.4%) | 1 (0.3%) | 3 (0.5%) | 5 (1.1%) | 11 (0.6%) |
| **Last 3 months-abnormal vag discharge** | 35 (6.7%) | 41 (12%) | 9 (1.4%) | 13 (2.9%) | 98 (4.9%) |
| **In the last 3 months-other sti** | 7 (1.3%) | 2 (0.6%) | 13 (2.0%) | 2 (0.4%) | 24 (1.2%) |
| **Date last menses started** |  |  |  |  |  |
| N Non-missing | 403 | 208 | 593 | 360 | 1564 |
| Mean (SD) | 2016-07-28 (429.604083006375) | 2017-03-27 (113.338404044214) | 2016-11-28 (313.115885325585) | 2016-11-22 (255.010602200384) | 2016-11-11 (326.684398809825) |
| Median (Q1, Q3) | 2017-01-24 (2016-09-18, 2017-03-04) | 2017-04-05 (NA, 2017-05-01) | 2017-02-16 (2016-12-08, 2017-04-02) | 2017-01-25 (2017-01-04, NA) | 2017-02-12 (2016-12-26, NA) |
| Min, Max | 2011-05-08, 2017-08-11 | 2013-01-20, 2017-05-25 | 2006-04-27, 2017-12-28 | 2011-04-20, 2017-05-16 | 2006-04-27, 2017-12-28 |
| Missing/Not Applicable | 119 | 144 | 72 | 88 | 423 |
| **Last 3 months-regular menses** | 257 (49%) | 210 (60%) | 376 (57%) | 284 (63%) | 1127 (57%) |
| **Last 3 months-bleed inbetween cycles** | 56 (12%) | 17 (7.8%) | 29 (4.7%) | 29 (7.6%) | 131 (7.9%) |
| Missing/Not Applicable | 69 | 134 | 51 | 68 | 322 |
| **Last 3 months-screen cancer cervix** | 38 (7.3%) | 24 (6.8%) | 49 (7.4%) | 20 (4.5%) | 131 (6.6%) |
| **Unknown date of last menses** | 48 (9.2%) | 43 (12%) | 12 (1.8%) | 3 (0.7%) | 106 (5.3%) |
| **Did partner change since index child** | 55 (30%) | 83 (25%) | 53 (19%) | 18 (14%) | 209 (22%) |
| Missing/Not Applicable | 336 | 21 | 384 | 317 | 1058 |
| **How many times did partner change** |  |  |  |  |  |
| N Non-missing | 55 | 83 | 55 | 18 | 211 |
| Mean (SD) | 1.2 (0.61) | 1.1 (0.59) | 1.1 (0.39) | 1.3 (0.69) | 1.2 (0.56) |
| Median (Q1, Q3) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 1.0) |
| Min, Max | 0.00, 3.0 | 1.0, 5.0 | 1.0, 3.0 | 1.0, 3.0 | 0.00, 5.0 |
| Missing/Not Applicable | 467 | 269 | 610 | 430 | 1776 |
| **Reason for partner change** |  |  |  |  |  |
| Death of prior partner | 9 (19%) | 11 (15%) | 10 (19%) | 4 (22%) | 34 (18%) |
| Other:Specify | 21 (45%) | 1 (1.4%) | 1 (1.9%) | 4 (22%) | 27 (14%) |
| Separated/Divorced | 17 (36%) | 60 (83%) | 41 (79%) | 10 (56%) | 128 (68%) |
| Missing/Not Applicable | 475 | 280 | 613 | 430 | 1798 |
| *1*n (%) | | | | | |

### Obstetric Health Characteristics

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
  
dt\_ |>  
 tbl\_summary(  
 by=country,  
 digits = num\_vars ~ style\_sigfig,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{N\_nonmiss}",  
 "{mean} ({sd})",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "ifany",  
 missing\_text = "Missing/Not Applicable"  
 ) |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ) |>  
 bold\_labels() |>  
 func\_store\_gt\_table()

Table 1: 5.5: Baseline Characteristics of Women Sub-Saharan Africa countries

Table 5.5.5: Baseline Obstetric Health Characteristics

| **Obstetric Health** | **South Africa** N = 522 (26%)*1* | **Uganda** N = 352 (18%)*1* | **Malawi** N = 665 (33%)*1* | **Zimbabwe** N = 448 (23%)*1* | **Overall** N = 1987 (100%)*1* |
| --- | --- | --- | --- | --- | --- |
| **Total number of pregnancies** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 2.7 (1.1) | 3.9 (1.9) | 3.6 (1.6) | 3.2 (1.3) | 3.3 (1.6) |
| Median (Q1, Q3) | 3.0 (2.0, 3.0) | 4.0 (3.0, 5.0) | 3.0 (2.0, 4.0) | 3.0 (2.0, 4.0) | 3.0 (2.0, 4.0) |
| Min, Max | 1.0, 7.0 | 1.0, 13 | 1.0, 14 | 1.0, 8.0 | 1.0, 14 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Number of abortions/miscarriages** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 0.22 (0.45) | 0.45 (0.74) | 0.24 (0.54) | 0.23 (0.53) | 0.27 (0.56) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 1.0) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 3.0 | 0.00, 4.0 | 0.00, 4.0 | 0.00, 5.0 | 0.00, 5.0 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Number of ectopic pregnancies** |  |  |  |  |  |
| N Non-missing | 233 | 341 | 497 | 145 | 1216 |
| Mean (SD) | 0.02 (0.13) | 0.02 (0.15) | 0.03 (0.24) | 0.01 (0.12) | 0.02 (0.19) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 1.0 | 0.00, 1.0 | 0.00, 3.0 | 0.00, 1.0 | 0.00, 3.0 |
| Missing/Not Applicable | 289 | 11 | 168 | 303 | 771 |
| **Number stillbirths >20 weeks** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 0.08 (0.31) | 0.09 (0.35) | 0.08 (0.31) | 0.08 (0.30) | 0.08 (0.32) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 3.0 | 0.00, 3.0 | 0.00, 2.0 | 0.00, 3.0 | 0.00, 3.0 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Premature births** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 0.11 (0.33) | 0.08 (0.30) | 0.04 (0.21) | 0.05 (0.25) | 0.07 (0.27) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 2.0 | 0.00, 2.0 | 0.00, 2.0 | 0.00, 2.0 | 0.00, 2.0 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Number alive died<7 days** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 0.02 (0.16) | 0.07 (0.30) | 0.04 (0.26) | 0.06 (0.26) | 0.04 (0.25) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 2.0 | 0.00, 3.0 | 0.00, 4.0 | 0.00, 2.0 | 0.00, 4.0 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Number alive died>7 days** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 0.10 (0.34) | 0.21 (0.59) | 0.22 (0.50) | 0.17 (0.44) | 0.17 (0.47) |
| Median (Q1, Q3) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) | 0.00 (0.00, 0.00) |
| Min, Max | 0.00, 3.0 | 0.00, 7.0 | 0.00, 4.0 | 0.00, 3.0 | 0.00, 7.0 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Number alive today** |  |  |  |  |  |
| N Non-missing | 519 | 352 | 665 | 448 | 1984 |
| Mean (SD) | 2.2 (1.1) | 3.0 (1.6) | 2.9 (1.4) | 2.6 (1.1) | 2.7 (1.3) |
| Median (Q1, Q3) | 2.0 (1.0, 3.0) | 3.0 (2.0, 4.0) | 3.0 (2.0, 4.0) | 3.0 (2.0, 3.0) | 3.0 (2.0, 3.0) |
| Min, Max | 0.00, 6.0 | 0.00, 9.0 | 0.00, 8.0 | 0.00, 6.0 | 0.00, 9.0 |
| Missing/Not Applicable | 3 | 0 | 0 | 0 | 3 |
| **Outcome of the last pregnancy** |  |  |  |  |  |
| Is currently pregnant | 3 (0.6%) | 11 (3.1%) | 3 (0.5%) | 9 (2.0%) | 26 (1.3%) |
| Normal full birth died | 3 (0.6%) | 1 (0.3%) | 7 (1.1%) | 9 (2.0%) | 20 (1.0%) |
| Normal full birth weight live | 446 (86%) | 315 (89%) | 605 (91%) | 400 (89%) | 1766 (89%) |
| Other | 15 (2.9%) | 4 (1.1%) | 6 (0.9%) | 3 (0.7%) | 28 (1.4%) |
| Premature birth alive | 38 (7.3%) | 8 (2.3%) | 25 (3.8%) | 5 (1.1%) | 76 (3.8%) |
| Premature birth died | 4 (0.8%) | 2 (0.6%) | 3 (0.5%) | 2 (0.4%) | 11 (0.6%) |
| Spontaneous abortion | 4 (0.8%) | 9 (2.6%) | 7 (1.1%) | 14 (3.1%) | 34 (1.7%) |
| Stillbirth | 8 (1.5%) | 2 (0.6%) | 9 (1.4%) | 6 (1.3%) | 25 (1.3%) |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Are you currently breastfeeding** | 8 (1.5%) | 30 (8.5%) | 90 (14%) | 67 (15%) | 195 (9.8%) |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Date last breast-fed not known** | 88 (17%) | 19 (5.4%) | 54 (8.1%) | 4 (0.9%) | 165 (8.3%) |
| Missing/Not Applicable | 4 | 0 | 0 | 0 | 4 |
| **Never breastfed** | 60 (12%) | 4 (1.1%) | 4 (0.6%) | 4 (0.9%) | 72 (3.6%) |
| Missing/Not Applicable | 2 | 0 | 0 | 0 | 2 |
| **Children would have liked to have-life** |  |  |  |  |  |
| N Non-missing | 521 | 352 | 665 | 448 | 1986 |
| Mean (SD) | 2.8 (1.3) | 4.5 (1.9) | 3.4 (1.1) | 3.8 (1.2) | 3.5 (1.5) |
| Median (Q1, Q3) | 3.0 (2.0, 4.0) | 4.0 (4.0, 6.0) | 3.0 (3.0, 4.0) | 4.0 (3.0, 4.0) | 4.0 (2.0, 4.0) |
| Min, Max | 0.00, 10 | 1.0, 12 | 0.00, 8.0 | 0.00, 10 | 0.00, 12 |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **Would you like to have another child** |  |  |  |  |  |
| No | 316 (61%) | 111 (32%) | 409 (62%) | 232 (52%) | 1068 (54%) |
| Not sure | 36 (6.9%) | 17 (4.8%) | 32 (4.8%) | 33 (7.4%) | 118 (5.9%) |
| Yes | 169 (32%) | 224 (64%) | 224 (34%) | 183 (41%) | 800 (40%) |
| Missing/Not Applicable | 1 | 0 | 0 | 0 | 1 |
| **More children would like to have** |  |  |  |  |  |
| N Non-missing | 174 | 224 | 224 | 185 | 807 |
| Mean (SD) | 1.4 (0.70) | 1.5 (0.71) | 1.3 (0.55) | 1.5 (0.74) | 1.4 (0.68) |
| Median (Q1, Q3) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 1.0) | 1.0 (1.0, 2.0) | 1.0 (1.0, 2.0) |
| Min, Max | 0.00, 7.0 | 1.0, 5.0 | 1.0, 4.0 | 1.0, 4.0 | 0.00, 7.0 |
| Missing/Not Applicable | 348 | 128 | 441 | 263 | 1180 |
| **Period wait till birth of next child** |  |  |  |  |  |
| N Non-missing | 154 | 181 | 160 | 171 | 666 |
| Mean (SD) | 34 (22) | 28 (20) | 25 (22) | 23 (19) | 27 (21) |
| Median (Q1, Q3) | 36 (12, 48) | 24 (12, 36) | 24 (6.0, 36) | 14 (12, 36) | 24 (12, 36) |
| Min, Max | 0.00, 99 | 0.00, 99 | 0.00, 96 | 0.00, 84 | 0.00, 99 |
| Missing/Not Applicable | 368 | 171 | 505 | 277 | 1321 |
| **Don't know how long to wait** | 22 (4.3%) | 45 (13%) | 89 (13%) | 20 (4.5%) | 176 (8.9%) |
| Missing/Not Applicable | 10 | 0 | 0 | 0 | 10 |
| **Important to have another child** |  |  |  |  |  |
| Important | 74 (15%) | 116 (33%) | 114 (17%) | 94 (21%) | 398 (20%) |
| Not important | 343 (70%) | 93 (26%) | 420 (63%) | 235 (52%) | 1091 (56%) |
| Not sure/don't know | 35 (7.1%) | 26 (7.4%) | 30 (4.5%) | 31 (6.9%) | 122 (6.2%) |
| Very important | 39 (7.9%) | 117 (33%) | 101 (15%) | 88 (20%) | 345 (18%) |
| Missing/Not Applicable | 31 | 0 | 0 | 0 | 31 |
| **Did you want become pregnant at time** |  |  |  |  |  |
| Did not want to be pregnant | 209 (40%) | 36 (10%) | 241 (36%) | 97 (22%) | 583 (29%) |
| Wanted to be pregnant | 165 (32%) | 249 (71%) | 304 (46%) | 274 (61%) | 992 (50%) |
| Wanted to wait until sometime later | 146 (28%) | 67 (19%) | 120 (18%) | 77 (17%) | 410 (21%) |
| Missing/Not Applicable | 2 | 0 | 0 | 0 | 2 |
| *1*n (%) | | | | | |

### Medical Events History Characteristics

# Get Numeric Variables  
num\_vars<-names(  
 dt\_|>  
 select(-any\_of(keys)) |>  
 select\_if(is.numeric)  
 )  
  
non\_num\_vars<-names(  
 dt\_|>  
 select(-any\_of(c(keys,num\_vars)))  
)  
  
dt\_ |>  
 tbl\_summary(  
 by=country,  
 digits = num\_vars ~ style\_sigfig,  
 type = list(  
 all\_continuous() ~ "continuous2",  
 num\_vars ~ "continuous2"  
 ),  
 statistic = list(  
 all\_continuous() ~ c(  
 "{N\_nonmiss}",  
 "{mean} ({sd})",  
 "{median} ({p25}, {p75})",  
 "{min}, {max}"),  
 all\_categorical() ~ "{n} ({p}%)"  
 ),  
 missing = "ifany",  
 missing\_text = "Missing/Not Applicable"  
 ) |>  
 add\_overall(  
 col\_label="\*\*Overall\*\* <br>N = {style\_number(N)}",  
 last=TRUE  
 ) |>  
 bold\_labels() |>  
 func\_store\_gt\_table()

Table 1: 6.6: Baseline Characteristics of Women Sub-Saharan Africa countries

Table 6.6.6: Baseline Medical Events History Characteristics

| **Medical Events History** | **South Africa** N = 522 (26%)*1* | **Uganda** N = 352 (18%)*1* | **Malawi** N = 665 (33%)*1* | **Zimbabwe** N = 448 (23%)*1* | **Overall** N = 1987 (100%)*1* |
| --- | --- | --- | --- | --- | --- |
| **Current health status** |  |  |  |  |  |
| Excellent | 199 (38%) | 98 (28%) | 142 (21%) | 147 (33%) | 586 (29%) |
| Fair | 22 (4.2%) | 14 (4.0%) | 18 (2.7%) | 13 (2.9%) | 67 (3.4%) |
| Good | 169 (32%) | 94 (27%) | 181 (27%) | 126 (28%) | 570 (29%) |
| Poor | 3 (0.6%) | 0 (0%) | 0 (0%) | 5 (1.1%) | 8 (0.4%) |
| Very good | 129 (25%) | 146 (41%) | 324 (49%) | 157 (35%) | 756 (38%) |
| **Last 3 months,admitted to hospital** | 5 (1.0%) | 9 (2.6%) | 7 (1.1%) | 8 (1.8%) | 29 (1.5%) |
| **Past 3 months, been unwell** | 77 (15%) | 109 (31%) | 66 (9.9%) | 41 (9.2%) | 293 (15%) |
| **Fever for more than 2 weeks** | 1 (0.2%) | 0 (0%) | 6 (0.9%) | 2 (0.4%) | 9 (0.5%) |
| **Cough for more than 2 weeks** | 1 (0.2%) | 2 (0.6%) | 4 (0.6%) | 4 (0.9%) | 11 (0.6%) |
| **Lost weightin the last month** | 6 (1.1%) | 34 (9.7%) | 19 (2.9%) | 29 (6.5%) | 88 (4.4%) |
| **Had night sweats** | 1 (0.2%) | 5 (1.4%) | 4 (0.6%) | 3 (0.7%) | 13 (0.7%) |
| **Received tb the last 3 months** | 3 (0.6%) | 2 (0.6%) | 2 (0.3%) | 1 (0.2%) | 8 (0.4%) |
| **In household anyone with tb** | 15 (2.9%) | 6 (1.7%) | 11 (1.7%) | 8 (1.8%) | 40 (2.0%) |
| **Currently taking arv treatment** | 512 (98%) | 348 (99%) | 644 (97%) | 442 (99%) | 1946 (98%) |
| **Currently taking any other meds,herbs** | 310 (59%) | 350 (99%) | 615 (92%) | 338 (75%) | 1613 (81%) |
| *1*n (%) | | | | | |