**DM baseline data dictionary**

Table 1: Household file final (variables in gray are removed in the anonymous data set)

| **Question** | **Variable name** | **Label** | **Type/values** |
| --- | --- | --- | --- |
| Variables of identification and location (from ODK) |  |
|  | key | household key from ODK | String |
|  | prov | Province/site | Category: 1 site 12 site 2 3 site 3 |
|  | locality | Admin unit | String (name of locality) |
|  | clus | Cluster number | Integer , ### (101-320) |
|  | house | House number | Integer, ### |
|  | hhstatus | HH interview status | Category1 interviewed2 refused0 nobody home |
|  | datetime | Date and time of interview | Stringdd-mmm-yyyy hh:mm:ss |
|  | icode | Interviewer code | Integer, # (1-9) |
|  | int\_lat | Internal latitude | Continuous, decimal degree |
|  | int\_long | Internal longitude | Continuous, decimal degree |
|  | int\_alt | Internal altitude | Integer, meter |
|  | int\_acc | Internal accuracy | Integer, meter |
|  | latitude | Latitude (decimal) | Continuous, decimal degree |
|  | longitude | Longitude (decimal) | Continuous, decimal degree |
| Variables of identification and location (created or imported) |  |
|  | hhid | household ID | Integer ###### (clus-house) |
|  | vil | Village | String |
|  | date | Date of interview | Date (ddmmmyyyy) |
|  | ddate | Date of campaign distribution | Date (ddmmmyyyy) |
|  | tdistr | Time since distribution | Integer, ##.# |
| Variables from questionnaire |  |
| Q08 | resp | Q8 respondent for interview | Category1 head2 spouse3 other |
| Q09 | readwrite | Q9 HH head can read and write | Category0 No 1 Yes9 Don’t know |
| Q10 | school | Q10 HH head went to school | Category0 No 1 Yes9 Don’t know |
| Q11 | level | Q11 HH head highest level of schooling | Category1 primary 2 secondary 3 tertiary 9 Don’t Know |
| Q12 | roof | Q12 main roof material | Category1 grass/leaves2 thatch 3 sheets 4 tiles |
| Q13 | wall | Q13 main wall material | Category1 grass 2 mud 3 plastered 4 brick/concrete |
| Q14 | floor | Q14 main floor material | Category1 earth/sand 2 clay 3 wood etc. 4 vinyl/parquet 5 tiles/cement |
| Q15 | room | Q15 number of rooms | Integer, ## |
| Q16 | sroom | Q16 number of rooms for sleeping | Integer, ## |
| Q17 | splace | Q17 number of sleeping places | Integer, ## |
| Q18 | storefood | Q18 food storage in sleeping room | Category0 No 1 Yes9 Don’t know |
| Q19 | water | Q19 main source drinking water | Category1 surface 2 rain/gutter pipe 3 protected well 4 borehole 5 public tap 6 tap in house 7 other |
| Q19 | othwater | Q19 other water source | String |
| Q20 | latrine | Q20 type of latrine | Category1 none 2 shared pit 3 own pit 4 shared VIP 5 own VIP 6 shared flush 7 own flush |
| Q21 | cook | Q21 main fuel for cooking | Category1 firewood 2 charcoal 3 kerosene 4 gas 5 electricity |
| Q22 | slpcook | Q22 cooking in sleeping room | Category1 always 2 sometimes 3 never 9 Don’t know |
| Q23 | rodent | Q23 rodents seen around house last 6 months | Category0 No 1 Yes9 Don’t know |
| Q24 | radio | Q24 HH has radio | Category, 0 no, 1 yes |
| Q24 | tv | Q24 HH has TV | Category, 0 no, 1 yes |
| Q24 | fridge | Q24 HH has fridge | Category, 0 no, 1 yes |
| Q24 | fan | Q24 HH has electric fan | Category, 0 no, 1 yes |
| Q24 | iron | Q24 HH has iron | Category, 0 no, 1 yes |
| Q24 | mobile | Q24 HH has simple mobile | Category, 0 no, 1 yes |
| Q24 | smart | Q24 HH has smartphone | Category, 0 no, 1 yes |
| Q24 | computer | Q24 HH has computer | Category, 0 no, 1 yes |
| Q25 | bici | Q25 HH has bicycle | Category, 0 no, 1 yes |
| Q25 | moto | Q25 HH has motorbike | Category, 0 no, 1 yes |
| Q25 | car | Q25 HH has car or truck | Category, 0 no, 1 yes |
| Q25 | animaltrans | Q25 HH has animal transport | Category, 0 no, 1 yes |
| Q25 | Boat | Q25 HH has canoe, boat or ship | Category, 0 no, 1 yes |
| Q26 | chick | Q26 number of chicken | Integer, ### |
| Q26 | duck | Q26 number of ducks/turkeys | Integer, ### |
| Q26 | goat | Q26 number of goats/sheep | Integer, ### |
| Q26 | pig | Q26 number of pigs | Integer, ### |
| Q26 | cow | Q26 number of cows | Integer, ### |
| Q26 | donkey | Q26 number of donkeys/mules | Integer, ### |
| Q26 | othanimal | Q26 number of other animals | Integer, ### |
| Q27 | land | Q27 HH owns land for farming | Category0 No 1 Yes9 Don’t know |
| Q28 | hectar | Q28 land size in hectare | Continuous, ##.# |
| Q29 | anynet | Q29 HH owns any nets | Category, 0 no, 1 yes |
| Q30 | many | Q30 number of nets owned  | Integer ## |
| Q31 | numgotc2 | Q31 number of campaign nets received | Integer # |
| Q32 | getneto | Q32 HH got other nets since campaign | Category, 0 no, 1 yes |
| Q33 | numgeto | Q33 number of other nets obtained | Integer # |
| Q34 | getanc | Q34 HH got nets from ANC | Category, 0 no, 1 yes |
| Q34 | gethf | Q34 HH got nets from hospital or facility | Category, 0 no, 1 yes |
| Q34 | getrel | Q34 HH got nets from relatives or friends | Category, 0 no, 1 yes |
| Q34 | getshop | Q34 HH got nets from shop/pharmacy | Category, 0 no, 1 yes |
| Q34 | getmarket | Q34 HH got nets from market | Category, 0 no, 1 yes |
| Q34 | getoth | Q34 HH got nets from other source | Category, 0 no, 1 yes |
| Q35 | anymes | Q35 respondent heard message on nets last 6 month | Category, 0 no, 1 yes |
| Q36 | meschw | Q36 info from CHW | Category, 0 no, 1 yes |
| Q36 | mesradio | Q36 info from radio | Category, 0 no, 1 yes |
| Q36 | messong | Q36 info from song on radio | Category, 0 no, 1 yes |
| Q36 | mesdrama | Q36 info from drama performance | Category, 0 no, 1 yes |
| Q36 | meshw | Q36 info from health worker | Category, 0 no, 1 yes |
| Q36 | mislead | Q36 info from community leader | Category, 0 no, 1 yes |
| Q36 | mestown | Q36 info from town announce | Category, 0 no, 1 yes |
| Q36 | messhop | Q36 info from pharmacy or shop attendant | Category, 0 no, 1 yes |
| Q36 | mesfam | Q36 info from family or friends | Category, 0 no, 1 yes |
| Q36 | mesfaith | Q36 info from mosque or church | Category, 0 no, 1 yes |
| Q36 | mesnews | Q36 info from newspaper or TV | Category, 0 no, 1 yes |
| Q36 | mesoth | Q36 info from other source | Category, 0 no, 1 yes |
| Q37 | rcuse | Q37 recalls ‘use net’ | Category, 0 no, 1 yes |
| Q37 | rccare | Q37 recalls ‘care for net’ | Category, 0 no, 1 yes |
| Q37 | rchang | Q37 recalls ‘hang your net’ | Category, 0 no, 1 yes |
| Q37 | rcevery | Q37 recalls ‘use net every night’ | Category, 0 no, 1 yes |
| Q37 | rcprev | Q37 recalls ‘nets prevent malaria’ | Category, 0 no, 1 yes |
| Q37 | rcrep | Q37 recalls ‘repair your net’  | Category, 0 no, 1 yes |
| Q37 | rcoth | Q37 recalls other | Category, 0 no, 1 yes |
| Q38 | discuss | Q38 discussed net care & repair | Category, 0 no, 1 yes |
| Q39 | ls01 | Q39 can obtain enough nets for all children | Integer, # (-2,-1,1,2) |
| Q40 | ls02 | Q40 hang net for children | Integer, # (-2,-1,1,2) |
| Q41 | ls03 | Q41 Protect yourself/children from malaria | Integer, # (-2,-1,1,2) |
| Q42 | ls04 | Q42 Save enough money for nets for all children | Integer, # (-2,-1,1,2) |
| Q43 | ls05 | Q43 Sleep under a bed net every night of the year | Integer, # (-2,-1,1,2) |
| Q44 | ls06 | Q44 Get all children to use net every night | Integer, # (-2,-1,1,2) |
| Q60 | everhole | Q60 ever experienced holes in nets | Category, 0 no, 1 yes |
| Q61 | tear | Q61 torn on edge of nail | Category, 0 no, 1 yes |
| Q61 | corner | Q61 pulled and torn on corner | Category, 0 no, 1 yes |
| Q61 | burn | Q61 burned by candle or sparks | Category, 0 no, 1 yes |
| Q61 | rats | Q61 damaged by rats or mice | Category, 0 no, 1 yes |
| Q61 | holeoth | Q61 damaged in another way | Category, 0 no, 1 yes |
| Q61 | holednk | Q61 don't know how | Category, 0 no, 1 yes |
| Q62 | everrepair | Q62 ever repaired holes in net | Category, 0 no, 1 yes |
| Q63 | stitch | Q63 stitched hole | Category, 0 no, 1 yes |
| Q63 | knot | Q63 knotted hole | Category, 0 no, 1 yes |
| Q63 | patch | Q63 patched hole | Category, 0 no, 1 yes |
| Q63 | repairoth | Q63 repaired in other way | Category, 0 no, 1 yes |
| Q64 | repair6hh | Q64 household member repaired | Category, 0 no, 1 yes |
| Q64 | repair6tlr | Q64 tailor repaired | Category, 0 no, 1 yes |
| Q64 | repair6frn | Q64 friend or relative repaired | Category, 0 no, 1 yes |
| Q64 | repair6vol | Q64 community volunteer repaired | Category, 0 no, 1 yes |
| Q64 | repair6oth | Q64 other person repaired | Category, 0 no, 1 yes |
| Q65 | norep | Q65 main reason for not repairing holes | Category1 no time 2 not necessary 3 don't know how 4 lack materials 5 holes too small 6 not possible 7 other 9 Don’t know |
| Q65 | norepoth | Q66 other reason for not repairing | String |
| Q66 | dochild | Q66 keep from children to protect nets | Category, 0 no, 1 yes |
| Q66 | dopest | Q66 keep pests away to protect nets | Category, 0 no, 1 yes |
| Q66 | dotie | Q66 tie up net to protect nets | Category, 0 no, 1 yes |
| Q66 | dohandle | Q66 handle with care to protect nets | Category, 0 no, 1 yes |
| Q66 | donofood | Q66 do not soil with food to protect nets | Category, 0 no, 1 yes |
| Q66 | dofire | Q66 keep from flames/fire to protect nets | Category, 0 no, 1 yes |
| Q66 | dogentle | Q66 wash gently to protect nets | Category, 0 no, 1 yes |
| Q66 | dowash | Q66 wash only when dirty to protect nets | Category, 0 no, 1 yes |
| Q66 | doinsp | Q66 inspect for holes regularly to protect nets | Category, 0 no, 1 yes |
| Q66 | doearly | Q66 repair holes early to protect nets | Category, 0 no, 1 yes |
| Q66 | doimposs | Q66 not possible to protect nets from holes | Category, 0 no, 1 yes |
| Q66 | donothing | Q66 do nothing to protect nets | Category, 0 no, 1 yes |
| Q66 | dooth | Q66 do other to protect nets | Category, 0 no, 1 yes |
| Q67 | wgentle | Q67 wash gently | Category, 0 no, 1 yes |
| Q67 | wbasin | Q67 wash in basin | Category, 0 no, 1 yes |
| Q67 | wsoap | Q67 use mild soap | Category, 0 no, 1 yes |
| Q67 | wdirty | Q67 wash only when dirty | Category, 0 no, 1 yes |
| Q67 | wfreq | Q67 wash not more than once per 3 months | Category, 0 no, 1 yes |
| Q67 | wstream | Q67 do not wash in stream/river | Category, 0 no, 1 yes |
| Q67 | woth | Q67 wash other | Category, 0 no, 1 yes |
| Q67 | wother | Q67 other specify | String |
| Q68 | ls07 | Q68 nets are valuable | Integer, # (-2,-1,1,2) |
| Q69 | ls08 | Q69 can take action for net to last long | Integer, # (-2,-1,1,2) |
| Q70 | ls09 | Q70 not possible to repair holes | Integer, # (-2,-1,1,2) |
| Q71 | ls10 | Q71 repaired net can still be effective | Integer, # (-2,-1,1,2) |
| Q72 | ls11 | Q72 other repair holes | Integer, # (-2,-1,1,2) |
| Q73 | ls12 | Q73 have no time to repair | Integer, # (-2,-1,1,2) |
| Q74 | ls13 | Q74 can help family by taking care of net | Integer, # (-2,-1,1,2) |
| Q75 | ls14 | Q75 confident to repair holes immediately | Integer, # (-2,-1,1,2) |
| Q76 | numgotc | Q76 corrected number of campaign nets received | Integer, ## |
| Q77 | lostc | Q77 lost any campaign net | Category, 0 no, 1 yes |
| Q78 | have | Q78 number of campaign nets still there | Integer, ## |
| Q78 | nlostc | Q78 number of campaign nets lost | Integer, ## |
| Q79 | netage1 | Q79 months until loss | Integer ## (98= dnk) |
| Q80 | netstat1netstat2netstat3 | Q80 what happened to net | Category1 stolen 2 destroyed by accident 3 sold 4 given to relatives 5 given others 6 thrown away 7 used otherwise 8 other 9 Don’t know |
| Q81 | ause1ause2ause3 | Q81 alternative use | Category1 window covering etc 2 protecting plants 3 fishing 4 drying fish 5 bedding 6 latrine 7 patch other nets 8 cut up for various 9 other 10 Don’t know |
| Q82 | reas1reas2reas3 | Q82 reason for not keeping net | Category1 too torn 2 too dirty 3 not needed 4 did not like 5 needed money 6 other 9 Don’t know |
| Variables created or imported |  |
|  | edu | Educational level of head HH | Category0 non-literate 1 primary 2 secondary 3 tertiary 9 Don’t know |
|  | edugr | grouped education of head | Category0 non-literate 1 primary 2 secondary or better |
|  | watergr | Grouped water source | Category1 unsafe: surface or rain pipe 2 safe: well or borehole 3 safe: tap |
|  | latrgr | Grouped type of latrine | Category1 none/bush 2 pit 3 VIP 4 flush |
|  | anytrans | HH has any means of transport | Category, 0 no, 1 yes |
|  | anyanimal | HH has livestock (husbandry) | Category, 0 no, 1 yes |
|  | ecogr | HH economic assets | Category0 no livestock, no land 1 livestock, no land2 no livestock, land 3 both livestock and land |
|  | person | Number of de-jure HH members | Integer, ## |
|  | persgr | Grouped household size | Category0 1-31 4-62 7+ |
|  | numu5 | Number of U5 in HH | Integer, # |
|  | anyU5 | HH has any U5 | Category, 0 no, 1 yes |
|  | hhage | Age of head of HH (years) | Integer, ## |
|  | sexhh | Gender of head HH | Category1 male2 female |
|  | wealth | Wealth score from PCA | Continuous, ##.#### |
|  | ses | Wealth tertiles | Category1 lowest2 middle3 highest |
|  | nummes | # of info sources mentioned | Integer, # |
|  | nummesgr | Grouped # of info sources | Category0 1234 or more |
|  | mesmedia | Info from radio or print media | Category, 0 no, 1 yes |
|  | mesipc | Info from IPC (inter-personal communication) | Category, 0 no, 1 yes |
|  | mesgr | Combination of info sources | Category0 None1 media only2 both3 IPC only |
|  | rcuse2 | Recalls use or use every night  | Category, 0 no, 1 yes |
|  | numrc | # of messages recalled | Integer, # |
|  | numdo | # of positive actions mentioned | Integer, ## |
|  | numdogr | Grouped # of positive actions mentioned | Category01234 or more |
|  | numw | # of correct washing approaches | Integer, # |
|  | numwgr | Grouped # of correct washing approaches | Category01234 or more |
|  | nattscore | Net attitude score | Continuous, #.## |
|  | nattgr | Grouped net attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
|  | nattpos | Positive net attitude (>0) | Category, 0 no, 1 yes |
|  | crattscore | Care & repair attitude score | Continuous, #.## |
|  | crattgr | Grouped c&r attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
|  | crattpos | Positive c&r attitude (>0) | Category, 0 no, 1 yes |
|  | ncohort | # of cohort nets in HH | Integer, # |
|  | nhole | # of cohort nets with any hole in HH | Integer, # |
|  | ngood | # of cohort nets in good condition in HH | Integer, # |
|  | nserv | # of cohort nets in serviceable condition in HH | Integer, # |
|  | ntorn | # of cohort nets torn in HH | Integer, # |
|  | nrep | # of cohort nets with repairs in HH | Integer, # |
|  | anycohort | HH has any cohort nets | Category, 0 no, 1 yes |
|  | anyhole | HH has any cohort nets with holes | Category, 0 no, 1 yes |
|  | anygood | HH has any cohort nets in good condition | Category, 0 no, 1 yes |
|  | anyserv | HH has any cohort nets serviceable | Category, 0 no, 1 yes |
|  | anytorn | HH has any cohort nets torn | Category, 0 no, 1 yes |
|  | numcnet | # of non-cohort campaign nets in HH | Integer, # |
|  | nncnet | # of non-campaign nets in HH | Integer, # |
|  | npub\_n | # of non-campaign nets from public in HH | Integer, # |
|  | npriv | # of nets from private in HH | Integer, # |
|  | nosource | # of nets from family/friends, NGO etc in HH | Integer, # |
|  | nllin\_ncnet | # of non-cohort LLIN in HH | Integer, # |
|  | nitn\_ncnet | # of non-cohort ITN in HH | Integer, # |
|  | anypriv | HH has any nets from private | Category, 0 no, 1 yes |
|  | anycnet | HH has any nets from campaign | Category, 0 no, 1 yes |
|  | anyncnet | HH has any non-campaign nets | Category, 0 no, 1 yes |
|  | anypub\_ncnet | HH has any non-campaign nets from public | Category, 0 no, 1 yes |
|  | anyosource | HH has any nets from family/friends, NGO etc | Category, 0 no, 1 yes |
|  | many2 | # of nets owned by HH from net files | Integer, ## |
|  | nllin | # of LLIN owned by HH | Integer, ## |
|  | nitn | # of ITN owned by HH | Integer, ## |
|  | netpers | nets per person in HH | Continuous, #.# |
|  | p2net | HH has 1net/2people | Category, 0 no, 1 yes |
|  | netitn | ITN per person in HH | Continuous, #.# |
|  | p2itn | HH has 1ITH/2people | Category, 0 no, 1 yes |
|  | suplpitn | HH supply situation with ITN | Category0 no ITN 1 < 1ITN/ 3 persons 2 1 ITN/ 3 persons 3 1 ITN/ 2 persons 4 1 ITN/ person or more |
|  | suplp2 | HH supply with ITN grouped | Category0 none 1 not enough 2 enough (1ITN/2people or more) |

Table 2: Household member (individuals) file final (variables in gray are removed in the anonymous data set)

| **Question** | **Variable name** | **Label** | **Type/values** |
| --- | --- | --- | --- |
| Variables of identification and location (from ODK records) |  |
|  | indkey | individual key from OD | String |
|  | key | household key from ODK | String |
|  | persid | individal ID | Integer, ########(cluster-hh-line) |
| Variables imported from household file |  |
|  | prov | Province/ site | Category: 1 site 12 site 2 3 site 3 |
|  | clus | Cluster number | Integer , ### (101-320) |
|  | house | House number | Integer, ### |
|  | hhid | household ID | Integer ###### (clus-house) |
|  | line | Person’s line number | Integer, ## |
| Variables from questionnaire |  |
| Q02  | name | Q02 name of HH member | String |
| Q03 | rel | Q03 relation to head of HH | Category1 head 2 spouse 3 son/daughter 4 son/daughter in law 5 grandchild 6 parents 7 parents in law 8 brother/sister/in law 9 other relative 10 adopted/foster/stepchild 11 not related 98 Don’t know |
| Q04 | sex | Q05 gender of individual | Category1 male2 female |
| Q05 | live | Q05 usually lives here - de jure member | Category0 No 1 Yes9 Don’t know |
| Q06 | stay | Q06 stayed in house last night - de facto member | Category0 No 1 Yes9 Don’t know |
| Q07 | age | Q07 Age in years | Integer, ### (999=dnk)  |
| Q08 | agem | Q07 Age in months | Integer, ## |
| Variables created or imported |  |
|  | u5 | Is under 5 years | Category, 0 no, 1 yes |
|  | agegr | Age groups in years | Category0 0-41 5-142 15-243 25-494 50+ |
|  | hhage | Age of head of HH | Integer, ## |
|  | hhsex | Gender of head of HH | Category1 male 2 female |
|  | ses | Wealth tertiles | Category1 lowest2 middle3 highest |
|  | nitn | # of ITN in HH | Integer, ## |
|  | p2itn | HH has 1ITN/2people | Category, 0 no, 1 yes |
|  | potuse | Potential ITN users in HH | Integer, ## |
|  | access | Has access to ITN | Category, 0 no, 1 yes |

Table 3: Campaign net file final (variables in gray are removed in the anonymous data set)

| **Question** | **Variable name** | **Label** | **Type/values** |
| --- | --- | --- | --- |
| Variables of identification and location (from ODK records) |  |
|  | netid | individal ID | Integer, ########(cluster-hh-net) |
|  | cnetid | DM cohort ID number on net | Integer #### |
|  | key | household key from ODK | String |
|  | netkey | key for net from ODK | String |
| Variables imported from household file |  |
|  | hhid | household ID | Integer ###### (clus-house) |
|  | clus | Cluster number | Integer , ### (101-320) |
|  | prov | Province/site | Category: 1 site 12 site 2 3 site 3 |
|  | date | Date of interview | Date (ddmmmyyyy) |
|  | tdistr | Time since distribution (months) | Integer, ##.# |
|  | ses | Wealth tertiles | Category1 lowest2 middle3 highest |
|  | edugr | grouped education of head | Category0 non-literate 1 primary 2 secondary or better |
|  | persgr | Grouped household size | Category0 1-31 4-62 7+ |
|  | numu5 | Number of U5 in HH | Integer, # |
|  | anyu5 | HH has any U5 | Category, 0 no, 1 yes |
|  | mesgr | Combination of info sources | Category0 None1 media only2 both3 IPC only |
|  | numdogr | Grouped # of positive actions mentioned | Category01234 or more |
|  | numwgr | Grouped # of correct washing approaches | Category01234 or more |
|  | nattgr | Grouped net attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
|  | crattgr | Grouped c&r attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
| Variables from questionnaire |  |
| Q83 | magnet  | 83 is MagNet from campaign | Category, 0 no, 1 yes |
| Q83 | royal | Q83 is Royal Sentry from campaign | Category, 0 no, 1 yes |
| Q84 | cshape | Q84 is rectangular | Category, 0 no, 1 yes |
| Q85 | ccolor | Q85 color of campaign net  | Category1 white 2 green 3 blue 4 other |
| Q86 | confc | Q86 is confirmed campaign net | Category, 0 no, 1 yes |
| Q87 | loc | Q87 location of net | Category1 hang loose 2 hang folded/tied 3 taken down 4 stored 5 in package 6 temporarily taken away |
| Q88 | splace | Q88 type of sleeping place | Category1 bedframe (finished) 2 bedframe (sticks) 3 foam mattress 4 reed mat 5 grass 6 ground 7 never used |
| Q89 | uselast | Q89 net used last night | Category0 No 1 Yes9 Don’t know |
| Q90 | notuse | Q90 main reason for not using | Category1 no mosquitoes 2 no malaria 3 too hot 4 smell 5 feel closed in 6 too old/torn 7 too dirty 8 net not available (washing)9 user not around 10 not needed 11 other 98 Don’t know |
| Q91 | useinfant | Q91 infant used net | Category, 0 no, 1 yes |
| Q91 | usech | Q91 child 1-4 yrs used net | Category, 0 no, 1 yes |
| Q91 | useoch | Q91 child 5-9 yrs used net | Category, 0 no, 1 yes |
| Q91 | useadol | Q91 adolescent 10-19 yrs used net | Category, 0 no, 1 yes |
| Q91 | useadult | Q91 adult used net | Category, 0 no, 1 yes |
| Q92 | freq | Q92 use frequency last week | Category1 every night 2 most (5-6) 3 some (1-4) 4 not used 5 never used 9 Don’t know |
| Q93 | wash | Q93 net ever washed | Category0 No 1 Yes9 Don’t know |
| Q94 | times | Q94 number of washes last 6 months | Integer, ## |
| Q95 | soap | Q95 type of soap used | Category1 bar soap 2 detergent 3 bleach 4 mix 5 none 6 never washed |
| Q96 | dried | Q96 how net was dried | Category1 outside ground 2 outside line 3 outside bush 4 inside |
| Q97 | everh | Q97 net ever had hole | Category0 No 1 Yes9 Don’t know |
| Q98 | tear1 | Q98 torn on object | Category, 0 no, 1 yes |
| Q98 | tear2 | Q98 pulled and tore | Category, 0 no, 1 yes |
| Q98 | burn | Q98 burned by flame or spark | Category, 0 no, 1 yes |
| Q98 | rats | Q98 damaged by rodents | Category, 0 no, 1 yes |
| Q98 | seam | Q98 seam came open | Category, 0 no, 1 yes |
| Q98 | mecoth | Q98 otherwise damaged | Category, 0 no, 1 yes |
| Q98 | mecdnk | Q98 don't know how damaged | Category, 0 no, 1 yes |
| Q99 | size1 | Q99 # of holes size 1 | Integer ### |
| Q101 | size2 | Q101 # of holes size 2 | Integer ### |
| Q103 | size3 | Q103 # of holes size 3 | Integer ### |
| Q105 | size4 | Q105 # of holes size 4 | Integer ### |
| Q107 | repair | Q107 # of fully repaired holes | Integer ## |
| Q108 | partrep | Q108 # of partly repaired holes | Integer ## |
| Q109 | modify | Q109 net was modified | Category, 0 no, 1 yes |
| Q110 | howmod | Q110 how modified | Category1 change shape 2 lengthen 3 enforce 4 other |
| Variables created |  |
|  | hang | Net is hanging | Category, 0 no, 1 yes |
|  | slpacegr | Grouped type of sleeping place | Category1 bed 2 mattress 3 mat or ground 4 not used |
|  | usegr | Grouped net users | Category1 U5 only 2 U5 + older child 3 child only 4 U5+adult/adol 5 U5+ch+adult6 adol/adult only 7 child + adult |
|  | usegr2 | Grouped net users | Category1 children only 2 children + adol/adult 3 adol/adult only |
|  | nmech | Number of hole mechanisms reported | Integer, # |
|  | tear | Any tear mechanism | Category, 0 no, 1 yes |
|  | code98 | is coded 98 | Category, 0 no, 1 yes |
|  | anyhole | Has any hole | Category, 0 no, 1 yes |
|  | phiw | Proportionate Hole Index WHOPES | Integer, #### |
|  | phiwgr | Grouped pHIw | Category1 0-64 good 2 65-400 some damage 3 401-768 serious damage 4 768+ too torn |
|  | good |  | Category, 0 no, 1 yes |
|  | torn |  | Category, 0 no, 1 yes |
|  | damage |  | Category, 0 no, 1 yes |
|  | serv |  | Category, 0 no, 1 yes |
|  | anyrep |  | Category, 0 no, 1 yes |
|  | anyrepf |  | Category, 0 no, 1 yes |
|  | anyrepp |  | Category, 0 no, 1 yes |

Table 4: Other net file final (variables in gray are removed in the anonymous data set)

| **Question** | **Variable name** | **Label** | **Type/values** |
| --- | --- | --- | --- |
| Variables of identification and location (from ODK records) |  |
|  | netid | individal ID | Integer, ########(cluster-hh-net) |
|  | key | household key from ODK | String |
|  | netkey | key for net from ODK | String |
| Variables imported from household file |  |
|  | hhid | household ID | Integer ###### (clus-house) |
|  | clus | Cluster number | Integer , ### (101-320) |
|  | prov | Province/site | Category: 1 site 12 site 2 3 site 3 |
|  | date | Date of interview | Date (ddmmmyyyy) |
|  | tdistr | Time since distribution (months) | Integer, ##.# |
|  | ses | Wealth tertiles | Category1 lowest2 middle3 highest |
|  | edugr | grouped education of head | Category0 non-literate 1 primary 2 secondary or better |
|  | persgr | Grouped household size | Category0 1-31 4-62 7+ |
|  | numu5 | Number of U5 in HH | Integer, # |
|  | anyu5 | HH has any U5 | Category, 0 no, 1 yes |
|  | mesgr | Combination of info sources | Category0 None1 media only2 both3 IPC only |
|  | numdogr | Grouped # of positive actions mentioned | Category01234 or more |
|  | numwgr | Grouped # of correct washing approaches | Category01234 or more |
|  | nattgr | Grouped net attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
|  | crattgr | Grouped c&r attitude score | Category0 -2 to 0"1 0.01 to 1.02 1.01 to 2.0 |
| Variables from questionnaire |  |
| Q111 | seen | Q111 net seen | Category0 No 1 Yes9 Don’t know |
| Q112 | brand | Q112 brand of net | Category1 Permanet 2 Dawa Plus 3 Olyset 4 Duranet 5 Interceptor 6 Netprotect 7 tailor made 8 unbranded 9 other 10 unknown 11 MagNet 12 Royal Sentry 13 NH 14 Serena |
| Q112 | brandoth | Q112 other brand | String |
| Q113 | shape | Q113 shape of net | Category1 recangular 2 conical |
| Q114 | color | Q114 color of net | Category1 white 2 green 3 blue 4 other |
| Q115 | dip | Q115 net ever dipped | Category0 No 1 Yes9 Don’t know |
| Q116 | dipm | Q116 months since last dipping | Integer, ## |
| Q116 | dipmgr | Q116 dipped last 12 month | Category, 0 no, 1 yes |
| Q117 | nagem | Q117 net age in months | Integer, ## |
| Q117 | nagey | Q117 net age in years | Integer, ## |
| Q118 | source | Q118 source of net | Category1 campaign 2 ANC 3 health facility 4 CDD/CHW 5 faith org 6 family or friends 7 private clinic 8 pharmacy 9 shop/supermarket 10 market 11 hawker 12 school 13 NGO 14 other |
| Q118 | sourceoth | Q118 other source | String |
| Q119 | pay | Q119 paid for net | Category0 No 1 Yes9 Don’t know |
| Q120 | loc | Q120 location of net | Category1 hang loose 2 hang folded/tied 3 taken down 4 stored 5 in package 6 temporarily taken away |
| Q121 | uselast | Q121 net used last night | Category0 No 1 Yes9 Don’t know |
| Q122 | notuse | Q122 main reason for not using | Category1 no mosquitoes 2 no malaria 3 too hot 4 smell 5 feel closed in 6 too old/torn 7 too dirty 8 net not available (washing)9 user not around 10 not needed 11 other 98 Don’t know |
| Q122 | notuseoth | Q122 other reasons for nonuse | String |
| Q123 | useinfant | Q123 infant used net | Category, 0 no, 1 yes |
| Q123 | usech | Q123 child 1-4 yrs used net | Category, 0 no, 1 yes |
| Q123 | useoch | Q123 child 5-9 yrs used net | Category, 0 no, 1 yes |
| Q123 | useadol | Q123 adolescent 10-19 yrs used net | Category, 0 no, 1 yes |
| Q123 | useadult | Q123 adult used net | Category, 0 no, 1 yes |
| Q124 | freq | Q124 use frequency last week | Category1 every night 2 most (5-6) 3 some (1-4) 4 not used 5 never used 9 Don’t know |
| Q125 | wash | Q125 net ever washed | Category0 No 1 Yes9 Don’t know |
| Q126 | times | Q126 number of washes last 6 months | Integer, ## |
| Variables created |  |
|  | llin | is LLIN | Category, 0 no, 1 yes |
|  | itn | is ITN | Category, 0 no, 1 yes |
|  | ntype | Type of net | Category1 LLIN 2 conv ITN 3 untreated |
|  | netage | age of net in months | Integer, ### |
|  | nagegr | grouped net age in months | Category0612243648 (+) |
|  | cnet | campaign net | Category, 0 no, 1 yes |
|  | ncnet | non-campaign net | Category, 0 no, 1 yes |
|  | pub\_ncnet | non-campaign net from public sector | Category, 0 no, 1 yes |
|  | priv | net from private sector | Category, 0 no, 1 yes |
|  | sourcegr | grouped sources of net | Category1 public 2 private 3 other |
|  | osource | net from family/friends, NGO etc | Category, 0 no, 1 yes |
|  | hang | net is hanging | Category, 0 no, 1 yes |
|  | usegr | Grouped net users | Category1 U5 only 2 U5 + older child 3 child only 4 U5+adult/adol 5 U5+ch+adult6 adol/adult only 7 child + adult |
|  | usegr2 | Grouped net users | Category1 children only 2 children + adol/adult 3 adol/adult only |

Table 5: Lost campaign nets file final (extracted from household file)

| **Question** | **Variable name** | **Label** | **Type/values** |
| --- | --- | --- | --- |
| Variables of identification and location  |  |
|  | hhid | household ID | Integer ###### (clus-house) |
|  | net | net number | Integer, # |
|  | prov | Province/site | Category: 1 site 12 site 2 3 site 3 |
| Variables from questionnaire |  |
| Q79 | netage | Q79 months until loss | Integer ## (98= dnk) |
| Q80 | netstat | Q80 what happened to net | Category1 stolen 2 destroyed by accident 3 sold 4 given to relatives 5 given others 6 thrown away 7 used otherwise 8 other 9 Don’t know |
| Q81 | ause | Q81 alternative use | Category1 window covering etc 2 protecting plants 3 fishing 4 drying fish 5 bedding 6 latrine 7 patch other nets 8 cut up for various 9 other 10 Don’t know |
| Q82 | reas | Q82 reason for not keeping net | Category1 too torn 2 too dirty 3 not needed 4 did not like 5 needed money 6 other 9 Don’t know |
| Q82 | reasoth | Q82 other reasons | String |
| Variables created  |  |
|  | attr | attrition | Category1 given away to others 2 discarded / used otherwise 3 unknown |
|  | given | given away | Category, 0 no, 1 yes |
|  | discard | discarded or used otherwise | Category, 0 no, 1 yes |