



Africa Centre Demographic Information System (ACDIS)

Dataset Documentation

HIV Surveillance 2011

Change History

<u>Who</u>	<u>When</u>	<u>What</u>
Colin Newell	23 rd February 2011	Original

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welcometrust

Dataset name	HIV 2011 NB Data Collection not complete at time of writing (Feb 2011)
Description	<p>The “Eligibility List” for the 2011 Round of the HIV Surveillance used 10 December 2010 as its reference date. The criteria for inclusion were different for Residents and non-Residents. For Residents (i.e. those with an Individual Residency episode when last seen) all males and females aged 15 and over were selected. For Non-Residents a stratified sampling procedure was adopted with the overall objective of obtaining a representative sample of approximately 10% of all non-residents aged 15-49 (females) and 15-54 (males). The 10 strata were defined by sex and by five ‘return patterns’, i.e. self-stated frequencies of returning home to the household in the DSA (‘annual’, ‘occasional’, ‘month end’, ‘frequent’, and ‘other’). Other criteria were also used, and full details are available separately.</p> <p>The total number eligible, Resident and Non-resident, was 40,886, and this is the number of rows in the dataset.</p> <p>The field visits took place from January 2011 to Dec 2011. At the time of visit some people included in the Eligibility List were found to in fact be ineligible – perhaps because they were dead, very sick, or had outmigrated – events either not known about at the time the Eligibility List was compiled, or occurring between the drawing up of the Eligibility List and the actual visit. These ‘retrospective ineligibilities’ are identifiable in the dataset as ‘Premature Completions’ with reasons such as “Death or “Outmigration”. There were also some individuals who could not be contacted, even after repeated visits and ‘tracking’ attempts for those who were reported to have moved. These are identifiable as <i>PrematureCompletionReason</i> = Non-Contact. Additionally some people were contacted but refused to participate in the survey. They are identifiable by <i>VisitType</i> = Refusal. Finally there are some who participated in the survey, but refused the HIV test offered. They are identifiable as <i>HIVRefused</i> = ‘Y’</p> <p>Note that the section asking about height, weight and blood pressure, which was added in 2010 is removed again.</p>
Rows/Units of analysis	Eligible individuals – see text above for details
Unique identifier(s)	Questionnaireid
Approx. number of rows	38,200

BioMeasures Form

BSID

Section 1. Identification

Surname, Firstname(s) _____ Age _____ years Sex _____

DSID _____ Visit Ref.# _____ Visit Date Y Y Y Y M M D D

Staff Member _____ Visit Type _____ Supervised? Yes No

HHID _____ Has residency changed? Yes No

Section 2. Operational Information

Fieldworker Attempts

Staff Member	Attempt Date	Comment
1. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
2. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
3. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
4. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____

Tracker/Special Task Team Attempts

Staff Member	Attempt Date	Comment
1. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
2. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
3. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____
4. _____	<u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u> <u>M</u> <u>M</u> <u>D</u> <u>D</u>	_____

Reason for premature completion

Reported dead? > Complete DTNB form

Outmigrated outside DSA > FORM COMPLETE

Mentally Disabled > FORM COMPLETE

Not found after 4 + 4 attempts > FORM COMPLETE

Very sick > FORM COMPLETE

Broken down/non-functional BS > FORM COMPLETE

Other > Specify _____ > FORM COMPLETE

Refused Form? Yes > Refused by: Self Partner HH Head BS Owner Other > Specify: _____ > FORM COMPLETE

Section 3. Specimen for HIV Testing

Staff Id. _____ Refused Test? Yes Refused by? Self Partner HH Head BS Owner Other > _____ > Section 5

Stick barcode label B here

Section 4. Quality Control

Identity of SampleID and DSID on specimen and BMF checked and found to be consistent? Yes No

Specimen quality according to standard procedure? Yes No

Quality Control Section involved? Yes No

DSID label from specimen

Staff ID _____

Signature _____

Date Y Y Y Y M M D D

Section 5. Attitudes towards HIV testing

We would like to ask you some further questions about HIV testing. Please remember that you are completely free to answer some or none of these questions. Your answers will be treated with absolute confidentiality.

1. There are many places to get an HIV test. Which is the best place for you to get tested?	At home <input type="checkbox"/>	
Tick ONE answer only	Counselling Centre <input type="checkbox"/>	
	At the clinic <input type="checkbox"/>	
	Mobile testing unit <input type="checkbox"/>	
	At the hospital <input type="checkbox"/>	
	Private doctor <input type="checkbox"/>	
	Other <input type="checkbox"/>	→ <input type="text"/>
	Don't know <input type="checkbox"/>	Specify
	Prefers not to answer <input type="checkbox"/>	
2. Do you know your HIV status?	Yes <input type="checkbox"/>	
	No <input type="checkbox"/>	→ Q5
	Prefers not to answer <input type="checkbox"/>	
3. When was the last time you had a HIV test?	In last 6 months <input type="checkbox"/>	
	6 month to 1 year ago <input type="checkbox"/>	
	More than a year ago <input type="checkbox"/>	
	Prefers not to answer <input type="checkbox"/>	
4. Where did you test the last time?	At home <input type="checkbox"/>	
Tick ONE answer only	Counselling Centre <input type="checkbox"/>	
	At the clinic <input type="checkbox"/>	
	Mobile testing unit <input type="checkbox"/>	
	At the hospital <input type="checkbox"/>	
	Private doctor <input type="checkbox"/>	
	Other <input type="checkbox"/>	→ <input type="text"/>
	Don't know <input type="checkbox"/>	Specify
	Prefers not to answer <input type="checkbox"/>	
5. Have you ever heard about anti-retroviral treatment (ART)?	Yes <input type="checkbox"/>	
	No <input type="checkbox"/>	→ Form complete
	Prefers not to answer <input type="checkbox"/>	→ Form complete
6. Do you think ART can help people to improve their health?	Yes <input type="checkbox"/>	
	No <input type="checkbox"/>	
	Don't know <input type="checkbox"/>	
	Prefers not to answer <input type="checkbox"/>	
7. Do you know places where one could get ART?	Yes <input type="checkbox"/>	→ Where? <input type="text"/>
	No <input type="checkbox"/>	
	Prefers not to answer <input type="checkbox"/>	

HIV Survey 2011 Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
QuestionnaireId	Computer-generated Identification, also known as Document Id. Printed under the barcode on the form. The barcode also represents this number.	<i>QuestionnaireAllocations.QuestionnaireAllocation</i>	Integer in range 45507874 to 45676993	Unique identifier for the printed form.
DocumentStatus	Whether form is printed, in field, archived etc	<i>DocumentStatuses.StatusDescription</i>	Text string.	
BMFStatusObservation	Computer-generated Identification	<i>BMFStatusObservations.BMFStatusObservation</i>	Null or Integer 259106 thru 262787	Will be Null if there is a Premature Completion
PrematureCompletionReason	Reason for Premature Completion of questionnaire	<i>PrematureCompletions.Reason</i>	BSB – Non-functional BS DED - Dead IME - Outmigrated MDA – Mentally disabled MUD – Migrated Unknown dest. NCT – Non-contact OTH - Other RTK – Refused tracking VSK – Very sick Null	Will be Null if there is a BMFStatusObservation
PrematureCompletionReasonName	Name associated with premature completion code in previous variable	<i>PrematureCompletionReasons.Name</i>	Text string	
PrematureCompletionOtherComment		<i>PrematureCompletions.Comment</i>	Text string	Completed when Reason = 'Other'
IntId	Registered Individual's unique identifier	<i>RegisteredIndividuals.IntId</i>	Integer 1 – 157000 approx	Any duplicates will be because of later merging of a duplicated individual.

HIV Survey 2011 Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
Sex	Sex	<i>RegisteredIndividuals.Sex</i>	MAL - Male FEM – Female	58% female
DateOfBirth	Date of birth	RegisteredIndividual's Delivery Event date.	Dates 1898 to Dec 1995	
Resident	Is a Resident of DSS area, as far as we know, at time Eligibility List created	<i>QuestionnaireAllocations.Resident</i>	Y – Yes N – No (8.2%)	Note we try to select a 10.0% sample of non-residents.
BSIntId	Id of Bounded Structure of residence at last visit before Eligibility List created	<i>QuestionnaireAllocations.BoundedStructure</i>	12 – 16375 No Nulls	No Null or missing values (What is this set to for non-residents??)
VisitDate	Date of survey interview	Date of <i>BMFStatusObservations</i> Visit event	Date Jan 2011 to Jan 2011	No null/missing values
VisitType	Type of Visit	<i>Visits.Type</i>	RGL – Regular (??%) TRK – Tracking (?%) RFS – Refused Visit (?%) AVD - Avoided Null – ??%	
VisitTypeName	Label associated with previous variable code	<i>VisitTypes.Name</i>	Text string or Null	
HIVRefused	Refused test?	<i>BMFStatusObservationsHIVRefused</i>	Y – Yes (??%) N - N Null	One reason for many refusals is that many people already know their status, (or think they do)
HIVRefusedBy	Refused by	<i>BMFStatusObservationsHIVRefusedBy</i>	S - Self P - Partner H – HH head B – BS owner O - Other X – Not applicable Null	??% Null or Not applicable
HIVRefusedByName	Refused by	Label associated with previous variable's code	Text string	

HIV Survey 2011 Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
HIVRefusedBySpecify		<i>Text from 'If Refused by = 'Other' please specify</i>	Text string	Most Null or not applicable. Most of rest 'Mother'
HIVSampleAvailable		Derived from <i>BMFStatusObservations.HIVSampleId</i>	Y – Yes X – No, but there is a BMFStatusObs Null – No BMFStatus Obs.	
HIVResult	Sample result	<i>BMFStatusObservations.HIVResult</i>	P – Positive N – Negative I – Indeterminate M – Missing (i.e. sample lost) S – Insufficient volume to test X – Not Applicable Null	
HIVResultName	Label associated with codes in previous label	<i>HIVResultCodes.Description</i>	Text string	
PreferredPlaceToTest	There are many places to get an HIV test. Which is the best place for you to get tested?	<i>BMFStatusObservationExts. PreferredPlaceToTest</i>	E.G HM – Home CCT – Counselling Centre DKN – Don't know Etc (see next variable for full list and names)	
PreferredPlaceToTestName	Label associated with codes in previous variable	<i>PreferredPlacesToTest.Description</i>	Text string	
PreferredPlaceToTestSpecify	If 'Other'	<i>BMFStatusObservationExts. PreferredPlaceToTestSpecify</i>	Text string	
KnowsHIVStatus	Do you know your status from previous testing? Yes/No/Refused	<i>BMFStatusObservationExts. KnowsHIVStatus</i>	Y – Yes N – No R – Refused M - Missing X – Not applicable	

HIV Survey 2011 Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
WhenLastTested	When was the last time you had a HIV test?	<i>BMFStatusObservationExts. WhenLastTested</i>	6MY 6 months to 1 year ago L6M In last 6 months MYR More than a year ago MIS Missing NAD Not Applicable (i.e. pre-2010) RFS Refused	
WhenLastTestedName	Label associated with codes in previous variable	<i>WhenLastTesteds.Description</i>	Text string	
WhereLastTested	Where did you test the last time?	<i>BMFStatusObservationExts. WhereLastTested</i>	CCT At Counselling Centre CLC At Clinic HOM At home HOS At hospital MTU At Mobile Testing Unit PDR At Private Doctor OTH Other DKN Don't know RFS Refused MIS Missing	
WhereLastTestedName	Label associated with codes in previous variable	<i>WhereLastTesteds.Description</i>	Text string	
WhereLastTestedSpecify	If WhereLastTested = "Other"...	<i>BMFStatusObservationExts. WhereLastTestedSpecify</i>	Text string Null if not "Other"	
HeardAboutART	Have you ever heard about anti-retroviral treatment (ART)? Yes/No/Refused	<i>BMFStatusObservationExts.HeardAboutART</i>	Y – Yes N – No M – Missing R - Refused X – Not applicable	

HIV Survey 2011 Dataset Variable List

Variable Name	Description	Source in ACDIS database	Format/Codes/Special values	Notes/comments
BelievesARTImprovesHealth	Do you think ART can help people to improve their health?	<i>BMFStatusObservationExts.BelievesARTImprovesHealth</i>	Y – Yes N – No R – Refused M – Missing U – Don't know X – Not applicable	
KnowsWhereToObtainART	Do you know places where one could get ART? Yes/No/Refused	<i>BMFStatusObservationExts.KnowsWhereToObtainART</i>	As previous	
CanNamePlaceToObtainARTSpecify	...if 'Yes', where?	<i>BMFStatusObservationExts.CanNamePlaceToObtainARTSpecify</i>	Text string	

SQL:

```
/*
<Author>Colin Newell</Author>
<Date>23 Feb 2011</Date>
<Category>HIV Survey Dataset</Category>
<Notes>
Requested by: Core HIV dataset

Request: View for main HIV Survey dataset
</Notes>
<ChangeHistory>

  23 Feb 2011  Colin Newell          Original coding - copied from 2010

</ChangeHistory>
*/
ALTER VIEW vacHIV_2011
AS
WITH currwba
AS (SELECT
    nwba.BoundedStructure,
    nwba.Supervisor + nwba.FieldWorker + '-' + RIGHT('0' + CAST(nwba.Week AS varchar(2)), 2) as WeekBlock
FROM NewWeekBlockAssignments nwba
LEFT JOIN NewWeekBlocks nwbl ON nwba.Weekblock = nwbl.weekblock
LEFT JOIN Events se ON se.IntId = nwba.StartEvent

JOIN (SELECT
    nwba.BoundedStructure,
    MAX(se.AssignedDate) as MaxDate
FROM NewWeekBlockAssignments nwba
LEFT JOIN NewWeekBlocks nwbl ON nwba.Weekblock = nwbl.weekblock
LEFT JOIN Events se ON se.IntId = nwba.StartEvent
WHERE nwbl.RoundType = 2 -- i.e. B
GROUP BY nwba.BoundedStructure
) maxwb ON maxwb.BoundedStructure = nwba.BoundedStructure
AND maxwb.MaxDate = se.AssignedDate

WHERE nwbl.RoundType = 2 -- i.e. B
```

```

)

SELECT
  qa2.QuestionnaireAllocation AS QuestionnaireId,
  ds.StatusDescription as DocumentStatus,

  bmfso.BMFStatusObservation AS BMFStatusObservation,
  pc.reason AS PrematureCompletionReason,
  pcr.[Value] AS PrematureCompletionReasonName,
  pc.Comment AS PrematureCompletionOtherComment, -- mainly when Reason = 'OTH'

  qa2.RegisteredIndividual AS IIntID,
  ri.Sex AS Sex,
  se.AssignedDate AS DateOfBirth,
  qa2.Resident AS Resident,
  qa2.BoundedStructure AS BSIntID,
  ve.AssignedDate AS VisitDate,

  v.Type AS VisitType,
  vt.[Name] as VisitTypeName,

  bmfso.HIVRefused AS HIVRefused,
  bmfso.HIVRefusedBy AS HIVRefusedBy,
  hrbc.[Name] AS HIVRefusedByName,
  bmfso.HIVRefusedBySpecify AS HIVRefusedBySpecify,

  CASE
    WHEN bmfso.BMFStatusObservation IS NULL THEN Null
    WHEN bmfso.HIVSampleID IS NULL THEN 'X' -- Added cn 7jul06
    WHEN bmfso.HIVSampleID NOT LIKE '____-____-____' AND bmfso.HIVSampleID NOT LIKE '100[0-9][0-9][0-9][0-9]' THEN
'X' -- 2nd clause added cn 8jun10
    ELSE 'Y'
  END AS HIVSampleAvailable,

  bmfso.HIVResult AS HIVResult,
  hrc.[Description] AS HIVResultName,

  bmfso.CD4Count,
  bmfso.CD4Pct,

```

```

bmfso.CD4Comments,

bmfsoe.PreferredPlaceToTest,
ppt.Description AS PreferredPlaceToTestName,
bmfsoe.PreferredPlaceToTestSpecify,

bmfsoe.KnowsHIVStatus,
bmfsoe.WhenLastTested,
wnlt.Description AS WhenLastTestedName,
bmfsoe.WhereLastTested,
whlt.Description AS WhereLastTestedName,
bmfsoe.WhereLastTestedSpecify,

bmfsoe.HeardAboutART,
bmfsoe.BelievesARTImprovesHealth,
bmfsoe.KnowsWhereToObtainART,
bmfsoe.CanNamePlaceToObtainARTSpecify
FROM QuestionnaireAllocations qa
LEFT JOIN QuestionnaireAssignments qas ON qas.QuestionnaireAssignment = qa.QuestionnaireAssignment
LEFT JOIN Questionnaires q ON q.Questionnaire = qas.Questionnaire
LEFT JOIN RegisteredIndividuals ri ON ri.IntId = qa.RegisteredIndividual
LEFT JOIN Events se ON ri.Delivery = se.IntId
LEFT JOIN BoundedStructures bs ON bs.IntID = qa.BoundedStructure

LEFT JOIN QuestionnaireAllocations qa2 ON qa2.RegisteredIndividual = qa.RegisteredIndividual
AND qa2.boundedstructure = qa.boundedstructure -- added cn 6mar08 to solve
problems with merged indivs

LEFT JOIN QuestionnaireAssignments qas2 ON qas2.QuestionnaireAssignment = qa2.QuestionnaireAssignment
LEFT JOIN Questionnaires q2 ON q2.Questionnaire = qas2.Questionnaire
LEFT JOIN BMFStatusObservations bmfso ON bmfso.RegisteredIndividual = qa2.RegisteredIndividual
AND bmfso.Visit = qa2.Visit

LEFT JOIN PrematureCompletions pc ON pc.QuestionnaireAllocation = qa2.QuestionnaireAllocation
LEFT JOIN PrematureCompletionReasons pcr ON pcr.[Key] = pc.Reason

LEFT JOIN Visits v ON v.IntID = bmfso.Visit -- qa2.Visit tiny bugfix 26mar09
LEFT JOIN VisitTypes vt ON v.Type = vt.Code
LEFT JOIN Events ve ON bmfso.Visit = ve.IntId

```

```
LEFT JOIN BMFStatusObservationsExts bmfsoe ON bmfsoe.BMFStatusObservation = bmfso.BMFStatusObservation
LEFT JOIN HIVRefusedByCodes hrbc ON hrbc.Code = bmfso.HIVRefusedBy
LEFT JOIN HIVResultCodes hrc ON hrc.Code = bmfso.HIVResult
LEFT JOIN DocumentStatuses ds ON ds.DocumentStatus = qa2.DocumentStatus
LEFT JOIN PreferredPlacesToTest ppt ON ppt.Code = bmfsoe.PreferredPlaceToTest
LEFT JOIN WhenLastTesteds wnlts ON wnlts.Code = bmfsoe.WhenLastTested
LEFT JOIN WhereLastTesteds whlts ON whlts.Code = bmfsoe.WhereLastTested
WHERE qa.DSRound = 109
AND q.Acronym = 'BTB' -- = "Bundle Type B"
AND qa.InSample = 'Y'
AND qa2.DSRound = 109
AND LEFT(q2.Acronym, 3) = 'BMF' -- IN ('BMFv7', 'BMF-NRv7')
```