

Malawi - TAS TB Screening in the ART clinic 2015

Malawi Epidemiology and Intervention Research Unit

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Identification

SURVEY ID NUMBER

MWI-MEIRU-TB-TAS-2014-v01

TITLE

TAS TB Screening in the ART clinic 2015

COUNTRY

Name	Country code
Malawi	MWI

STUDY TYPE

Intervention Study

ABSTRACT

A detailed understanding of where, when and how Mycobacterium tuberculosis (Mtb) transmission is occurring in communities with a high HIV/tuberculosis burden is urgently required in order to effectively implement interventions to break the transmission cycle. Antiretroviral (ART) clinics are a potential area of high transmission, with many opportunities for infectious and vulnerable individuals to come together in close proximity especially as TB and HIV services become more integrated. Although ART reduces the risk of TB, risks remain raised, and about half the newly diagnosed HIV positive TB patients are already on ART. The extent to which Mtb transmission occurs in these clinics, and how much can be prevented by active screening is not known. Active screening should detect TB at an earlier stage in the disease, improving outcome and reducing transmission. This study will be based in an HIV-prevalent rural community in Malawi as part of a long-term population-based study of tuberculosis and will complement other ongoing studies examining transmission (eg NHSRC #944). The specific objectives are to institute regular intensive screening for TB in ART clinics; to identify the extent of transmission that has led to active disease in clinic attendees and their guardians; and to estimate the proportion of TB in the area that is attributable to transmission in these clinics. Isolates from all TB patients will have mycobacterial DNA extracted and subjected to strain identification and whole genome sequencing as part of broader epidemiological studies of TB (NHSRC # 424).

KIND OF DATA

Observational episodes

UNIT OF ANALYSIS

Individual, Household

Version

VERSION DESCRIPTION

- v1: Edited data, First version, for internal use only

VERSION DATE

2018-03-01

Scope

NOTES

TAS- L form - Identity check, TB symptom screen,

Coverage

GEOGRAPHIC COVERAGE

Karonga district

UNIVERSE

Individuals attending ART clinic areas, and their guardians, are the primary population for this study. We will continue to monitor all diagnosed TB cases (already approved under Protocol # 424) to identify individuals not found through ART screening.

Setting: whole of Karonga district

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Prof. Mia Crampin	London School of Hygiene and Tropical Medicine & MEIRU

PRODUCERS

Name	Abbreviation	Affiliation	Role
Dr Lumbani Munthali	LM	MEIRU/KPS	Co-applicant
Dr James Mpunga	JM	National TB Control Programme	Co-applicant
Dr Palwasha Khan	PK	London School of Hygiene and Tropical Medicine	Co-applicant
Dr Michael Kayange	MK	District Health Office, Karonga	Co-applicant
Prof Judith Glynn	JG	London School of Hygiene and Tropical Medicine	Co-applicant
KPS/MEIRU			Original Producer

FUNDING AGENCY/SPONSOR

Name	Abbreviation
Wellcome Trust, UK	WT-UK

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name
MEIRU Core datamanagement team

Data collection

DATES OF DATA COLLECTION

Start	End
2014-01-14	2018-06-26

DATA COLLECTION MODE

Face-to-face [f2f]

DATA COLLECTORS

Name	Abbreviation
Malawi Epidemiology and Intervention Research Unit	MEIRU

Questionnaires

QUESTIONNAIRES

All questionnaires and modules are provided as external resources.

Access policy

ACCESS CONDITIONS

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ACCESS AUTHORITY

Name
Malawi Epidemiology and Intervention Research Unit

ARCHIVE WHERE STUDY IS ORIGINALLY STORED

Karonga District

Metadata production

DDI DOCUMENT ID

DDI-MWI-MEIRU-TB-TAS-2014-v01

PRODUCERS

Name	Abbreviation	Affiliation	Role
Themba Chirwa	TC	MEIRU	Metadata Entry and Editing Officer
Malawi Epidemiology and Intervention Research Unit	MEIRU	MEIRU	Agency
Chifundo Kanjala	CK	MEIRU	Data Documentation project management
Elizabeth Nancy Munthali	ENM	MEIRU	Metadata Supervisor
Jacky Saul	JS	LSHTM and MEIRU	Production of the documentation used to create this DDI document
Keith Branson	KB	LSHTM and MEIRU	Production of the documentation used to create this DDI document

DATE OF METADATA PRODUCTION

2018-03-01

DDI DOCUMENT VERSION

version 1 (January 2018)

Data Dictionary

Data file	Cases	Variables
tas_tasl TAS identification Unique identifier STID+CNO	1400	21
tas_pvr TAS palm vein reader data Unique identifier STID	5983	7
tas_clinicvisit TAS clinic data Unique identifier STID+ VISITDT+ TIME_IN	29994	9

Data file: tas_tasl

TAS identification Unique identifier STID+CNO

Cases: 1400

Variables: 21

Variables

ID	Name	Label	Question
V424	version	Version	Version
V425	stid	Study identifier in Karonga and Lilongwe	Study identifier
V426	cno	Contact number in Karonga and Lilongwe	Contact number
V427	artclin	Current ART clinic	Current ART clinic
V428	artno	Malawi government ART number	Current government ART clinic number
V429	rsnform	Reason for filling form	Reason for filling form
V430	cough	Cough	Are you currently experiencing any of the following: cough?
V431	fevers	Fever	Are you currently experiencing any of the following: fever?
V432	nightsw	Night sweats	Are you currently experiencing any of the following: night sweats?
V433	wtloss	Weight loss	Are you currently experiencing any of the following: weight loss?
V434	sputtype	Sputum collection	Sputum collection
V435	basefoll	Sputum baseline/follow-up	Sputum baseline/follow-up
V436	intdate	Interview date	Interview date
V437	rcdr	Staffcode	Recorder
V438	codr	Coder	Coder
V439	chkr	Checker	Checker
V440	entryby	Entry by	Entry by
V441	updateby	Update by	Update by
V442	entrydate	Entry date	Entry date
V443	updatedate	Update date	Update date
V444	verified	Verified	Verified

Total: 21

Data file: tas_pvr

TAS palm vein reader data Unique identifier STID

Cases: 5983

Variables: 7

Variables

ID	Name	Label	Question
V445	stid	Study identifier	Study identifier
V446	initials	Initials	Initials
V447	sex	Sex	Sex
V448	yob	Year of Birth	Year of Birth
V449	reg_date	registration date	registration date
V450	upload_date	upload date	upload date
V451	update_date	update date	update date

Total: 7

Data file: tas_clinicvisit

TAS clinic data Unique identifier STID+ VISITDT+ TIME_IN

Cases: 29994

Variables: 9

Variables

ID	Name	Label	Question
V452	stid	Study identifier	Study identifier
V453	visitdt	Visit date	Visit date
V454	reason_clinic	Reason for coming to clinic	Reason for coming to clinic
V455	time_in	Time in clinic	Time in clinic
V456	time_out	Time out of clinic	Time out of clinic
V457	src_in	src_in arrival at clinic	src_in arrival at clinic
V458	src_out	src_out on leaving clinic	src_out on leaving clinic
V459	upload_date	upload date	upload date
V460	update_date	update date	update date

Total: 9

VERSION: Version**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

LITERAL QUESTION

Version

Others

NOTES

range 1:2

STID: Study identifier in Karonga and Lilongwe**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Study identifier

Others

NOTES

valid STID

Available in versions -, 1, 2

CNO: Contact number in Karonga and Lilongwe**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Contact number

Others

NOTES

valid CNO

Available in versions -, 1, 2

ARTCLIN: Current ART clinic

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Current ART clinic

Others

NOTES

021301 = Karonga or 020101 = Chilumba

Available in versions -, 1, 2

ARTNO: Malawi government ART number

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Width: 6 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Current government ART clinic number

Others

NOTES

range 0001:5000

Available in versions -, 1, 2

RSNFORM: Reason for filling form**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Reason for filling form

CATEGORIES

Value	Category	Cases	
1	ART TB screen	1280	91.4%
2	TB Suspect	120	8.6%

Others

NOTES

Available in versions -, 1, 2

COUGH: Cough**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you currently experiencing any of the following: cough?

CATEGORIES

Value	Category	Cases	
0	No	637	45.5%
1	Yes	759	54.2%
8	Unknown	4	0.3%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

FEVERS: Fever**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you currently experiencing any of the following: fever?

CATEGORIES

Value	Category	Cases	
0	No	915	65.4%
1	Yes	479	34.2%
8	Unknown	6	0.4%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

NIGHTSW: Night sweats**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you currently experiencing any of the following: night sweats?

CATEGORIES

Value	Category	Cases	
0	No	835	59.6%
1	Yes	558	39.9%
8	Unknown	7	0.5%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

WTLOSS: Weight loss

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Are you currently experiencing any of the following: weight loss?

CATEGORIES

Value	Category	Cases	
0	No	743	53.1%
1	Yes	649	46.4%
8	Unknown	8	0.6%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

SPUTTYPE: Sputum collection

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Sputum collection

CATEGORIES

Value	Category	Cases	
1	Spontaneous	994	71%

2	Induced	161	11.5%
3	Failed	245	17.5%
8	Unknown	0	0%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

BASEFOLL: Sputum baseline/follow-up

Data file: tas_tasl

Overview

Valid: 1151 Invalid: 249

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Sputum baseline/follow-up

CATEGORIES

Value	Category	Cases	
0	Baseline	948	82.4%
3	3 months	97	8.4%
5	5 months	106	9.2%
8	Unknown	0	0%
9	Missing	0	
Sysmiss		249	

Others

NOTES

Must be blank if version = 1 Must be blank if Reason for filling form (rsnform) <> 1

Available in versions -, 2

INTDATE: Interview date

Data file: tas_tasl

Overview

Valid: 1400

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Interview date

Others

NOTES

>= 22/10/2013 and <= current date

Available in versions -, 1, 2

RCDR: Staffcode

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Recorder

Others

NOTES

valid code in val_staff

Available in versions -, 1, 2

CODR: Coder

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0

Type: Discrete Width: 2 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Coder

Others

NOTES

valid code in val_staff or blank

Available in versions -, 1, 2

CHKR: Checker

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0
 Type: Discrete Width: 2 Range: - Format: character

Questions and instructions

LITERAL QUESTION
 Checker

Others

NOTES
 valid code in val_staff or blank
 Available in versions -, 1, 2

ENTRYBY: Entry by

Data file: tas_tasl

Overview

Valid: 1400 Invalid: 0
 Type: Discrete Width: 2 Range: - Format: character

Questions and instructions

LITERAL QUESTION
 Entry by

Others

NOTES
 Available in versions -, 1, 2

UPDATEBY: Update by

Data file: tas_tasl

Overview

Valid: 116 Invalid: 0
 Type: Discrete Width: 2 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Update by

Others

NOTES

Available in versions -, 1, 2

ENTRYDATE: Entry date

Data file: tas_tasl

Overview

Valid: 1400

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Entry date

Others

NOTES

Available in versions -, 1, 2

UPDATEDATE: Update date

Data file: tas_tasl

Overview

Valid: 116

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Update date

Others

NOTES

Available in versions -, 1, 2

VERIFIED: Verified**Data file:** tas_tasl**Overview**

Valid: 1400 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Verified

CATEGORIES

Value	Category	Cases	
0	No	0	0%
1	Yes	1400	100%
8	Unknown	0	0%
9	Missing	0	

Others

NOTES

Available in versions -, 1, 2

STID: Study identifier**Data file:** tas_pvr**Overview**

Valid: 5983 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Study identifier

Others

NOTES

Valid STID

INITIALS: Initials**Data file:** tas_pvr**Overview**

Valid: 5983 Invalid: 0

Type: Discrete Width: 4 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Initials

Others

NOTES

initials of person

SEX: Sex**Data file:** tas_pvr**Overview**

Valid: 5983 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Sex

CATEGORIES

Value	Category	Cases	
0	Male	2244	37.5%
1	Female	3739	62.5%
8	Unknown	0	0%
9	Missing	0	

YOB: Year of Birth**Data file:** tas_pvr**Overview**

Valid: 5983 Invalid: 0

Type: Discrete Decimal: 0 Width: 4 Range: 1926 - 9999 Format: Numeric

Questions and instructions

LITERAL QUESTION

Year of Birth

Others

NOTES

4 digit year of birth 9999 = unknown

REG_DATE: registration date**Data file:** tas_pvr**Overview**

Valid: 5983

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

registration date

UPLOAD_DATE: upload date**Data file:** tas_pvr**Overview**

Valid: 0

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

upload date

Others

NOTES

Date record uploaded from clinic database

UPDATE_DATE: update date

Data file: tas_pvr

Overview

Valid: 0

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

update date

Others

NOTES

Date record recorded as updated

STID: Study identifier**Data file:** tas_clinicvisit**Overview**

Valid: 29994 Invalid: 0

Type: Discrete Width: 7 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Study identifier

Others

NOTES

Valid STID

VISITDT: Visit date**Data file:** tas_clinicvisit**Overview**

Valid: 29994

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Visit date

Others

NOTES

Valid date

REASON_CLINIC: Reason for coming to clinic**Data file:** tas_clinicvisit**Overview**

Valid: 29994 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 9 Format: Numeric

Questions and instructions

LITERAL QUESTION

Reason for coming to clinic

CATEGORIES

Value	Category	Cases	
1	Antiretroviral Therapy	23063	76.9%
2	HIV Care Clinic	1667	5.6%
3	TB Patient	805	2.7%
4	HIV testing and counselling	1069	3.6%
5	Guardian	3002	10%
6	TB suspect	101	0.3%
7	???????	287	1%
8	Unknown	0	0%
9	Missing	0	

TIME_IN: Time in clinic**Data file:** tas_clinicvisit**Overview**

Valid: 29950

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Time in clinic

Others

NOTES

range 00:01:23:59

TIME_OUT: Time out of clinic**Data file:** tas_clinicvisit**Overview**

Valid: 29994

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

Time out of clinic

Others

NOTES

00:01:23:59 or 23:59 = no time_out filled

SRC_IN: src_in arrival at clinic

Data file: tas_clinicvisit

Overview

Valid: 20295 Invalid: 9699

Type: Discrete Decimal: 0 Width: 1 Range: - Format: Numeric

Questions and instructions

LITERAL QUESTION

src_in arrival at clinic

CATEGORIES

Value	Category	Cases	
1	Identified from palm vein reader	3296	16.2%
2	Identified from drop down list created from clinic database using name sex and year of birth	150	0.7%
3	Identified from typing in the person's stid	16849	83%
8	Unknown	0	0%
9	Missing	0	
Sysmiss		9699	

SRC_OUT: src_out on leaving clinic

Data file: tas_clinicvisit

Overview

Valid: 21242 Invalid: 8752

Type: Discrete Decimal: 0 Width: 1 Range: - Format: Numeric

Questions and instructions

LITERAL QUESTION

src_out on leaving clinic

CATEGORIES

Value	Category	Cases	
1	Identified from palm vein reader	2016	9.5%
2	Identified from drop down list created from clinic database using name sex and year of birth	1221	5.7%
3	Identified from typing in the person's stid	18005	84.8%

8	Unknown	0	0%
9	Missing	0	
Sysmiss		8752	

■ **UPLOAD_DATE: upload date**

Data file: tas_clinicvisit

Overview

Valid: 0

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

upload date

Others

NOTES

Date record uploaded from clinic database

■ **UPDATE_DATE: update date**

Data file: tas_clinicvisit

Overview

Valid: 0

Type: Discrete Width: 10 Range: - Format: character

Questions and instructions

LITERAL QUESTION

update date

Others

NOTES

Date record recorded as updated