South Africa - AHRI.Optimised electronic patient records to improve clinical monitoring of HIV-positive patients in rural South Africa (MONART Trial) 27 March 2020 to 30 June 2024

Sweetness H Dube

Report generated on: October 18, 2024

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Identification

SURVEY ID NUMBER
AHRI.MONART.MainStudy.2024.v1

TITLE
AHRI.Optimised electronic patient records to improve clinical monitoring of HIV-positive patients in rural South Africa (MONART Trial) 27 March 2020 to 30 June 2024

COUNTRY

Name	Country code
South Africa	ZA

ABSTRACT
In our formative research, analysis of antiretroviral treatment (ART) data manually entered in the Three Interlinked Electronic Registers (TIER.Net) showed poor viral load monitoring (VLM) and inadequate management of virological failure in HIV-positive patients on ART in rural KwaZulu-Natal, South Africa. ART interruption was high, with nearly half of patients falling out of care within 5 years of starting ART. Non-Nucleoside reverse transcriptase pre-treatment drug resistance exceeds 10% in the setting; the threshold required to trigger in a change in first-line ART using the public health approach. These factors are contributory to increasing HIV drug resistance (HIVDR) in this setting. HIVDR is associated with increased morbidity and mortality with the risk of transmitting drug-resistant HIV to sexual partners. We presented these findings to healthcare providers, policy makers and community representatives with brainstorming of health system challenges and potential interventions. This study aims to complement these findings by investigating the clinical and process impediments in VLM within the health system and to develop a quality improvement package (QIP) to address the gaps. The stakeholders recommended such QIP would utilise the viral load (VL) champion model, a named healthcare provider who would be the focal point for ensuring proper administrative management of viral load tests and results through identification of those who need tests and triaging of results for action. This QIP will be supported by technological enhancement of the routine clinic-based TIER.Net software which will allow daily automatic import of results from the National Health Service Laboratory (NHLS) to TIER.Net and development of a dashboard system to support VLM. In addition, results of contact tracing will be recorded and followed up pro-actively if not initially successful.

We will evaluate the effectiveness of these interventions compared to current care for improving VLM and virological suppression using an innovative effectiveness-implementation hybrid cluster-randomised design in 10 clinics. A within-trial health economics analysis will be undertaken using recommended methods to examine the cost-effectiveness of the intervention compared to standard care. Finally, we will use a mixed-methods approach to undertake a process evaluation assessing acceptability, fidelity, adaptation and contexts in the implementation of the interventions.

Design: Cluster randomised trial of 10 primary health care clinics (5 x 2) located in the Africa Health Research Institute (AHRI) demographic surveillance area, uMkhanyakude district, South Africa.

Population and Intervention: Quality improvement package (QIP) delivered to healthcare staff including augmentation of an existing electronic ART database (TIER.Net)
Aim: We aim to demonstrate that a staff-centred QIP and technological augmentation of TIER.Net would result in optimal VLM of patients on ART, prompt clinical management of virological failure and an overall improvement in virological suppression

Objectives
1. To identify health system specific gaps in VLM.
2. To develop and train healthcare provider on a QIP using the VL champion model
3. To augment TIER.Net with a dashboard system that includes the latest laboratory results imported from the NHLS.
4. To evaluate the effectiveness of the QIP.
5. To evaluate the cost and cost effectiveness of the intervention compared to standard care
6. To undertake a process evaluation assessing acceptability, fidelity, adaptation and contexts in the implementation of the intervention.
7. To write up a best practice document, describing what is required and operationally, recommendations on how to successfully implement the QIP for a national scale-up if proven successful

Major variables: As documented in study questionnaire

KIND OF DATA
Clinical Data

UNIT OF ANALYSIS
Individuals within a cluster defined by clinics

Version

VERSION DESCRIPTION
v1.0.0

Scope

TOPICS

Topic	Vocabulary	URI
HIV	Africa Health Research Institute	www.ahri.org

KEYWORDS

Keyword	Vocabulary	URI
HIV, viral load monitoring, virological failure, drug resistance, viral load champion	Africa Health Research Institute	www.ahri.org

Coverage

GEOGRAPHIC COVERAGE
14 clinics in Hlabisa subdistrict

UNIVERSE
People living with HIV on antiretroviral therapy

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Iwuji Collins	AHRI, Brighton and Sussex Medical School, University of Sussex, Brightin, UK

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Royal Academy of Engineering	RAEng	Funder

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
Khumalo Sfundo	Africa Health Research Institute	Data Manager

Mazibuko Lusanda	Africa Health Research Institute	Statistician

Sampling

SAMPLING PROCEDURE
Cluster randomised sampling

Data collection

DATES OF DATA COLLECTION

Start	End
2023-02-01	2024-06-30

Access policy

ACCESS CONDITIONS
Access to the data requires accurate completion of the online data access application form accessible on the AHRI Data repository(<https://data.ahri.org/>). Data users are required to abide by the data use conditions stipulated on the application for access to the data. Failure to do so may result in their data access privileges being revoked by the Data Custodian. In order to recognise the effort and intellectual contributions of AHRI investigators in producing and curating the data, users of AHRI data must acknowledge the source of the data and abide by the terms and conditions under which the data is accessed and must cite the dataset in publication using the citation provided as part of this documentation. All analytical datasets published on the AHRI Data Repository are assigned digital object identifier (DOIs) and the DOIs can be found on the Data Repository under Study Description tab - Access policy. AHRI data users are required to always cite the dataset using the relevant DOI.

CITATION REQUIREMENTS
Iwuji, C. (2024). AHRI.Optimised electronic patient records to improve clinical monitoring of HIV-positive patients in rural South Africa (MONART Trial) 27 March 2020 to 30 June 2024 [Data set]. Africa Health Research Institute. DOI:https://doi.org/10.23664/AHRI.MONART.MAINSTUDY.2024

Metadata production

DDI DOCUMENT ID
DDI.AHRI.MONART.MainStudy.2024.v1

PRODUCERS

Name	Abbreviation
Africa Health Research Institute	AHRI

Data Dictionary

Data file	Cases	Variables
AHRI.MONART.MainStudy.2024.v1	4200	69

Data file: AHRI.MONART.MainStudy.2024.v1

Cases:	4200
Variables:	69

Variables

ID	Name	Label	Question
V159	pid	PID	
V160	event	redcap_event	
V161	sex	Sex of the participant	
V162	facility	Clinic	
V163	pd_calc_age	Calculated age	
V164	personal_information_complete	Complete?	
V165	dq_artinitiationdate	Date of ART initiation:	
V166	dq_endchartdate	Date of Last attendance prior intervention:	
V167	dq_start_datechart_rev	Start date of chart review (calculated automatically bysubtracting 15 months fro	
V168	dq_vl_available	Are viral load results available?	
V169	dq_outcome_yn	Is there an outcome?	
V170	dq_outcome	What is an outcome?	
V171	dq_outcome_date	Date of [dq_outcome]	
V172	dq_art_code_tier	ART treatment code in Tier	
V173	dq_art_other	Other ART treatment in Tier	
V174	dq_datacollectiondate	Date of data Collection:	
V175	dq_vl1date	Date of VL1 test	
V176	dq_vl1result	What is the result of VL1?	
V177	dq_vl_other_1	Are there other VL documented in Tier	
V178	dq_vl2date	Date of VL2 test:	
V179	dq_vl2results	What is the result of VL2?	
V180	dq_vl_other_2	Are there other VL documented in Chart	
V181	dq_vl3date	Date of VL3:	
V182	dq_vl3results	What is the result of VL3?	
V183	dq_vl_other_3	Are there other VL documented in Chart	
V184	dq_vl4date	Date of VL4:	
V185	dq_vl4results	What is the result of VL4?	
V186	dq_vl_other_4	Are there other VL documented in Chart	
V187	dq_vl5date	Date of VL5:	
V188	dq_vl5results	What is the result of VL5?	
V189	data_extraction_ques_v_0	Complete?	
V190	dqc_start_datechart_rev	Start date of chart review (calculated automatically bysubtracting 15 months fro	
V191	dqc_missingfile	Is the clinical chart missing?	
V192	dqc_outcome_yn	Is there an outcome?	
V193	dqc_outcome_2	What is an outcome?	
V194	dq_outcome_date_2	Date of [dqc_outcome_2]	
V195	dqc_art_code_chart	ART treatment code in Chart	

ID	Name	Label	Question
V196	dqc_art_other	Other ART treatment in Chart	
V197	dqc_datacollectiondate	Date of data Collection:	
V198	dqc_wastherevl1measure	Is there an evidence of VL1 blood test request documented on chart?	
V199	dqc_vl1date	Date of VL1 test	
V200	dqc_vl1resultavailable	Is VL1 result written in the chart?	
V201	dqc_vl1result	What is the result of VL1?	
V202	dqc_vl1labcopy	Lab copy of VL1 filed in chart:	
V203	dq_vl_other_1_v2	Are there other VL documented in Chart	
V204	dqc_wastherevl2measure	Is there an evidence of VL2 blood test request documented on chart?	
V205	dqc_vl2date	Date of VL2 test:	
V206	dqc_vl2resultavailable	Is VL2 result written in the chart?	
V207	dqc_vl2results	What is the result of VL2?	
V208	dqc_vl2labcopy	Lab copy of VL2 filed in chart:	
V209	dq_vl_other_2_v2	Are there other VL documented in Chart	
V210	dqc_wastherevl3measure	Is there an evidence of VL3 blood test request documented on chart?	
V211	dqc_vl3date	Date of VL3:	
V212	dqc_vl3resultavailable	Is VL3 result written in the chart?	
V213	dqc_vl3results	What is the result of VL3?	
V214	dqc_vl3labcopy	Lab copy of VL3 filed in chart:	
V215	dq_vl_other_3_v2	Are there other VL documented in Chart	
V216	dqc_wastherevl4measure	Is there an evidence of VL4 blood test request documented on chart?	
V217	dqc_vl4date	Date of VL4:	
V218	dqc_vl4resultavailable	Is VL4 result written in the chart?	
V219	dq_vl4results_v2	What is the result of VL4?	
V220	dqc_vl4labcopy	Lab copy of VL4 filed in chart:	
V221	dq_vl_other_4_v2	Are there other VL documented in Chart	
V222	dqc_wastherevl5measure	Is there an evidence of VL5 blood test request documented on chart?	
V223	dqc_vl5date	Date of VL5:	
V224	dqc_vl5resultavailable	Is VL5 result written in the chart?	
V225	dqc_vl5results	What is the result of VL5?	
V226	dqc_vl5labcopy	Lab copy of VL5 filed in chart:	
V227	data_extraction_ques_v_1	Complete?	

Total: 69

PID: PID

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Width: 8 Range: - Format: character

Others

NOTES
subjected to a carryforward operation

EVENT: redcap_event

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 9 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Baseline	2100	50%
2	Follow_Up	2100	50%

SEX: Sex of the participant

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 9 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	1080	25.7%
2	Female	3120	74.3%

FACILITY: Clinic

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 11 Range: 1 - 14 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Ezwenelisha	300	7.1%
2	Gunjaneni	300	7.1%
3	Hluhluwe	300	7.1%
4	KwaMsane	300	7.1%
5	Macabuzela	300	7.1%
6	Machibini	300	7.1%
7	Madwaleni	300	7.1%
8	Mpembeni	300	7.1%
9	Mpukunyoni	300	7.1%
10	Mtubatuba	300	7.1%
11	Nkundusi	300	7.1%
12	Ntondweni	300	7.1%
13	Sipho Zungu	300	7.1%
14	Somkhele	300	7.1%

PD_CALC_AGE: Calculated age

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0 Minimum: 17 Maximum: 90 Mean: 43.561 Standard deviation: 12.373
Type: Continuous Decimal: 0 Width: 8 Range: 17 - 90 Format: Numeric

Others

NOTES
subjected to a carryforward operation

PERSONAL_INFORMATION_COMPLETE: Complete?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Incomplete	0	0%
1	Unverified	0	0%
2	Complete	4200	100%

Others

NOTES
subjected to a carryforward operation

DQ_ARTINITIATIONDATE: Date of ART initiation:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Minimum: 2002-01-16 Maximum: 2022-05-16
Type: Discrete Width: 11 Range: - Format: character

DQ_ENDCHARTDATE: Date of Last attendance prior intervention:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Minimum: 2023-03-01 Maximum: 2023-05-31
Type: Discrete Width: 11 Range: - Format: character

DQ_START_DATECHART_REV: Start date of chart review (calculated automatically bysubtracting 15 months fro

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Minimum: 2021-12-01 Maximum: 2022-03-02
Type: Discrete Width: 11 Range: - Format: character

DQ_VL_AVAILABLE: Are viral load results available?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4198 Invalid: 2
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	3369	80.3%
2	No	829	19.7%
Sysmiss		2	

DQ_OUTCOME_YN: Is there an outcome?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 604 Invalid: 3596
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	105	17.4%
2	No	499	82.6%
Sysmiss		3596	

DQ_OUTCOME: What is an outcome?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 105 Invalid: 4095
Type: Discrete Decimal: 0 Width: 14 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Transfer Out	67	63.8%
2	Lost To Follow	28	26.7%
3	Death	10	9.5%

Sysmiss		4095	

DQ_OUTCOME_DATE: Date of [dq_outcome]

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 105 Invalid: 4095 Minimum: 1892950659000 Maximum: 2032110652000 Mean: 2012602004723.81
Standard deviation: 15561078550.491
Type: Continuous Decimal: 0 Width: 11 Range: 1892950659000 - 2032110652000 Format: Numeric

DQ_ART_CODE_TIER: ART treatment code in Tier

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4187 Invalid: 13
Type: Discrete Decimal: 0 Width: 67 Range: 1 - 95 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	TDF (Tenofovir)+3TC (Lamuvidine)+DTG (Dolutegravir) = 1T30	3950	94.3%
2	TDF(Tenofovir)+3TC (Lamuvidine)+EFV (Efavirenz) = 1T3E	6	0.1%
3	TDF (Tenofovir)+FTC (Emtricitabine)+EFV (Efavirenz) = 1TFE	116	2.8%
4	AZT (Zidovudine)+3TC (Lamuvidine)+EFV (Efavirenz) = 1Z3E	11	0.3%
5	ABC (Abacavir)+3TC (Lamuvidine)+EFV (Efavirenz) = 1A3E	15	0.4%
6	AZT (Zidovudine)+3TC (Lamuvidine)+LPV/r (Lopinavir/Ritonavir)= 1Z3L	18	0.4%
7	ABC (Abacavir)+3TC (Lamuvidine)+LPV/r (Lopinavir/Ritonavir)= 1Z3L	3	0.1%
95	Other	68	1.6%
Sysmiss		13	

DQ_ART_OTHER: Other ART treatment in Tier

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 68 Invalid: 0
Type: Discrete Width: 20 Range: - Format: character

DQ_DATACOLLECTIONDATE: Date of data Collection:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4188 Invalid: 12 Minimum: 2004428833000 Maximum: 2034753388000 Mean: 2020261688579.75
Standard deviation: 10621686290.56
Type: Continuous Decimal: 0 Width: 11 Range: 2004428833000 - 2034753388000 Format: Numeric

DQ_VL1DATE: Date of VL1 test

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3370 Minimum: 2021-12-09 Maximum: 2024-06-20
Type: Discrete Width: 11 Range: - Format: character

DQ_VL1RESULT: What is the result of VL1?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3369 Invalid: 831 Minimum: 18 Maximum: 3460000 Mean: 3801.638 Standard deviation: 77935.282

Type: Continuous Decimal: 0 Width: 12 Range: 18 - 3460000 Format: Numeric

DQ_VL_OTHER_1: Are there other VL documented in Tier

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3365 Invalid: 835
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	881	26.2%
2	No	2484	73.8%
Sysmiss		835	

DQ_VL2DATE: Date of VL2 test:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 881 Minimum: 2021-12-09 Maximum: 2024-05-30
Type: Discrete Width: 11 Range: - Format: character

DQ_VL2RESULTS: What is the result of VL2?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 880 Invalid: 3320 Minimum: 19 Maximum: 3770000 Mean: 7931.638 Standard deviation: 130492.253

Type: Continuous Decimal: 0 Width: 12 Range: 19 - 3770000 Format: Numeric

DQ_VL_OTHER_2: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 876 Invalid: 3324
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	142	16.2%
2	No	734	83.8%
Sysmiss		3324	

DQ_VL3DATE: Date of VL3:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 142 Minimum: 2021-12-29 Maximum: 2024-02-02
Type: Discrete Width: 11 Range: - Format: character

DQ_VL3RESULTS: What is the result of VL3?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 141 Invalid: 4059 Minimum: 19 Maximum: 591000 Mean: 16425.489 Standard deviation: 77691.475

Type: Continuous Decimal: 0 Width: 12 Range: 19 - 591000 Format: Numeric

DQ_VL_OTHER_3: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 141 Invalid: 4059
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	22	15.6%
2	No	119	84.4%
Sysmiss		4059	

DQ_VL4DATE: Date of VL4:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 22 Minimum: 2021-12-10 Maximum: 2022-09-14
Type: Discrete Width: 11 Range: - Format: character

DQ_VL4RESULTS: What is the result of VL4?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 22 Invalid: 4178 Minimum: 19 Maximum: 375000 Mean: 37101.545 Standard deviation: 108449.834

Type: Continuous Decimal: 0 Width: 12 Range: 19 - 375000 Format: Numeric

DQ_VL_OTHER_4: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 22 Invalid: 4178
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	6	27.3%
2	No	16	72.7%
Sysmiss		4178	

DQ_VL5DATE: Date of VL5:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 6 Minimum: 2022-01-06 Maximum: 2022-06-27
Type: Discrete Width: 11 Range: - Format: character

DQ_VL5RESULTS: What is the result of VL5?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 6 Invalid: 4194 Minimum: 19 Maximum: 310000 Mean: 77365 Standard deviation: 119844.858
Type: Continuous Decimal: 0 Width: 12 Range: 19 - 310000 Format: Numeric

DATA_EXTRACTION_QUES_V_0: Complete?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Incomplete	0	0%
1	Unverified	0	0%
2	Complete	4200	100%

DQC_START_DATECHART_REV: Start date of chart review (calculated automatically bysubtracting 15 months fro

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Minimum: 2021-12-01 Maximum: 2022-03-02

Type: Discrete Width: 11 Range: - Format: character

DQC_MISSINGFILE: Is the clinical chart missing?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4199 Invalid: 1
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	586	14%
2	No	3613	86%
Sysmiss		1	

DQC_OUTCOME_YN: Is there an outcome?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2047 Invalid: 2153
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	18	0.9%
2	No	2029	99.1%
Sysmiss		2153	

DQC_OUTCOME_2: What is an outcome?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 18 Invalid: 4182
Type: Discrete Decimal: 0 Width: 14 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Transfer Out	13	72.2%
2	Lost To Follow	2	11.1%
3	Death	3	16.7%
Sysmiss		4182	

DQ_OUTCOME_DATE_2: Date of [dqc_outcome_2]

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 18 Invalid: 4182 Minimum: 1915182507000 Maximum: 2031135807000 Mean: 2012695498000
Standard deviation: 25564590323.194
Type: Continuous Decimal: 0 Width: 11 Range: 1915182507000 - 2031135807000 Format: Numeric

DQC_ART_CODE_CHART: ART treatment code in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3606 Invalid: 594
Type: Discrete Decimal: 0 Width: 67 Range: 1 - 95 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	TDF (Tenofovir)+3TC (Lamuvidine)+DTG (Dolutegravir) = 1T30	3459	95.9%
2	TDF(Tenofovir)+3TC (Lamuvidine)+EFV (Efavirenz) = 1T3E	46	1.3%
3	TDF (Tenofovir)+FTC (Emtricitabine)+EFV (Efavirenz) = 1TFE	42	1.2%
4	AZT (Zidovudine)+3TC (Lamuvidine)+EFV (Efavirenz) = 1Z3E	5	0.1%
5	ABC (Abacavir)+3TC (Lamuvidine)+EFV (Efavirenz) = 1A3E	4	0.1%
6	AZT (Zidovudine)+3TC (Lamuvidine)+LPV/r (Lopinavir/Ritonavir)= 1Z3L	11	0.3%
7	ABC (Abacavir)+3TC (Lamuvidine)+LPV/r (Lopinavir/Ritonavir)= 1Z3L	2	0.1%
95	Other	37	1%
Sysmiss		594	

DQC_ART_OTHER: Other ART treatment in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 37 Invalid: 0
Type: Discrete Width: 31 Range: - Format: character

DQC_DATACOLLECTIONDATE: Date of data Collection:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4199 Invalid: 1 Minimum: 2004078883000 Maximum: 2036735092000 Mean: 2018615642793.05
Standard deviation: 13406266531.443
Type: Continuous Decimal: 0 Width: 11 Range: 2004078883000 - 2036735092000 Format: Numeric

DQC_WASTHEREVL1MEASURE: Is there an evidence of VL1 blood test request documented on chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3602 Invalid: 598
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	2610	72.5%
2	No	992	27.5%
Sysmiss		598	

DQC_VL1DATE: Date of VL1 test

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3020 Minimum: 2021-12-13 Maximum: 2024-06-18
Type: Discrete Width: 11 Range: - Format: character

DQC_VL1RESULTAVAILABLE: Is VL1 result written in the chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3598 Invalid: 602
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	574	16%
2	No	3024	84%
Sysmiss		602	

DQC_VL1RESULT: What is the result of VL1?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2564 Invalid: 1636 Minimum: 0 Maximum: 1890000 Mean: 1621.837 Standard deviation: 39696.126

Type: Continuous Decimal: 0 Width: 12 Range: 0 - 1890000 Format: Numeric

DQC_VL1LABCOPY: Lab copy of VL1 filed in chart:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3611 Invalid: 589
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	2433	67.4%
2	No	1178	32.6%
Sysmiss		589	

DQ_VL_OTHER_1_V2: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 3603 Invalid: 597
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	650	18%
2	No	2953	82%
Sysmiss		597	

DQC_WASTHEREVL2MEASURE: Is there an evidence of VL2 blood test request documented on chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 649 Invalid: 3551
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	571	88%
2	No	78	12%
Sysmiss		3551	

DQC_VL2DATE: Date of VL2 test:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 649 Minimum: 2021-12-09 Maximum: 2024-05-28
Type: Discrete Width: 11 Range: - Format: character

DQC_VL2RESULTAVAILABLE: Is VL2 result written in the chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 648 Invalid: 3552
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	81	12.5%
2	No	567	87.5%
Sysmiss		3552	

DQC_VL2RESULTS: What is the result of VL2?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 585 Invalid: 3615 Minimum: 0 Maximum: 1620000 Mean: 4726.588 Standard deviation: 68600.742
Type: Continuous Decimal: 0 Width: 12 Range: 0 - 1620000 Format: Numeric

DQC_VL2LABCOPY: Lab copy of VL2 filed in chart:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 652 Invalid: 3548
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	571	87.6%
2	No	81	12.4%
Sysmiss		3548	

DQ_VL_OTHER_2_V2: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 652 Invalid: 3548
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	79	12.1%
2	No	573	87.9%

Sysmiss		3548	

DQC_WASTHEREVL3MEASURE: Is there an evidence of VL3 blood test request documented on chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 80 Invalid: 4120
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	68	85%
2	No	12	15%
Sysmiss		4120	

DQC_VL3DATE: Date of VL3:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 79 Minimum: 2020-07-08 Maximum: 2024-04-26
Type: Discrete Width: 11 Range: - Format: character

DQC_VL3RESULTAVAILABLE: Is VL3 result written in the chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 79 Invalid: 4121
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	12	15.2%
2	No	67	84.8%
Sysmiss		4121	

DQC_VL3RESULTS: What is the result of VL3?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 75 Invalid: 4125 Minimum: 0 Maximum: 375000 Mean: 9286.987 Standard deviation: 46287.875
Type: Continuous Decimal: 0 Width: 12 Range: 0 - 375000 Format: Numeric

DQC_VL3LABCOPY: Lab copy of VL3 filed in chart:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 79 Invalid: 4121
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	76	96.2%
2	No	3	3.8%
Sysmiss		4121	

DQ_VL_OTHER_3_V2: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 78 Invalid: 4122
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	9	11.5%
2	No	69	88.5%
Sysmiss		4122	

DQC_WASTHEREVL4MEASURE: Is there an evidence of VL4 blood test request documented on chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 9 Invalid: 4191
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	8	88.9%
2	No	1	11.1%
Sysmiss		4191	

DQC_VL4DATE: Date of VL4:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 9 Minimum: 2022-01-06 Maximum: 2023-09-18
Type: Discrete Width: 11 Range: - Format: character

DQC_VL4RESULTAVAILABLE: Is VL4 result written in the chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 8 Invalid: 4192
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	3	37.5%
2	No	5	62.5%
Sysmiss		4192	

DQ_VL4RESULTS_V2: What is the result of VL4?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 9 Invalid: 4191 Minimum: 19 Maximum: 310000 Mean: 39821.556 Standard deviation: 101874.508
Type: Continuous Decimal: 0 Width: 12 Range: 19 - 310000 Format: Numeric

DQC_VL4LABCOPY: Lab copy of VL4 filed in chart:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 9 Invalid: 4191
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	8	88.9%
2	No	1	11.1%
Sysmiss		4191	

DQ_VL_OTHER_4_V2: Are there other VL documented in Chart

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 9 Invalid: 4191
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	2	22.2%
2	No	7	77.8%
Sysmiss		4191	

DQC_WASTHEREVL5MEASURE: Is there an evidence of VL5 blood test request documented on chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2 Invalid: 4198
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	2	100%
2	No	0	0%
Sysmiss		4198	

DQC_VL5DATE: Date of VL5:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2 Minimum: 2022-03-25 Maximum: 2023-06-20
Type: Discrete Width: 11 Range: - Format: character

DQC_VL5RESULTAVAILABLE: Is VL5 result written in the chart?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2 Invalid: 4198
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	0	0%
2	No	2	100%
Sysmiss		4198	

DQC_VL5RESULTS: What is the result of VL5?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2 Invalid: 4198 Minimum: 141 Maximum: 385000 Mean: 192570.5 Standard deviation: 272136.409
Type: Continuous Decimal: 0 Width: 12 Range: 141 - 385000 Format: Numeric

DQC_VL5LABCOPY: Lab copy of VL5 filed in chart:

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 2 Invalid: 4198
Type: Discrete Decimal: 0 Width: 8 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Yes	2	100%
2	No	0	0%
Sysmiss		4198	

DATA_EXTRACTION_QUES_V_1: Complete?

Data file: AHRI.MONART.MainStudy.2024.v1

Overview

Valid: 4200 Invalid: 0
Type: Discrete Decimal: 0 Width: 10 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	Incomplete	0	0%
1	Unverified	0	0%
2	Complete	4200	100%

Download related resources

Technical documents

DDI:MONART Main Study

Title	DDI:MONART Main Study
Author(s)	Sweetness H Dube
Date	18/10/2024
Country	South Africa
Language	English
Publisher(s)	Sweetness H Dube
Filename	AHRI.MONART.MainStudy.2024.v1.pdf