

South Africa - AHRI.HIS- Admissions.Release 2020-10

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Overview

Identification

ID NUMBER
AHRI.HIS01-01-Admissions.202010.v7

Version

VERSION DESCRIPTION
V7.0.0

Overview

ABSTRACT

The Hospital Information System(HIS) dataset contains hospital records of individuals who were admitted and discharged at Hlabisa Hospital between 01 January 2011 and 15 April 2019. The data contains one record per hospital admission for patients. Women admitted for normal vaginal delivery and their babies are not included in this dataset.

Hlabisa hospital is located in uMkhanyakude district and is situated in the north-west of the Hluhluwe /Umfolozi Game Reserve. The hospital serves communities in the Hlabisa, Mtubatuba and part of the big five municipalities. There are 17 clinics which fall under the hospital.

KIND OF DATA
Patients admissions and discharges

UNITS OF ANALYSIS
Hospital admission

TOPICS

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

KEYWORDS
Hospital admissions, hospital discharges, hospital diagnosis, hospital information system

Coverage

GEOGRAPHIC COVERAGE
Hlabisa, Mtubatuba and part of the big five municipalities.

UNIVERSE
Individuals admitted and discharged at the Hlabisa hospital

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Kobus Herbst	Africa Health Research Institute; South African Population Research Infrastructure Network

Thobeka Mngomezulu	Africa Health Research Institute
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OTHER PRODUCER(S)

Name	Affiliation	Role
Africa Health Research Institute		

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Department of Health		
Hlabisa hospital		
Patients admitted at the Hlabisa hospital		

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Africa Health Research Institute	AHRI		

DDI DOCUMENT ID

DDI.HIS01-01.Admissions.202010.v7

Sampling

No content available

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2011-01-01	2020-09-30	N/A

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

HIS01-01 Admissions

Content

Cases	74173
Variable(s)	51
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V103	PatientId	Unique patient identifier	contin	numeric	
V104	Sex	Patient gender	discrete	numeric	
V105	DoB	Date of birth	discrete	character	
V106	LocalArea	Local area of residence	discrete	character	
V107	Isigodi	Isigodi of residence	discrete	character	
V108	NearestClinic	Nearest to place of residence	discrete	numeric	
V109	AdmissionId	Unique admission identifier	contin	numeric	
V110	AdmissionDate	Date of admission	discrete	character	
V111	AgeAtAdmission	Age in completed yrs on admission	contin	numeric	
V112	AgeDays	Age in days, if age=0	contin	numeric	
V113	AdmissionWard	Admission ward	discrete	numeric	
V114	AdmissionDoctor	Admitting doctor code	contin	numeric	
V115	DischargeDate	Date of discharge	discrete	character	
V116	DischargeStatus	Status on discharge	discrete	numeric	
V117	DischargeDoctor	Discharge doctor code	contin	numeric	
V118	LOS	Length of Stay (days)	contin	numeric	
V119	LOSH	Length of Stay (hours), if LOS=0	contin	numeric	
V120	HIVStatus	HIV Status on admission	discrete	numeric	
V121	OnART	On ART prior to admission	discrete	numeric	
V122	ARTDateStarted	Date on which ART was started	discrete	character	
V123	HIVTest	Latest HIV test in hospital result	discrete	numeric	
V124	LatestCD4	Latest in hospital CD4 count	contin	numeric	
V125	CD4Date	Date on which CD4 was done	discrete	character	
V126	ADxType1	Admission diagnosis 1 type	discrete	numeric	
V127	ADx1	Admission diagnosis 1 ICD10 code	discrete	character	
V128	ADxType2	Admission diagnosis 2 type	discrete	numeric	
V129	ADx2	Admission diagnosis 2 ICD10 code	discrete	character	
V130	ADxType3	Admission diagnosis 3 type	discrete	numeric	

V131	ADx3	Admission diagnosis 3 ICD10 code	discrete	character
V132	ADxType4	Admission diagnosis 4 type	discrete	numeric
V133	ADx4	Admission diagnosis 4 ICD10 code	discrete	character
V134	ADxType5	Admission diagnosis 5 type	discrete	numeric
V135	ADx5	Admission diagnosis 5 ICD10 code	discrete	character
V136	ADxType6	Admission diagnosis 6 type	discrete	numeric
V137	ADx6	Admission diagnosis 6 ICD10 code	discrete	character
V138	DDxType1	Discharge diagnosis 1 type	discrete	numeric
V139	DDx1	Discharge diagnosis 1 ICD10 code	discrete	character
V140	DDxType2	Discharge diagnosis 2 type	discrete	numeric
V141	DDx2	Discharge diagnosis 2 ICD10 code	discrete	character
V142	DDxType3	Discharge diagnosis 3 type	discrete	numeric
V143	DDx3	Discharge diagnosis 3 ICD10 code	discrete	character
V144	DDxType4	Discharge diagnosis 4 type	discrete	numeric
V145	DDx4	Discharge diagnosis 4 ICD10 code	discrete	character
V146	DDxType5	Discharge diagnosis 5 type	discrete	numeric
V147	DDx5	Discharge diagnosis 5 ICD10 code	discrete	character
V148	DDxType6	Discharge diagnosis 6 type	discrete	numeric
V149	DDx6	Discharge diagnosis 6 ICD10 code	discrete	character
V150	ACDISIntId	Surveillance individual identifier	contin	numeric
V151	ARTemisPersonNo	ARTemis individual identifier	contin	numeric
V152	TheatreProcedureCode	Theatre Procedure Code	discrete	character
V153	AnaestheticCode	Anaesthetic Code	discrete	numeric

Unique patient identifier (PatientId)

File: HIS01-01 Admissions

Overview

Type: Continuous	Valid cases: 74173
Format: numeric	Invalid: 0
Width: 12	Minimum: 15
Decimals: 0	Maximum: 97340
Range: 15-97340	Mean: 41483.1
	Standard deviation: 30813.7

Patient gender (Sex)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 74173
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 0-9	

Date of birth (DoB)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 74173
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Local area of residence (LocalArea)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 74173
Format: character	Invalid: 0
Width: 25	

Isigodi of residence (Isigodi)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 74148
Format: character	Invalid: 0
Width: 25	

Nearest to place of residence (NearestClinic)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-22

Valid cases: 74173
 Invalid: 0

Unique admission identifier (AdmissionId)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 16-110559

Valid cases: 74173
 Invalid: 0
 Minimum: 16
 Maximum: 110559
 Mean: 50537.7
 Standard deviation: 35393.8

Date of admission (AdmissionDate)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 74173
 Minimum: NaN
 Maximum: NaN

Age in completed yrs on admission (AgeAtAdmission)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: -4-118

Valid cases: 74173
 Invalid: 0
 Minimum: -4
 Maximum: 118
 Mean: 28.7
 Standard deviation: 20.8

Age in days, if age=0 (AgeDays)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-365

Valid cases: 7571
 Invalid: 66602
 Minimum: 0
 Maximum: 365
 Mean: 100
 Standard deviation: 111.3

Admission ward (AdmissionWard)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-7020

Valid cases: 74173
 Invalid: 0

Admitting doctor code (AdmissionDoctor)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-7122

Valid cases: 74160
 Invalid: 13
 Minimum: 1
 Maximum: 7122
 Mean: 406.8
 Standard deviation: 1119.5

Date of discharge (DischargeDate)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 74173
 Minimum: NaN
 Maximum: NaN

Status on discharge (DischargeStatus)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-9

Valid cases: 74173
 Invalid: 0

Discharge doctor code (DischargeDoctor)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-7122

Valid cases: 73910
 Invalid: 263
 Minimum: 1
 Maximum: 7122
 Mean: 385.6
 Standard deviation: 1083.4

Length of Stay (days) (LOS)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-2550808

Valid cases: 74173
 Invalid: 0
 Minimum: 0
 Maximum: 2550808
 Mean: 3683.4
 Standard deviation: 96750.1

Length of Stay (hours), if LOS=0 (LOSH)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-23

Valid cases: 9869
 Invalid: 64304
 Minimum: 0
 Maximum: 23
 Mean: 16
 Standard deviation: 6.1

HIV Status on admission (HIVStatus)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-9

Valid cases: 74173
 Invalid: 0

On ART prior to admission (OnART)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-9

Valid cases: 74173
 Invalid: 0

Date on which ART was started (ARTDateStarted)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 16490
 Minimum: NaN
 Maximum: NaN

Latest HIV test in hospital result (HIVTest)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 0-3

Valid cases: 74173
 Invalid: 0

Latest in hospital CD4 count (LatestCD4)

File: HIS01-01 Admissions

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: -7-4031

Valid cases: 1220
 Invalid: 72953
 Minimum: -7
 Maximum: 4031
 Mean: 281.2
 Standard deviation: 294.9

Date on which CD4 was done (CD4Date)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 1220
 Minimum: NaN
 Maximum: NaN

Admission diagnosis 1 type (ADxType1)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 74066
 Invalid: 107

Admission diagnosis 1 ICD10 code (ADx1)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 74066
 Invalid: 0

Admission diagnosis 2 type (ADxType2)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 44878
 Invalid: 29295

Admission diagnosis 2 ICD10 code (ADx2)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 44878
 Invalid: 0

Admission diagnosis 3 type (ADxType3)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 13544
 Invalid: 60629

Admission diagnosis 3 ICD10 code (ADx3)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 13544
 Invalid: 0

Admission diagnosis 4 type (ADxType4)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 2782
 Invalid: 71391

Admission diagnosis 4 ICD10 code (ADx4)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 2782
 Invalid: 0

Admission diagnosis 5 type (ADxType5)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 407
 Invalid: 73766

Admission diagnosis 5 ICD10 code (ADx5)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 407
 Invalid: 0

Admission diagnosis 6 type (ADxType6)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 52
 Invalid: 74121

Admission diagnosis 6 ICD10 code (ADx6)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 52
 Invalid: 0

Discharge diagnosis 1 type (DDxType1)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 73944
 Invalid: 229

Discharge diagnosis 1 ICD10 code (DDx1)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 73944
 Invalid: 0

Discharge diagnosis 2 type (DDxType2)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 47386
 Invalid: 26787

Discharge diagnosis 2 ICD10 code (DDx2)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 47386
 Invalid: 0

Discharge diagnosis 3 type (DDxType3)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 14837
 Invalid: 59336

Discharge diagnosis 3 ICD10 code (DDx3)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: character
 Width: 6

Valid cases: 14837
 Invalid: 0

Discharge diagnosis 4 type (DDxType4)

File: HIS01-01 Admissions

Overview

Type: Discrete
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 1-9

Valid cases: 3100
 Invalid: 71073

Discharge diagnosis 4 ICD10 code (DDx4)

File: HIS01-01 Admissions

Overview

Type: Discrete
Format: character
Width: 6

Valid cases: 3100
Invalid: 0

Discharge diagnosis 5 type (DDxType5)

File: HIS01-01 Admissions

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-9

Valid cases: 411
Invalid: 73762

Discharge diagnosis 5 ICD10 code (DDx5)

File: HIS01-01 Admissions

Overview

Type: Discrete
Format: character
Width: 6

Valid cases: 411
Invalid: 0

Discharge diagnosis 6 type (DDxType6)

File: HIS01-01 Admissions

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-9

Valid cases: 60
Invalid: 74113

Discharge diagnosis 6 ICD10 code (DDx6)

File: HIS01-01 Admissions

Overview

Type: Discrete
Format: character
Width: 6

Valid cases: 60
Invalid: 0

Surveillance individual identifier (ACDISIntId)

File: HIS01-01 Admissions

Overview

Type: Continuous
Format: numeric
Width: 12
Decimals: 0
Range: 56-173472

Valid cases: 4362
Invalid: 69811
Minimum: 56
Maximum: 173472
Mean: 84983.8
Standard deviation: 53324.8

ARTemis individual identifier (ARTemisPersonNo)

File: HIS01-01 Admissions

Overview

Type: Continuous	Valid cases: 9511
Format: numeric	Invalid: 64662
Width: 12	Minimum: 52
Decimals: 0	Maximum: 211733
Range: 52-211733	Mean: 102757
	Standard deviation: 65632

Theatre Procedure Code (TheatreProcedureCode)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 5144
Format: character	Invalid: 0
Width: 5	

Anaesthetic Code (AnaestheticCode)

File: HIS01-01 Admissions

Overview

Type: Discrete	Valid cases: 5144
Format: numeric	Invalid: 69029
Width: 12	
Decimals: 0	
Range: 0-9	

Documentation

Technical documents

DDI:HIS

Title DDI:HIS
Author(s) Sweetness H Dube
Date 29/10/2020
Country South Africa
Language English
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