

South Africa - Vukuzazi Machine Learning Chest X-ray project among individuals aged 15 years and above in rural KwaZulu Natal, South Africa, 2018.

Sweetness H Dube

Report generated on: October 17, 2019

Visit our data catalog at: <https://data.africacentre.ac.za/index.php>

Overview

Identification

ID NUMBER

AHRI.Vukuzazi.ClinicalData.2018.v1

Version

VERSION DESCRIPTION

V1.0.0

Overview

ABSTRACT

The datasets provided here will be used for devising a machine learning tool to improve upon CAD4TB's triaging of chest x-rays.

KIND OF DATA

Survey Data

UNITS OF ANALYSIS

Each chest x-ray image or images are for a Vukuzazi study participant who had chest x-ray done.

The clinical data, each record is for a single participant who participated in Vukuzazi and had chest x-ray done. Some individuals had more than one chest x-ray images and therefore have more than one record.

TOPICS

Topic	Vocabulary	URI
Chest x-ray; machine learning; tuberculosis; population health screening	Africa Health Research Institute	www.ahri.org

KEYWORDS

Tuberculosis

Coverage

GEOGRAPHIC COVERAGE

uMkhanyakude district in northern KwaZulu-Natal

UNIVERSE

Individuals aged 15 years and above who are resident members of households in the AHRI DSS area.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Professor Deenan, Pillay	UCL; AHRI
Dr Olivier, Koole	LSHTM; AHRI
Dr. Emily, Wong	AHRI

OTHER PRODUCER(S)

Name	Affiliation	Role
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Name	Affiliation	Role
Africa Health Research Institute		

FUNDING

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Dr. Kobus, Herbst	AHRI	Chief Information Officer
Dickman, Garetta	AHRI	Head of Research Data Management
Jaco, Dreyer	AHRI	Data management, data cleaning
Tumi, Madolo	AHRI	Data management, data cleaning
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Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Africa Health Research Institute	AHRI		

DDI DOCUMENT ID

DDI.AHRI.Vukuzazi.ClinicalData.2018.v1

Sampling

Sampling Procedure

N/A. All individuals aged 15 years and older who are resident members of households in the DSS area are eligible to participate Vukuzazi study.

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2018-05-01	2018-09-30	N/A

Data Processing

Data Editing

NA

Data Appraisal

No content available

File Description

Variable List

AHRI.Vukuzazi.ClinicalData.2018.V1

Content
Cases 1098
Variable(s) 78
Structure Type:
Keys: ()
Version
Producer
Missing Data

Variables

ID	Name	Label	Type	Format	Question
V2	IndividualId	Unique Internal Id of Individual	contin	numeric	
V3	Sex	Gender	discrete	numeric	
V4	DateOfBirth	Individual's Date of Birth	discrete	character	
V5	Age	Individual age	contin	numeric	
V6	ClinicVisitDate	Mobile Clinic Visit Date	discrete	character	
V7	HeightCm	Height in Cm	contin	numeric	
V8	WeightKg	Weight in Kg	contin	numeric	
V9	BPSecondSystolic	BP Second Systolic	contin	numeric	
V10	BPSecondDiastolic	BP Second Diastolic	contin	numeric	
V11	BPThirdSystolic	BP Third Systolic	contin	numeric	
V12	BPThirdDiastolic	BP Third Diastolic	contin	numeric	
V13	BPForthSystolic	BP Forth Systolic	contin	numeric	
V14	BPForthDiastolic	BP Forth Diastolic	contin	numeric	
V15	HadPosHIVResult	Have you ever had a positive HIV test result?	discrete	numeric	
V16	CD4LymphAb	CD4 Lymphocytes Abs	contin	numeric	
V17	HBA1c	HBA1c	contin	numeric	
V18	LiquidCulture	Liquid Culture Result(MGIT)	discrete	numeric	
V19	MOLungField	MO Lung Field	discrete	numeric	
V20	CxrMOConclusion	Cxr rMO Conclusion	discrete	numeric	
V21	CxrRadiologistConclusion	Cxr Radiologist Conclusion	discrete	numeric	
V22	GeneXpert	TB GeneXpert Test Result	discrete	numeric	
V23	RadActiveTB	Radiologist Diagnostic ActiveTB	discrete	numeric	
V24	RadOldTB	Radiologist Diagnostic OldTB	discrete	numeric	
V25	RadProbableTB	Radiologist Diagnostic ProbableTB	discrete	numeric	
V26	RadOtherInfection	Radiologist Diagnostic Other Infection	discrete	numeric	
V27	RadInflammatoryDisorder	Radiologist Diagnostic Inflammatory Disorder	discrete	numeric	
V28	RadNeoplasm	Radiologistr Diagnostic Neoplasm	discrete	numeric	
V29	RadTrauma	Radiologist Diagnostic Trauma	discrete	numeric	

ID	Name	Label	Type	Format	Question
V30	RadCongenitalAbnormality	Radiologist Diagnostic CongenitalAbnormality	discrete	numeric	
V31	RadCardiacDisorder	Radiologist Diagnostic CardiacDisorder	discrete	numeric	
V32	RadVascularDisorder	Radiologist Diagnostic VascularDisorder	discrete	numeric	
V33	RadDegenerativeDisorder	Radiologist Diagnostic Degenerative Disorder	discrete	numeric	
V34	RadTBDiagnosticOther	Radiologist TB Diagnostic Other	discrete	numeric	
V35	CurrSmoker	Do you currently smoke any tobacco products, such as cigarettes, cigars or pipes?	discrete	numeric	
V36	CurrSmokerDaily	Do you currently smoke tobacco products daily?	discrete	numeric	
V37	StopSmoking12mo	During any visit to a doctor or other health worker in the past 12 months, were y	discrete	numeric	
V38	EverSmoked	In the past, did you ever smoke any tobacco products?	discrete	numeric	
V39	EverSmokedDaily	In the past, did you ever smoke daily?	discrete	numeric	
V40	ConsumedAlcohol30d	Have you consumed any alcohol within the past 30 days?	discrete	numeric	
V41	TBTxCurrent	Are you currently on TB treatment?	discrete	numeric	
V42	ReceivedTBIjections	If yes, have you received injections as part of this TB treatment?	discrete	numeric	
V43	TBTxEver	Have you been on TB treatment before?	discrete	numeric	
V44	NumberTBTxEver	If yes, how many times have you been on TB treatment?	discrete	numeric	
V45	LastTBDateCompletion	Date of completion of last TB treatment	discrete	numeric	
V46	HomesteadMemberTBEver	Has anyone in your homestead (or residential plot), during your lifetime	discrete	numeric	
V47	HomesteadMemberTBCurr	Is anybody in your homestead (or residential plot) currently on TB treatment?	discrete	numeric	
V48	CoughCurr	Do you currently have a cough?	discrete	numeric	
V49	CoughDuration	If yes, how long have you had the cough	contin	numeric	
V50	CoughSputum	If yes, do you cough up sputum?	discrete	numeric	
V51	FeverCurr	Do you have a fever?	discrete	numeric	
V52	FeverDuration	If yes, how long have you had a fever?	discrete	numeric	
V53	NightSweatsCurr	Do you have drenching night sweats? (Sweating at night that soaks your clothes or	discrete	numeric	
V54	NightSweatsDuration	How long have you had drenching night sweats?	discrete	numeric	
V55	WeightLoss6mo	Have you lost weight in the last 6 months?	discrete	numeric	
V56	WeightLossNumber	How much weight have you lost in the last 6 months?	discrete	numeric	
V57	OtherSymptoms	Do you have any other symptoms apart from those already mentioned?	discrete	numeric	
V58	HighAsthmaInformedEver	Have you ever been told by a doctor or other health worker that you have asthma o	discrete	numeric	
V59	HighAsthmaInformed12mo	Have you been told in the past 12 months?	discrete	numeric	
V60	HighhAsthmaTx2wks	In the past two weeks, have you taken any medication for asthma/COPD prescribed b	discrete	numeric	
V61	BreathShortness	Do you have shortness of breath after exercise or physical activity?	discrete	numeric	
V62	WakeUpBreathShortness	Do you wake up at night because of difficulties in breathing/shortness of breath?	discrete	numeric	
V63	NightWheezing	Do you experience wheezing at night?	discrete	numeric	

ID	Name	Label	Type	Format	Question
V64	HIVPosResult1stDate	When was your first positive test result?	discrete	character	
V65	CurrentlyOnART	Are you currently receiving ART?	discrete	numeric	
V66	CXRScore	Chest X-Ray	contin	numeric	
V67	SputumReferral	Sputum Referral	discrete	numeric	
V68	RadiologistLungField	Radiologist Lung Field	discrete	numeric	
V69	CxrRadiologistDiagnosticOther	Cxr Radiologist Diagnostic Other	discrete	character	
V70	Fatigue	Fatigue	discrete	numeric	
V71	Haemoptysis	Haemoptysis	discrete	numeric	
V72	ChestPain	Chest Pain	discrete	numeric	
V73	Lymphadenitis	Lymphadenitis	discrete	numeric	
V74	VL	HIV Viral Load Result	discrete	numeric	
V75	HIVelisa	HIV Elisa Result	discrete	numeric	
V76	StudyId	Chest X Ray Image Study	contin	numeric	
V77	SeriesId	Chest X Ray Image Series	contin	numeric	
V78	SeriesDate	Series Date	discrete	character	
V79	ChestXRayImageMD5	Chest X Ray MD5 Harsh	discrete	character	

Unique Internal Id of Individual (IndividualId)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	Minimum: 5
Decimals: 0	Maximum: 2288
Range: 5-2288	Mean: 1102.6
	Standard deviation: 670.7

Gender (Sex)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-9	

Individual's Date of Birth (DateOfBirth)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Individual age (Age)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1097
Format: numeric	Invalid: 1
Width: 12	Minimum: 15
Decimals: 0	Maximum: 95
Range: 15-95	Mean: 40.3
	Standard deviation: 19

Mobile Clinic Visit Date (ClinicVisitDate)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Height in Cm (HeightCm)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Height in Cm (HeightCm)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 13.5
Decimals: 0	Maximum: 196
Range: 13.5-196	Mean: 161.5
	Standard deviation: 11.1

Weight in Kg (WeightKg)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 27.7
Decimals: 0	Maximum: 657
Range: 27.7-657	Mean: 73.9
	Standard deviation: 26.7

BP Second Systolic (BPSecondSystolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 58
Decimals: 0	Maximum: 227
Range: 58-227	Mean: 120.2
	Standard deviation: 21.1

BP Second Diastolic (BPSecondDiastolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 34
Decimals: 0	Maximum: 164
Range: 34-164	Mean: 74.5
	Standard deviation: 14

BP Third Systolic (BPThirdSystolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 76
Decimals: 0	Maximum: 219
Range: 76-219	Mean: 118.8
	Standard deviation: 20.9

BP Third Diastolic (BPThirdDiastolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 10	Minimum: 40
Decimals: 0	Maximum: 133
Range: 40-133	Mean: 73.7
	Standard deviation: 13.7

BP Forth Systolic (BPForthSystolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 59
Format: numeric	Invalid: 1039
Width: 10	Minimum: 92
Decimals: 0	Maximum: 228
Range: 92-228	Mean: 161.7
Invalid: 1001	Standard deviation: 30.7

BP Forth Diastolic (BPForthDiastolic)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 0
Format: numeric	Invalid: 1098
Width: 10	
Decimals: 0	
Invalid: 1000000001	

Have you ever had a positive HIV test result? (HadPosHIVResult)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 931
Format: numeric	Invalid: 167
Width: 12	
Decimals: 0	
Range: 1-3	

CD4 Lymphocytes Abs (CD4LymphAb)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 396
Format: numeric	Invalid: 702
Width: 10	Minimum: 60
Decimals: 0	Maximum: 2156
Range: 60-2156	Mean: 714.9
Invalid: 10001	Standard deviation: 338

HBA1c (HBA1c)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1082
Format: numeric	Invalid: 16
Width: 10	Minimum: 23
Decimals: 0	Maximum: 154
Range: 23-154	Mean: 38.9
Invalid: 1001	Standard deviation: 12.9

Liquid Culture Result(MGIT) (LiquidCulture)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 242
Format: numeric	Invalid: 856
Width: 10	
Decimals: 0	
Range: 1-7	
Invalid: 11	

MO Lung Field (MOLungField)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-2	

Cxr rMO Conclusion (CxrMOConclusion)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-6	

Cxr Radiologist Conclusion (CxrRadiologistConclusion)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-6	

TB GeneXpert Test Result (GeneXpert)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 242
Format: numeric	Invalid: 856
Width: 10	
Decimals: 0	
Range: 1-6	
Invalid: 11	

Radiologist Diagnostic ActiveTB (RadActiveTB)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 13
Format: numeric	Invalid: 1085
Width: 12	
Decimals: 0	
Range: 1-3	

Radiologist Diagnostic OldTB (RadOldTB)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 167
Format: numeric	Invalid: 931
Width: 12	
Decimals: 0	
Range: 1-3	

Radiologist Diagnostic ProbableTB (RadProbableTB)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 4
Format: numeric	Invalid: 1094
Width: 12	
Decimals: 0	
Range: 1-3	

Radiologist Diagnostic Other Infection (RadOtherInfection)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 5
Format: numeric	Invalid: 1093
Width: 12	
Decimals: 0	
Range: 1-3	

Radiologist Diagnostic Inflammatory Disorder (RadInflammatoryDisorder)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 5
Invalid: 1093

Radiologist Diagnostic Neoplasm (RadNeoplasm)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 8
Invalid: 1090

Radiologist Diagnostic Trauma (RadTrauma)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 11
Invalid: 1087

Radiologist Diagnostic Congenital Abnormality (RadCongenitalAbnormality)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 18
Invalid: 1080

Radiologist Diagnostic Cardiac Disorder (RadCardiacDisorder)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 3
Invalid: 1095

Radiologist Diagnostic VascularDisorder (RadVascularDisorder)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 59
Invalid: 1039

Radiologist Diagnostic Degenerative Disorder (RadDegenerativeDisorder)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 4
Invalid: 1094

Radiologist TB Diagnostic Other (RadTBDiagnosticOther)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 46
Invalid: 1052

Do you currently smoke any tobacco products, such as cigarettes, cigars or pipes? (CurrSmoker)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

Do you currently smoke tobacco products daily? (CurrSmokerDaily)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 99
Invalid: 999

During any visit to a doctor or other health worker in the past 12 months, were y (StopSmoking12mo)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 99
Invalid: 999

In the past, did you ever smoke any tobacco products? (EverSmoked)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

In the past, did you ever smoke daily? (EverSmokedDaily)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 51
Invalid: 1047

Have you consumed any alcohol within the past 30 days? (ConsumedAlcohol30d)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 132
Invalid: 966

Are you currently on TB treatment? (TBTxCurrent)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

If yes, have you received injections as part of this TB treatment? (ReceivedTBInjections)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 11
Invalid: 1087

Have you been on TB treatment before? (TBTxEver)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

If yes, how many times have you been on TB treatment? (NumberTBTxEver)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

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

Valid cases: 146
Invalid: 952

Date of completion of last TB treatment (LastTBDateCompletion)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 0
Invalid: 1098

Has anyone in your homestead (or residential plot), during your lifetime (HomesteadMemberTBEver)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

Is anybody in your homestead (or residential plot) currently on TB treatment? (HomesteadMemberTBCurr)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-3	

Do you currently have a cough? (CoughCurr)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-3	

If yes, how long have you had the cough (CoughDuration)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 56
Format: numeric	Invalid: 1042
Width: 12	Minimum: 1
Decimals: 0	Maximum: 36
Range: 1-36	Mean: 2.8
	Standard deviation: 5

If yes, do you cough up sputum? (CoughSputum)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 56
Format: numeric	Invalid: 1042
Width: 12	
Decimals: 0	
Range: 1-3	

Do you have a fever? (FeverCurr)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-3	

If yes, how long have you had a fever? (FeverDuration)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 29
Format: numeric	Invalid: 1069
Width: 12	
Decimals: 0	
Range: 1-7	

Do you have drenching night sweats? (Sweating at night that soaks your clothes or (NightSweatsCurr)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-3	

How long have you had drenching night sweats? (NightSweatsDuration)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 20
Format: numeric	Invalid: 1078
Width: 12	
Decimals: 0	
Range: 1-5	

Have you lost weight in the last 6 months? (WeightLoss6mo)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-3	

How much weight have you lost in the last 6 months? (WeightLossNumber)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 52
Format: numeric	Invalid: 1046
Width: 12	
Decimals: 0	
Range: 1-72	

Do you have any other symptoms apart from those already mentioned? (OtherSymptoms)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

Have you ever been told by a doctor or other health worker that you have asthma or (HighAsthmaInformedEver)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 1098
Invalid: 0

Have you been told in the past 12 months? (HighAsthmaInformed12mo)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 40
Invalid: 1058

In the past two weeks, have you taken any medication for asthma/COPD prescribed by (HighAsthmaTx2wks)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 40
Invalid: 1058

Do you have shortness of breath after exercise or physical activity? (BreathShortness)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Do you have shortness of breath after exercise or physical activity? (BreathShortness)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 366
Invalid: 732

Do you wake up at night because of difficulties in breathing/shortness of breath? (WakeUpBreathShortness)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 367
Invalid: 731

Do you experience wheezing at night? (NightWheezing)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 367
Invalid: 731

When was your first positive test result? (HIVPosResult1stDate)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: character
Width: 11

Valid cases: 0

Are you currently receiving ART? (CurrentlyOnART)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete
Format: numeric
Width: 12
Decimals: 0
Range: 1-3

Valid cases: 303
Invalid: 795

Chest X-Ray (CXRScore)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Chest X-Ray (CXRScore)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	Minimum: 10
Decimals: 0	Maximum: 100
Range: 10-100	Mean: 29.8
	Standard deviation: 15.5

Sputum Referral (SputumReferral)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 7
Format: numeric	Invalid: 1091
Width: 12	
Decimals: 0	
Range: 1-1	

Radiologist Lung Field (RadiologistLungField)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	
Decimals: 0	
Range: 1-2	

Cxr Radiologist Diagnostic Other (CxrRadiologistDiagnosticOther)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 7
Format: character	
Width: 244	

Fatigue (Fatigue)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 8
Format: numeric	Invalid: 1090
Width: 12	
Decimals: 0	
Range: 1-3	

Haemoptysis (Haemoptysis)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Haemoptysis (Haemoptysis)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1
Format: numeric	Invalid: 1097
Width: 12	
Decimals: 0	
Range: 1-3	

Chest Pain (ChestPain)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 0
Format: numeric	Invalid: 1098
Width: 12	
Decimals: 0	
Range: 1-3	

Lymphadenitis (Lymphadenitis)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 0
Format: numeric	Invalid: 1098
Width: 12	
Decimals: 0	
Range: 1-3	

HIV Viral Load Result (VL)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 364
Format: numeric	Invalid: 734
Width: 10	Minimum: 1
Decimals: 0	Maximum: 1200048
Range: 1-1200048	
Invalid: 1000001	

HIV Elisa Result (HIVElisa)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1082
Format: numeric	Invalid: 16
Width: 10	
Decimals: 0	
Range: 1-2	
Invalid: 11	

Chest X Ray Image Study (StudyId)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	Minimum: 1000
Decimals: 0	Maximum: 2082
Range: 1000-2082	Mean: 1544.7
	Standard deviation: 314.6

Chest X Ray Image Series (SeriesId)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Continuous	Valid cases: 1098
Format: numeric	Invalid: 0
Width: 12	Minimum: 1
Decimals: 0	Maximum: 1098
Range: 1-1098	Mean: 549.5
	Standard deviation: 317.1

Series Date (SeriesDate)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: character	Minimum: NaN
Width: 11	Maximum: NaN

Chest X Ray MD5 Harsh (ChestXRayImageMD5)

File: AHRI.Vukuzazi.ClinicalData.2018.V1

Overview

Type: Discrete	Valid cases: 1098
Format: character	Invalid: 0
Width: 32	

Documentation

Technical documents

Documentation:Chest X Ray Machine Learning

Title Documentation:Chest X Ray Machine Learning
Author(s) Sweetness H Dube
Date 06/12/2018
Country South Africa
Language English
Filename Chest X Ray Machine Learning_05Dec2018.pdf

DDI:Vukuzazi Clinical Data

Title DDI:Vukuzazi Clinical Data
Author(s) Sweetness H Dube
Date 17/10/2019
Country South Africa
Language English
Filename AHRI.Vukuzazi.ClinicalData.2019.V4.0.0.pdf
