

South Africa

**AHRI.MONARCH (Management and Optimisation of
Nutrition, Antenatal, Reproductive, Child health & HIV care)**

Study Documentation

March 12, 2024

Metadata Production

Metadata Producer(s)	Africa Health Research Institute (AHRI)
Identification	DDI.MORNACH.Primary.Endpoint.BasicAnalytical.Dataset

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AHRI.MONARCH (Management and Optimisation of Nutrition, Antenatal, Reproductive, Child health & HIV care)

Overview	
Identification	AHRI.MORNACH.Primary.Endpoint.BasicAnalytical.Dataset
Version	v1.0.0
<p>Abstract</p> <p>MONARCH was a stepped-wedge trial of continuous quality improvement (CQI) conducted at the 7 clinics part of the AHRI original demographic surveillance area: Mtubatuba, KwaMsane, Somkhele, Gunjaneni, Machibini, Esiyembeni and Mpukunyoni clinics. Primary endpoint data were collected from the 7 participating clinics + the local district hospital as most deliveries occurred at the hospital, although no CQI activities occurred at the hospital.</p> <p>Detailed methods are provided in the published protocol paper (Chetty, Yapa et al. BMC Health Serv Res 2018;18:625. doi: 10.1186/s12913-018-3404-3 <https://doi.org/10.1186%2Fs12913-018-3404-3>) and the primary endpoint manuscript (Yapa et al. PLoS Med 2020; 17:e1003150. doi: 10.1371/journal.pmed.1003150 <https://doi.org/10.1371/journal.pmed.1003150>).</p> <p>Variables included in this (long/ panel) dataset (per request):</p> <ol style="list-style-type: none"> (1) Primary outcomes: HIV VL variable outvlvtv; repeat HIV screening variable: outsctrv (2) Period indicator: stepv (3) Treatment indicator: qib (4) Cluster indicator variables: clinic1, clust1 (5) Randomised by clinic size: clinsize (6) Individual subject identifier: studyid, idno <p>**primary model without random clinic-time interaction (basic H&H)</p> <pre>meglm outvlvtv qib i.stepv if visitno!=11 & seroconv!=1 clinic1:, family(poisson) vce(cluster clinic1) eform meglm outsctrv qib i.stepv if visitno!=11 clinic1:, family(poisson) vce(cluster clinic1) eform</pre>	
Kind of Data	Routine clinical data extracted from paper medical records
Unit of Analysis	<p>Antenatal visit. Defined by date.</p> <p>NB: visit 11 is the delivery date. Up to 10 ANC visits were included in the analysis. If confv is missing or 0 that means the participant did not attend an ANC visit at that time (therefore, date and other information for that visit should be missing).</p> <p>All ANC visit dates were entered sequentially based on actual attendance, regardless of time elapsed since last visit or when it was scheduled. E.g., if confv for visit 4 was missing, there should not be any data for visit 5 or beyond. There will be a date for visit 11 as that variable was created based on the delivery date.</p>
Time Period(s)	2014-2017
Countries	South Africa
Producers & Sponsors	
Other Producer(s)	Africa Health Research Institute (AHRI)
Other Acknowledgment(s)	Mpukunyoni community for their participation in the Population Intervention Programme

Data Collection

Data Collection Dates	start 2014-09-10 end 2017-01-23
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Accessibility

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

Yapa, M. (2024). AHRI.MONARCH (Management and Optimisation of Nutrition, Antenatal, Reproductive, Child health & HIV care) [Data set]. Africa Health Research Institute. DOI:<https://doi.org/10.23664/AHRI.MORNACH.PRIMARY.ENDPOINT.BASICANALYTICAL.DATASET>

Files Description

Dataset contains 1 file(s)

primep_taljaard_monarch_long	
# Cases	15372
# Variable(s)	13

Variables List

Dataset contains 13 variable(s)

File primep_taljaard_monarch_long							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	idno	ID Number	continuous	numeric-9.0	15372	0	-
2	studyid	Study ID	discrete	character-8	15372	0	-
3	clinic1	First attended ANC clinic cleaned	discrete	numeric-14.0	15372	0	-
4	visitno	ANC visit #	discrete	numeric-10.0	15372	0	-
5	date	Date of ANC visit	discrete	character-11	15372	-	-
6	confv	Was this ANC visit attended?	discrete	numeric-8.0	11053	4319	-
7	stepv	Time step of visit	discrete	numeric-9.0	15372	0	-
8	qib	CQI exposure by 1st booked ANC clinic	discrete	numeric-9.0	15372	0	-
9	clust1	Cluster # by 1st booked ANC clinic	discrete	numeric-10.0	15372	0	-
10	lastanc	Last ANC visit date before delivery	discrete	character-11	15372	-	-
11	dodeliv_c	Date of delivery	discrete	character-11	15372	-	-
12	outvltv	VL outcome at ANC visit binary	discrete	numeric-9.0	7445	7927	-
13	outsctv	HIV rpt scr outcome at ANC visit binary	discrete	numeric-9.0	6674	8698	-

Variables Description

Dataset contains 13 variable(s)

File : primep_taljaard_monarch_long

idno: ID Number

Information [Type= continuous] [Format=numeric] [Range= 1-2502] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-] [Mean=1257.416 /-] [StdDev=725.771 /-]

studyid: Study ID

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

clinic1: First attended ANC clinic cleaned

Information [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Gunjaneni	969	6.3%
2	Machibini	848	5.5%
3	Esiyembeni	270	1.8%
4	Somkhele	2548	16.6%
5	Mpukunyoni	1601	10.4%
6	Mtubatuba	4361	28.4%
7	KwaMsane	4775	31.1%
8	Non-DSA clinic	0	
9	Not recorded	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

visitno: ANC visit

Information [Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

date: Date of ANC visit

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-]

confv: Was this ANC visit attended?

Information [Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]

Statistics [NW/ W] [Valid=11053 /-] [Invalid=4319 /-]

stepv: Time step of visit

Information [Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

qib: CQI exposure by 1st booked ANC clinic

Information [Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

clust1: Cluster # by 1st booked ANC clinic

Information [Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]

Statistics [NW/ W] [Valid=15372 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Gunjaneni	969	6.3%

File : primep_taljaard_monarch_long

clust1: Cluster # by 1st booked ANC clinic

Value	Label	Cases	Percentage
2	Mach+Esi	1118	7.3%
3	Somkhele	2548	16.6%
4	Mpukunyoni	1601	10.4%
5	Mtuba	4361	28.4%
6	KwaMsane	4775	31.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

lastanc: Last ANC visit date before delivery

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=15372 /-]

dodeliv_c: Date of delivery

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=15372 /-]

outvltv: VL outcome at ANC visit binary

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=7445 /-] [Invalid=7927 /-]

outscriv: HIV rpt scr outcome at ANC visit binary

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=6674 /-] [Invalid=8698 /-]