

South Africa - AHRI.Surveillance Episodes Yr Age Delivery Dataset 2023

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Identification

SURVEY ID NUMBER
AHRI.SEYAD2023.v1

TITLE
AHRI.Surveillance Episodes Yr Age Delivery Dataset 2023

COUNTRY

Name	Country code
South Africa	ZA

ABSTRACT

Africa Health Research Institute (AHRI) is a multidisciplinary, independent research institute. AHRI's goal is to become a source of fundamental discoveries into the susceptibility, transmission and cure of HIV, TB and related diseases. We also seek ways to improve diagnosis, prevention and treatment. To achieve this, we bring together leading researchers from different fields, use cutting edge science to improve people's health, and help to train the next generation of African scientists.

AHRI has conducted individual and household demographic surveillance since 2000. Demographic surveillance data are processed for longitudinal analyses by organizing the demographic surveillance data into individual and household residency episodes at a geographical physical location, and individual membership episodes within a household. Start events of residency and memberships include enumeration, birth, in-migration and relocating into a household from within the study population. Exit events of residency and memberships include death (by cause), out-migration and relocating to another location in the study population. AHRI annually produces a suite of Individual Demographic surveillance datasets which contains detailed records of all individuals under surveillance since January 2000. The datasets detail individual residency and membership patterns, household mortality (including cause of death), fertility, migration, HIV status, health care utilization, and household socio-economic profile.

Each record in the dataset represents a period of observation for an individual during which all the recorded characteristics of the individual stay constant. For example, on the birthday of the individual a new episode will start, because the age of the individual has changed. An out-migration will result in a new episode, because the location or residential status has changed. Any change in one of the status values, such as education, marital status, social-economic status and HIV will likewise result in a new episode on the date of the change.

There are four versions of the Demographic surveillance datasets:

1. SurveillanceEpisodesBasic
2. SurveillanceEpisodesBasicYrAge
3. SurveillanceEpisodesBasicHIV
4. SurveillanceEpisodesYrAgeDelivery

The definitions of the SurveillanceEpisodes vary slightly between the four versions. All SurveillanceEpisodesBasic are specific to a) individual b) residency type except that a new episode starts if the age changes (SurveillanceEpisodes BasicYrAge), HIV status changes (SurveillanceEpisodesBasicHIV). The SurveillanceEpisodesBasic datasets contain specific variables in addition to the minimum variables that each dataset has. For instance, SurveillanceEpisodesBasicHIV contains all HIV related variables in addition to the basic minimum variables that all surveillance episodes contain. Causes and likelihood of deaths from InterVA 5 are also included. Table 1 below describes the seven Demographic surveillance datasets

KIND OF DATA

Event History Data

UNIT OF ANALYSIS

Episodes of exposure

Version

VERSION DESCRIPTION

v1.0.0

Scope

TOPICS

Topic	Vocabulary	URI
Surveillance Episodes Yr Age Delivery	Africa Health Research Institute	www.ahri.org

KEYWORDS

Keyword	Vocabulary	URI
Fertility, Mortality, Migration, Social-economic status, HIV, ART	Africa Health Research Institute	www.ahri.org

Coverage

GEOGRAPHIC COVERAGE

AHRI is situated in the south-east portion of the uMkhanyakude district of KwaZulu-Natal province near the town of Mtubatuba. It is bounded on the west by the Umfolozi-Hluhluwe nature reserve, on the south by the Umfolozi river, on the east by the N2 highway (except from portions where the KwaMsane township strangles the highway) and in the north by the provincial road R22. The surveillance area is approximately 845km² in size.

UNIVERSE

Households resident in dwellings within the study area are eligible for inclusion in the household component of AHRI Demographic Surveillance. All individuals identified by the household proxy informant as members of the households are enumerated. A resident household member is an individual that intends to sleep majority of time at the dwelling occupied by the household over a four-month period. Households include resident and non-resident members. An individual is a non-resident member if they have close ties to the household, but do not physically reside with the household at the dwelling most of the time. Non-resident members can also be called temporary migrants and they are enumerated within the household list. Because household membership is not tied to physical residency, an individual may be a member of more than one household.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Kobus Herbst	AHRI, SAPRIN
Guy Harling	AHRI
Mark Siedner	AHRI
Willem Hanekom	AHRI

PRODUCERS

Name
Africa Health Research Institute

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Wellcome Trust	WT	Core funding
SAPRIN	SAPRIN	

OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
AHRI Research Data Management Team	AHRI	Research Data Management
AHRI Data Collection Team	AHRI	Data Collection
AHRI Community Engagement Team	AHRI	Community Engagement

Sampling

SAMPLING PROCEDURE

This dataset is not based on a sample but contains information from the complete demographic surveillance areas.

Data Collection

DATES OF DATA COLLECTION

Start	End
2000-01-01	2023-07-31

Data Processing

DATA EDITING

Data collected in this study was centrally stored on AHRI's secure database servers. Data was collected through interviews at the call centre on central server using Survey Solutions, and in the field on paper and encrypted tablet computers using REDCap, and then securely uploaded to a central server. Database rules and constraints were enforced on the master database to ensure that only valid data was stored. Personally identifiable data was restricted to separate database tables accessible only to data management staff .

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

Herbst, K., Harling, G., Siedner, M., & Hanekom, W. (2023). AHRI.Surveillance Episodes Yr Age Delivery Dataset 2023 (Version 1) [Data set]. Africa Health Research Institute. DOI:<https://doi.org/10.23664/AHRI.SEYAD2023>

Metadata production

DDI DOCUMENT ID

DDI.AHRI.SEYAD2023.v1

PRODUCERS

Name	Abbreviation
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Africa Health Research Institute

AHRI

Data Dictionary

Data file	Cases	Variables
SurveillanceEpisodesYrAgeDelivery	5599397	40

Data file: SurveillanceEpisodesYrAgeDelivery

Cases: 5599397

Variables: 40

Variables

ID	Name	Label	Question
V1	IntId	Unique PIP internal individual identifier	
V2	CalendarYear	The calendar year in which the episode false	
V3	Age	The age in completed years of the individual	
V4	ChildrenEverBorn	Number of children ever born to individual	
V5	Resident	Whether individual is resident for duration of episode	
V6	LocationId	Where individual was resident, household residence if non-resident	
V7	HouseholdId	Unique household identifier of the household the individual is a member of	
V8	Sex	Sex of individual	
V9	DoB	Date of birth	
V10	DoD	Date of death	
V11	MotherId	Mother's IndividualId	
V12	FatherId	Father's IndividualId	
V13	StartDate	Start date of episode (inclusive)	
V14	EndDate	End date of episode (inclusive)	
V15	Days	Duration in days of episode	
V16	ChildrenBorn	Number of babies delivered at start of episode	
V17	Born	Episode starts with the birth of the individual	
V18	Enumeration	Episode starts with an enumeration	
V19	InMigration	Episode starts with an in-migration	
V20	LocationEntry	Episode starts with an internal migration	
V21	ExtResStart	Flag to indicate start of external residence	
V22	Participation	Resume participation after refusal	
V23	Died	Episode ends with the death of the individual	
V24	OutMigration	Episode ends with the out-migration	
V25	LocationExit	Episode ends with an internal migration	
V26	ExtResEnd	Flag to indicate end of external residence	
V27	Refusal	Individual refused follow-up	
V28	LostToFollowUp	Individual was lost to follow-up at the end of the episode	
V29	Current	Individual still under surveillance	
V30	MembershipStart	Flag to indicate start of household membership	
V31	MembershipEnd	Flag to indicate end of household membership	
V32	Memberships	Number of concurrent household memberships	
V33	Gap	Gap in individual exposure record	
V34	YrStart	Flag episode start due to calendar year change	
V35	YrEnd	Flag episode end due to calendar year change	
V36	AgeStart	Flag episode start due to age change	
V37	AgeEnd	Flag episode end due to age change	
V38	Delivery	Delivery flag	

ID	Name	Label	Question
V39	Episode	This episode number (first=1, last=Episodes)	
V40	Episodes	Total number of episodes for individual	

Total: 40

IINTID: Unique PIP internal individual identifier**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0 Minimum: 11 Maximum: 271715 Mean: 105720.521 Standard deviation: 71703.468
 Type: Continuous Decimal: 0 Width: 12 Range: 11 - 271715 Format: Numeric

DOD: Date of death**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 433376 Minimum: 2000-01-01 Maximum: 2023-07-27
 Type: Discrete Width: 11 Range: - Format: character

CALENDARYEAR: The calendar year in which the episode false**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0 Minimum: 2000 Maximum: 2023 Mean: 2012.625 Standard deviation: 6.962
 Type: Continuous Decimal: 0 Width: 12 Range: 2000 - 2023 Format: Numeric

AGE: The age in completed years of the individual**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0 Minimum: 0 Maximum: 122 Mean: 24.817 Standard deviation: 18.213
 Type: Continuous Decimal: 0 Width: 12 Range: 0 - 122 Format: Numeric

CHILDRENEVERBORN: Number of children ever born to individual**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 0 - 16 Format: Numeric

RESIDENT: Whether individual is resident for duration of episode**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	1611785	28.8%
1	Yes	3987612	71.2%

LOCATIONID: Where individual was resident, household residence if non-resident

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0 Minimum: 0 Maximum: 354564 Mean: 13344.91 Standard deviation: 27594.066
 Type: Continuous Decimal: 0 Width: 12 Range: 0 - 354564 Format: Numeric

HOUSEHOLDID: Unique household identifier of the household the individual is a member of

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0 Minimum: 11 Maximum: 46662 Mean: 14240.123 Standard deviation: 12644.396
 Type: Continuous Decimal: 0 Width: 12 Range: 11 - 46662 Format: Numeric

SEX: Sex of individual

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	2629382	47%
2	Female	2970011	53%
3	Unknown	4	0%

DOB: Date of birth**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Minimum: 1890-01-01 Maximum: 2023-07-19
 Type: Discrete Width: 11 Range: - Format: character

MOTHERID: Mother's IndividualId**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 3883844 Invalid: 1715553 Minimum: 12 Maximum: 271612 Mean: 78127.459 Standard deviation: 62431.932
 Type: Continuous Decimal: 0 Width: 12 Range: 12 - 271612 Format: Numeric

FATHERID: Father's IndividualId**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 2056875 Invalid: 3542522 Minimum: 11 Maximum: 271324 Mean: 68318.458 Standard deviation: 57154.43
 Type: Continuous Decimal: 0 Width: 12 Range: 11 - 271324 Format: Numeric

STARTDATE: Start date of episode (inclusive)**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Minimum: 2000-01-01 Maximum: 2023-07-31
 Type: Discrete Width: 11 Range: - Format: character

ENDDATE: End date of episode (inclusive)**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Minimum: 2000-01-01 Maximum: 2023-07-31
 Type: Discrete Width: 11 Range: - Format: character

DAYS: Duration in days of episode**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0 Minimum: 1 Maximum: 366 Mean: 166.532 Standard deviation: 105.319

Type: Continuous Decimal: 0 Width: 12 Range: 1 - 366 Format: Numeric

CHILDRENBORN: Number of babies delivered at start of episode

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 0 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	None	5556340	99.2%
1	Singleton	42388	0.8%
2	Twin	658	0%
3	Triplet	9	0%
4	Quadruplet	2	0%
5	Quintuplets	0	0%
6	Sextuplets	0	0%
7	Septuplets	0	0%
8	Octuplets	0	0%

BORN: Episode starts with the birth of the individual

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5553270	99.2%
1	Yes	46127	0.8%

ENUMERATION: Episode starts with an enumeration**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5461088	97.5%
1	Yes	138309	2.5%

INMIGRATION: Episode starts with an in-migration**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5451740	97.4%
1	Yes	147657	2.6%

LOCATIONENTRY: Episode starts with an internal migration**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%

0	No	5541766	99%
1	Yes	57631	1%

EXTRESSTART: Flag to indicate start of external residence

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5436547	97.1%
1	Yes	162850	2.9%

PARTICIPATION: Resume participation after refusal

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5599393	100%
1	Yes	4	0%

DIED: Episode ends with the death of the individual

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5573506	99.5%
1	Yes	25891	0.5%

OUTMIGRATION: Episode ends with the out-migration

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5428442	96.9%
1	Yes	170955	3.1%

LOCATIONEXIT: Episode ends with an internal migration

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5541756	99%
1	Yes	57641	1%

EXTRESEND: Flag to indicate end of external residence**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5470874	97.7%
1	Yes	128523	2.3%

REFUSAL: Individual refused follow-up**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5596000	99.9%
1	Yes	3397	0.1%

LOSTTOFOLLOWUP: Individual was lost to follow-up at the end of the episode**Data file: SurveillanceEpisodesYrAgeDelivery****Overview**

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%

0	No	5582905	99.7%
1	Yes	16492	0.3%

CURRENT: Individual still under surveillance

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5446116	97.3%
1	Yes	153281	2.7%

MEMBERSHIPSTART: Flag to indicate start of household membership

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5265172	94%
1	Yes	334225	6%

MEMBERSHIPEND: Flag to indicate end of household membership

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5417887	96.8%
1	Yes	181510	3.2%

MEMBERSHIPS: Number of concurrent household memberships

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 10 Format: Numeric

GAP: Gap in individual exposure record

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5584756	99.7%
1	Yes	14641	0.3%

YRSTART: Flag episode start due to calendar year change

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	3094651	55.3%
1	Yes	2504746	44.7%

YREND: Flag episode end due to calendar year change

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	3094651	55.3%
1	Yes	2504746	44.7%

AGESTART: Flag episode start due to age change

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	3012409	53.8%
1	Yes	2586988	46.2%

AGEEND: Flag episode end due to age change

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0

Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	3058536	54.6%
1	Yes	2540861	45.4%

DELIVERY: Delivery flag

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0
 Type: Discrete Decimal: 0 Width: 15 Range: -1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
-1	Unknown/Missing	0	0%
0	No	5555749	99.2%
1	Yes	43648	0.8%

EPISODE: This episode number (first=1, last=Episodes)

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0 Minimum: 1 Maximum: 70 Mean: 17.554 Standard deviation: 13.479
 Type: Continuous Decimal: 0 Width: 12 Range: 1 - 70 Format: Numeric

EPISODES: Total number of episodes for individual

Data file: SurveillanceEpisodesYrAgeDelivery

Overview

Valid: 5599397 Invalid: 0 Minimum: 1 Maximum: 70 Mean: 34.108 Standard deviation: 15.953
 Type: Continuous Decimal: 0 Width: 12 Range: 1 - 70 Format: Numeric

Download related resources

Technical documents

DDI:SEYAD2023

Title	DDI:SEYAD2023
Author(s)	Sweetness H Dube
Date	15/08/2023
Country	South Africa
Language	English
Publisher(s)	Sweetness H Dube
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