

## SAPRIN Mental Health Data

### Background

SAPRIN (South African Population Research Infrastructure Network) is a network of health and demographic surveillance sites in South Africa that consists of three Health and Demographic Surveillance System (HDSS) nodes located in rural South Africa, namely:

- 1) MRC/Wits University Agincourt HDSS in Bushbuckridge District, Mpumalanga, which has collected data since 1993. The nodal website is <http://www.agincourt.co.za>.
- 2) the University of Limpopo DIMAMO HDSS in the Capricorn District of Limpopo, which has collected data since 1996. The nodal website is: N/A.
- 3) the Africa Health Research Institute (AHRI) HDSS in uMkhanyakude District, KwaZulu-Natal, which has collected data since 2000. The nodal website is <http://www.ahri.org>.
- 4) the Gauteng Research Triangle Initiative for the Study of Population, Infrastructure and Regional Economic Development (GRT-INSPIRED) in Hillbrow, Johannesburg, and Atteridgeville and Melusi, Tshwane, Gauteng. The nodal website is: N/A.
- 5) and the Cape Town Surveillance through Healthcare Action Research Project (C-SHARP), Nomzamo and Bishop Lavis, Cape Town, Western Cape. The nodal website is: N/A.

Between them, the nodes follow more than 75 000 households (320 000 individuals) longitudinally through regular surveillance visits (1). Shortly after the start of the Covid-19 pandemic, SAPRIN implemented a shared Covid surveillance programme (2, 3) in the Agincourt, DIMAMO and AHRI nodes. This Covid-19 surveillance is still being conducted in these three SAPRIN nodes.

### Mental Health Data

As part of the Covid-19 surveillance, the PHQ-2 and GAD-2 screening questions were administered to household respondents in Agincourt, DIMAMO and AHRI. By the end of 2021, a total of 90 000 such interviews were conducted, with approximately 12 000 interviews in the target group of 14-24-year-olds.

Although the PHQ-2 and GAD-2 questions on their own are not likely to be of interest to the Mental Data prize participants, several factors make this dataset to be of greater interest:

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- The interviews can be directly linked to the detailed longitudinal surveillance data in the three nodes, providing interesting contextual data to this set of observations on depression and anxiety during the span of the covid epidemic from its start across several epidemic waves of infection in South Africa.
- These contextual data include:
  - Individual-level data on partnership status, educational attainment, and employment, including self-reported health status.
  - Household data of the households the respondents are members of, including household composition and whether the respondents' parents are co-resident with them.
  - Household socio-economic status.
  - A large set of Covid-19 specific data, including vaccine acceptance and hesitancy data and the impact of Covid-19 measures on the household.
- These interviews were conducted from May 2020 and are still ongoing, with more than one interview with some participants at different points in time, allowing for the analysis of temporal effects.
- The data are readily available in a standardised format through SAPRIN. Some preparation will be needed to produce an integrated set of all the above-mentioned data in a user-friendly format that lends itself to longitudinal data analysis.

The SAPRIN Mental Health Prize Datasets consists of five types of demographic surveillance datasets extracted from the Agincourt, DIMAMO and AHRI nodes. More information of the production of the demographic surveillance can be found [here](#).

1. **SAPRIN Individual exposure episodes.** This dataset splits the basic surveillance episodes at calendar year-end and at the date when the age in years (birthday) of an individual change. In the case of women who have given births, episodes are split at the time of delivery as well. See Table 1.
2. **SAPRIN Individual status observations.** This dataset consists of status observations such as education, employment, employment and partnership status of an individual, that recur at more or less regular interval per individual over the study period. See Table 2.
3. **SAPRIN household and asset status observations.** This dataset consists of socio-economic status observations for a household. This data is collected from a household proxy respondent, preferably the head of household or any next available senior adult resident household member at more or less regular interval over the duration of the study. See Table 3.
4. **SAPRIN individual COVID-19.** This dataset consists of Covid-related status observations pertaining to Covid-19 diagnosis, vaccination status, attitudes to vaccination and the PHQ-2 and GAD-2 mental health related questions. See Table 4.

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5. **SAPRIN household COVID-19.** This dataset consists of Covid-19 related household level status observations, household awareness, and impact of Covid-19 control measures on the household. See Table 5.

### Data Selection

All individuals who are between the ages of 14 and 24yrs on the 1<sup>st</sup> of January 2020. All exposure episodes of these individuals from the start of exposure to the 30<sup>th</sup> of April 2022 are included in the dataset.

### References

1. Collinson MA, Mudzana T, Mutevedzi T, Kahn K, Maimela E, Gomez-Olive FX, et al. Cohort Profile: South African Population Research Infrastructure Network (SAPRIN). *Int J Epidemiol.* 2021. 10.1093/ije/dyab261
2. Siedner MJ, Harling G, Derache A, Smit T, Khoza T, Gunda R, et al. Protocol: Leveraging a demographic and health surveillance system for Covid-19 Surveillance in rural KwaZulu-Natal. *Wellcome Open Res.* 2020;5:109. 10.12688/wellcomeopenres.15949.2
3. Harling G, Gomez-Olive FX, Tlouyamma J, Mutevedzi T, Kabudula CW, Mahlako R, et al. Protective Behaviors and Secondary Harms Resulting from Nonpharmaceutical Interventions During the COVID-19 Epidemic in South Africa: Multisite, Prospective Longitudinal Study. *JMIR Public Health Surveill.* 2021;7(5):e26073. 10.2196/26073

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SAPRIN Mental Health Datasets.

Table 1: Individual Exposure Episodes

Dataset 1: Individual Exposure Episodes		
Variable	Label	Value/Notes
NodeId	SAPRIN Node identifier	
IndividualId	Unique individual identifier (anonymised)	
DoB	Date of birth	dd-mm-yyyy
DoD	Date of death	dd-mm-yyyy
CalendarYear	The calendar year in which the episode falls	
Age	The age in completed years of the individual	
Sex	Sex	Male; Female
LocationId	Homestead where the individual was resident during this episode	Residence of household if individual is currently non-resident
HouseholdId	Household the individual is a member of during this episode	
HHRelation	Relationship to the head of household during this episode	i. Self (the individual who is the subject of the membership is the household head) ii. Spouse (incl partner in

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		stable relationship) iii. Child (incl adopted/foster child) iv. Son/daughter-in-law (incl individuals in stable relationship with any child of the household head) v. Grandchild vi. Parent vii. Parent-in-law (incl parent of partner in stable relationship) viii. Grandparent ix. Other relative x. Domestic worker or tenant xi. Unrelated household member
IsUrbanOrRural	Settlement type of this location	Rural; Urban; Peri-Urban
MotherId	Unique identifier of mother	
FatherId	Unique identifier of father	
SpouseID	Unique identifier of spouse	Not available
StartDate	Start date of exposure episode	All time varying attributes remain static from this date
EndDate	End date of exposure episode	All time varying attributes remain static up to this date
StartType	Born, enumeration, residencyStart, externalResidencyStart,	What triggered this episode start?

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	participation, attributeChange	
EndType	Died, residencyEnd, externalResidencyEnd, refusal, lostToFollowUp, attributeChange, Current	How did this episode end?
Episode	Episode number	
Episodes	Total number of exposure episodes	
Resident	Resident during episode	Yes; No
MotherStatus	Unknown, coresident, alive living elsewhere, dead	For the duration of the episode
FatherStatus	Unknown, coresident, alive living elsewhere, dead	For the duration of the episode
ChildrenEverborn	Changes at delivery date	

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Table 2: Individual Status Observations

Dataset 2: Individual Status Observations		
Variable	Label	Value/Notes
NodeId	SAPRIN Node identifier	
IndividualId	Unique individual identifier (anonymised)	
ObservationDate	Date of status observation	dd-mm-yyyy
HealthStatus	Self-reported health status during this episode	Missing Excellent Good Fair Poor
PartnershipStatus	Partnership Status during this episode	Missing / Refused No Partnership Marital Partnership Regular Partnership Casual Partnership(s)
SchoolStatus	Education status during this episode	Highest school grade attained prior to this episode
EmploymentStatus	Employment status during this period	Unknown Employed Part-time employment Pensioner Not looking Other Household duties/care Job seeking

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		Education Disabled Unemployed Self-employed Informally employed
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Table 3: Household Status Observations

Dataset 3: Household Status Observations	
Variable	Label/Notes
NodeID	SAPRIN Node identifier
ProxyID	Household Proxy respondent ID
DoB	Date of Birth of house hold Proxy respondent
Sex	Sex of house hold proxy respondent
HouseholdID	Linkable to HouseholdID in episode dataset
ObservationDate	Date of observation
Water source	The most commonly used (during last year) source of drinking water <ol style="list-style-type: none"> <li>i. Piped – to stand/house</li> <li>ii. Piped – Public tap/kiosk</li> <li>iii. Borehole/well</li> <li>iv. Rainwater</li> <li>v. Flowing river/stream</li> <li>vi. Dam/standing water</li> <li>vii. Protected spring</li> <li>viii. Water carrier or tanker</li> </ol>
Toilet	What kind of toilet does the household use <ol style="list-style-type: none"> <li>i. Flush</li> <li>ii. Ventilated improved pit</li> <li>iii. Other pit</li> <li>iv. Bucket</li> <li>v. Chemical</li> </ol>
Electricity supply	Is the household connected to the electricity grid? <ol style="list-style-type: none"> <li>i. Yes</li> <li>ii. No</li> </ol>
Cooking fuel	What is the main fuel used for cooking? <ol style="list-style-type: none"> <li>i. Wood</li> <li>ii. Gas (LPG)</li> <li>iii. Coal</li> <li>iv. Electricity</li> </ol>

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<p>Dwelling construction</p>	<p>What are the construction materials of the walls?</p> <ul style="list-style-type: none"> <li>i. Brick</li> <li>ii. Cement</li> <li>iii. Other modern building material</li> <li>iv. Stabilised mud</li> <li>v. Traditional mud</li> <li>vi. Wood</li> <li>vii. Other informal structures</li> </ul> <p>What is the construction material of the floor?</p> <ul style="list-style-type: none"> <li>i. Tiles</li> <li>ii. Cement</li> <li>iii. Modern carpet</li> <li>iv. Wood</li> <li>v. Other modern material</li> <li>vi. Dirt</li> <li>vii. Mat</li> <li>viii. Other traditional</li> </ul> <p>How many bedrooms does your household occupy at this dwelling?</p>
<p>Assets</p>	<p>Does the household have any of the following items in good working order? (Multiple response, hot-one encoding)</p> <ul style="list-style-type: none"> <li>i. Telephone</li> <li>ii. Cellphone</li> <li>iii. Primus Cooker, Sikeni</li> <li>iv. Electric hot plate</li> <li>v. Electric stove with oven</li> <li>vi. Gas Cooker</li> <li>vii. Fridge/Freezer</li> <li>viii. Electric kettle</li> <li>ix. Television set</li> <li>x. Video cassette recorder/DVD</li> <li>xi. Radio/Stereo</li> <li>xii. Sewing machine</li> <li>xiii. Block maker</li> <li>xiv. Car or Bakkie</li> <li>xv. Motorcycle/Scooter</li> <li>xvi. Bicycle</li> <li>xvii. Kombi/Lorry/Tractor</li> <li>xviii. Bed</li> <li>xix. Table and chairs</li> <li>xx. Sofa/Sofa set</li> <li>xxi. Kitchen sink</li> <li>xxii. Car battery for Electricity</li> <li>xxiii. Wheelbarrow</li> <li>xxiv. Hoe, Spade or Garden Fork</li> <li>xxv. Bed Nets</li> <li>xxvi. Cattle</li> </ul>

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	<p>xxvii. Other Livestock (chickens etc)</p>
<p>Crime</p>	<p>Has any resident member of the household been a victim of any of these crimes in the past 12 months? (Multiple response, hot-one encoding)</p> <ul style="list-style-type: none"> <li>i. None</li> <li>ii. Theft</li> <li>iii. Assault</li> <li>iv. Murder</li> <li>v. Other crime</li> </ul>
<p>FinancialStatus</p>	<p>How would the household classify its financial situation these days? (Hot-one encoding)</p> <ul style="list-style-type: none"> <li>i. Very comfortable</li> <li>ii. Comfortable</li> <li>iii. Just getting by</li> <li>iv. Poor</li> <li>v. Extremely poor</li> </ul>

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Table 4: Individual Covid-19 status observations

Dataset 4: Individual Covid-19		
Variable	Label	Value/Notes
NodeId	SAPRIN Node identifier	
IndividualId	Unique individual identifier (anonymised)	
ObservationDate	Date of status observation	dd-mm-yyyy
DateOfBirth	Date of birth of individual	dd-mm-yyyy
PHQ2_1	Over the past 14 days, how often have you been bothered by having little interest or pleasure in doing things?	Not at all; Several days; More than half the days; Nearly every day
PHQ2_2	Over the past 14 days, how often have you been bothered by feeling down, depressed or hopeless?	Not at all; Several days; More than half the days; Nearly every day
GAD2_1	Over the past 14 days, how often have you been bothered by feeling nervous, anxious or on edge?	Not at all; Several days; More than half the days; Nearly every day
GAD2_2	Over the past 14 days, how often have you been bothered by not be able to stop or control worrying.	Not at all; Several days; More than half the days; Nearly every day
rk11	How likely is it that you will get COVID-19?	Certain; Very likely; Somewhat likely; Not very likely; No chance at all; I've already had Covid-19; Don't know
rk12	Do you know anyone who has been diagnosed as having COVID-19?	Yes; No; Don't know

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rk13	How concerned are you about your exposure to COVID-19?	Not at all; Slightly concerned; Moderately concerned; Very concerned; Not applicable
xx13	“The government cannot be trusted to tell the truth about Covid-19”	Strongly agree; Agree; Neither agree nor disagree; Disagree; Strongly disagree
xx15	“I trust the public health measures that the government is taking to combat Covid-19”	Strongly agree; Agree; Neither agree nor disagree; Disagree; Strongly disagree
xx16	“Government is not giving enough clear information about Covid-19”	Strongly agree; Agree; Neither agree nor disagree; Disagree; Strongly disagree
xx17	“Information about coronavirus is being withheld from the public”	Strongly agree; Agree; Neither agree nor disagree; Disagree; Strongly disagree
prior_covid_test	Have you ever been tested for COVID-19?	Yes; No
prior_covid_dx	Have you previously been diagnosed with COVID-19?	Yes; No
prior_covid_dx_date	When were you diagnosed with COVID-19?	dd-mm-yyyy
prior_covid_hosp	Have you been hospitalized for COVID-19?	Yes; No
vaccinated	Have you been vaccinated against Covid-19	Yes; No
Vaccinated_dose1_when	When did you receive your first dose?	dd-mm-yyyy

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Vaccinated_dose2	Have you received a second dose?	Yes No
Vaccinated_dose2_when	If yes, when did you receive your second dose?	dd-mm-yyyy
va12	What are the reasons that you would choose to get a vaccine against COVID-19? (Hot-one encoding)	To protect others in my family; To protect my community from COVID-19; To protect myself from getting sick with COVID-19; I have a chronic health condition; If my doctor, nurse or health worker recommends it; It would be the best way to avoid getting seriously ill from COVID-19; It would allow me to feel safe around other people; Life won't go back to normal until most people are vaccinated; Other (specify); None
va14	What are the reasons that you would choose not to get a vaccine against COVID-19? (Hot-one encoding)	I am allergic to vaccines; I don't like needles; I don't get vaccines in general; People in my community do not get vaccines in general; I'm not concerned about getting ill from the coronavirus; I would be concerned about getting infected with the coronavirus from

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		<p>the vaccine; I am concerned about side effects from the vaccine; I don't think that the vaccine will work; The coronavirus outbreak is not as serious as some people say it is; It might be expensive; It will be too late because we will have already been infected; I expect vaccination site will require long/expensive travel; I expect vaccination site will be open inconvenient hours/require long wait times; Other (specify); None</p>
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Table 5: Household Covid-19 status observations

Dataset 5: household COVID-19		
Variable	Label	Value/Notes
NodeId	SAPRIN Node identifier	
ProxyID	Household Proxy respondent ID	
HouseHoldID	Household ID (anonymized)	
Sex	Sex of proxy responded	Male; Female
DoB	Date of Birth of proxy responded	dd-mm-yyyy
ObservationDate	Date of status observation	dd-mm-yyyy
ar01	Hear of COVID-19	Yes; No
ar03	Over the past 7 days, what things have you or your household done as a result of COVID-19 or Coronavirus? (Multiple response, hot-one encoding)	Avoided crowded areas Avoided socializing Avoided church Avoided going shopping (markets, stores) Avoided going to restaurants/bars/pubs Avoided going to doctor/health centre/clinic Avoided going to school/university Avoided taking taxis Avoided going outside Avoided going to work Avoided travelling long distances Tried to avoid physical contact with people Avoided family members Avoided friends Washed hands more often

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		<p>Avoided touching own face</p> <p>Used face masks</p> <p>Used gloves</p> <p>Used hand sanitizer</p> <p>Other</p> <p>Nothing</p>
xx01	How much do you feel you know about the COVID-19 pandemic today?	<p>Less than I should know</p> <p>A little, but not enough</p> <p>Enough</p> <p>A little more than most people</p> <p>I am up to date on the latest research</p>
xx11	Where do you get information about COVID-19 that you trust? (Multiple response, hot-one encoding)	<p>Newspapers/new websites</p> <p>Radio</p> <p>TV</p> <p>Government websites</p> <p>Social media (Facebook, Twitter, YouTube)</p> <p>Forwarded email, WhatsApp</p> <p>Other websites</p> <p>Friends, family, colleagues</p> <p>Posters, billboards</p> <p>Health workers, clinic materials</p> <p>Traditional healers</p> <p>School</p> <p>Church</p> <p>Community leaders</p> <p>Other</p>
xx01	How much do you feel you know about the COVID-19 pandemic today?	<p>Less than I should know</p> <p>A little, but not enough</p> <p>Enough</p> <p>A little more than most people</p> <p>I am up to date on the latest research</p>
hv01	Thinking of the whole of yesterday, did anyone visit your home who did not sleep in the house the previous night?	Yes; No; Don't Know

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hv02 hv01==Yes	How many such visitors were there yesterday? If you are not sure, please make your best guess.	
hs11	Does anyone in your household usually take a daily medication for a long-term health condition?	Yes; No; Don't Know
hs01 hs11==Yes	To your knowledge does everyone in your household who usually takes a daily medication had access to all necessary doses over the last 7 days?	Yes; No; Don't Know
hs12 hs01==No	What was the <u>main</u> reason someone in your household was not able to access daily medication over the last 7 days?	Afraid of get medication because of COVID-19; Lockdown restricted me from going out; Unable to go out for other reasons; Medicine out of stock; Unable to afford medication; Other
tm11	In the past four months, has anyone moved into your address because of the COVID-19 pandemic?	Yes; No
tm12	Since March 2020, has anyone left your address and moved elsewhere because of the COVID-19 pandemic?	Yes; No
hi01	Over the past seven days, have you or any member of your household wanted to access healthcare but have been unable to do so?	Yes; No; Don't Know
hi11 hi01==Yes	What was the main reason for not being able to access	Afraid to go out due to COVID-19 Lockdown restricted me from going out

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	healthcare. (Multiple response hot-one encoding)	Unable to go out for other reason Unable to afford Clinic closed Other
hi03	Over the past 7 days, has your family been able to get all food and other household necessities they need?	Yes; No; Don't Know
hi12	Over the past 30 days, have any of the following sources of household income decreased? (Multiple responses, hot-one encoding)	Employment income – lost job; Employment income – unpaid leave; Business income; Government grants; Money from friends or family; Other; Household had no income before; No income source has decreased
hi14	Over the past 30 days, has your household received any COVID-19 support, such as food parcels	Yes; No; Don't know
ch11	Are there any children in your household who were going to school in February 2020?	Yes; No; Don't Know
ch12 ch11==Yes	Over the past 7 days, how have these children been <u>primarily</u> accessing education?	In-person at school Through a school-based internet program Through TV/radio programs at home From household members at home They received no education It has been school holidays
ch13 ch11==Yes	Over the past 7 days, has your household experienced difficulties with providing childcare?	Yes, a lot Yes, a little No
co11	Since March 2020, do you feel like things in general in your community have changed for the better or worse?	Got better; stayed the same; got worse

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co12	Since March 2020, do you feel like things in your household have changed for the better or worse?	Got better; stayed the same; got worse
so11	Has your living arrangement changed because of the COVID-19 pandemic?	Yes; No
s012 so11==Yes	How has it changed? (Multiple response. hot-one encoding)	I moved to my current address temporarily; Another person (e.g., sibling, adult, child, parent) has moved into my address; Another person I lived with has moved elsewhere
	Compared to in 2019, before the COVID-19 epidemic, how have the following situations changed, in your community?	
s014	Violence against women	Increased; Stayed the same; Decreased; Don't know
s015	Violence against men	Increased; Stayed the same; Decreased; Don't know
s016	Violence against children	Increased; Stayed the same; Decreased; Don't know
s017	Child neglect	Increased; Stayed the same; Decreased; Don't know
s018	Marital problems (separation/divorce)	Increased; Stayed the same; Decreased; Don't know

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