# Covid-19 impact on HIV care continuum among men who have sex with men in South Africa: a doctoral study protocol

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### **KEY FINDINGS**

The Covid-19 pandemic negatively impacted the provision, access and utilization of HIV treatment services among key populations (KPs) including Men who have sex with Men (MSM). Objective 1 of the study (systematic review) has showed that there were limited key population-specific interventions (three) implemented to mitigate the impact of Covid-19 on HIV treatment services in included Sub-Saharan African studies. Differentiated service delivery interventions were implemented among KPs across physical and virtual locations. These interventions demonstrated improvements in HIV treatment linkage, initiation, and viral suppression. Objective 2 has shared the personal experiences of MSM (beneficiaries) and stakeholders from an MSM HIV Prevention Programme in Capricorn District, Limpopo Province. This was guided by the Consolidated Framework for Implementation Research (CFIR). The beneficiaries have expressed that Covid-19 was a life-changing event that disrupted their daily lives and access to HIV services including ART, condoms and lubricants. It has led to some defaulting on ART due to movement restrictions and fear of Covid-19. The stakeholders have expressed that they have implemented innovative interventions to continue catering for the HIV treatment needs of the MSM such as safe-space HIV testing and offering transport to fetch ART at the nearest public facilities. The partnerships and connections they have established with the Department of Health and other non-governmental organizations have also helped to ensure service provision to the MSM despite the complications brought by Covid-19. Programme data analysis (objectives 3 and 4) will further quantify Covid-19 impacts by reporting an interrupted time series analysis on HIV treatment outcomes.

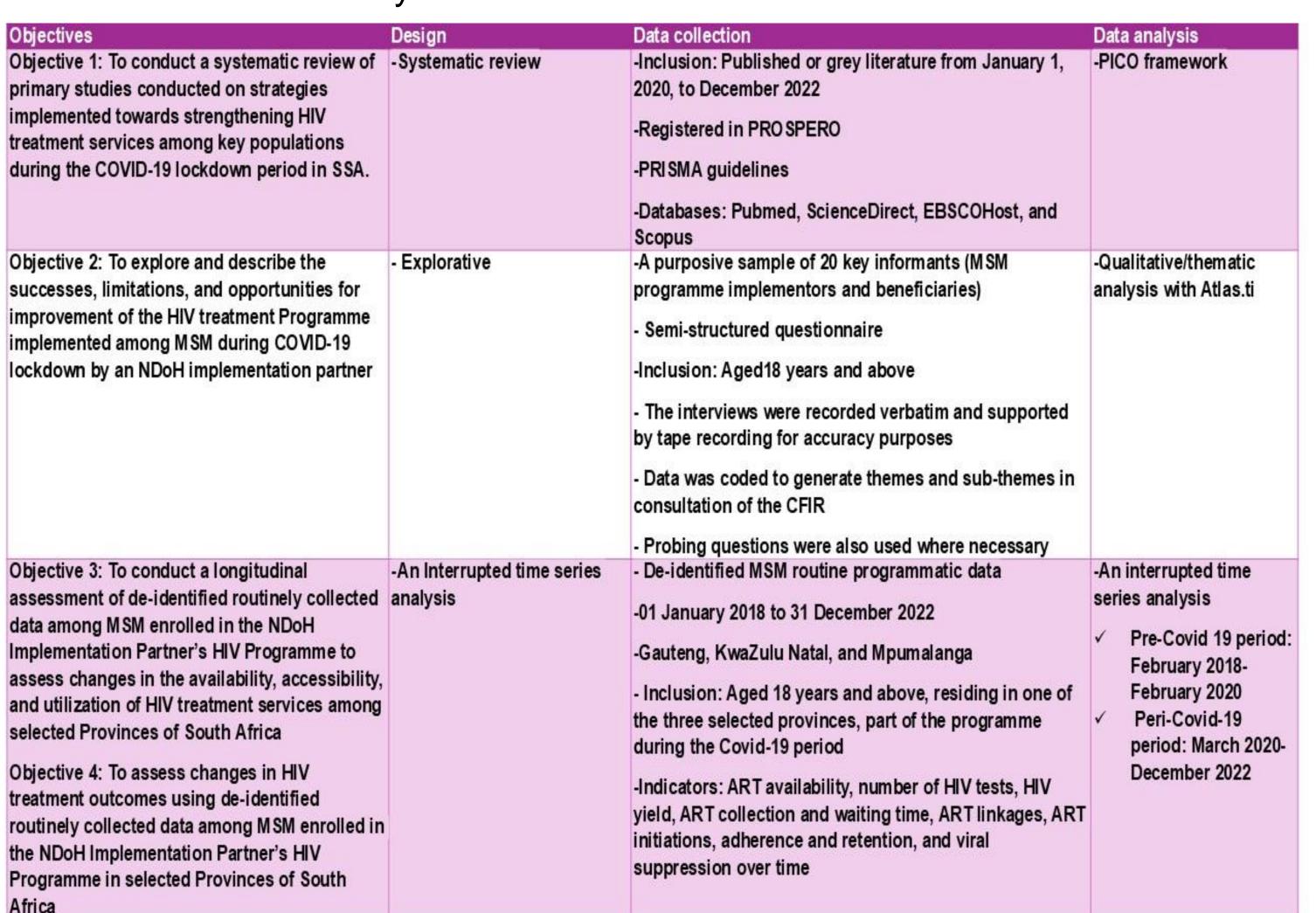
#### BACKGROUND

- South Africa continues to bear the greatest burden of HIV with approximately 8.45 million people living with HIV (PLHIV) and an estimated 164,000 new HIV cases in 2022 [1].
- The HIV pandemic substantially affects key populations (KPs) including men who have sex with men (MSM, e.g., gay, bisexual etc).
- Key populations and their sexual partners accounted for 51% of new HIV infections in Sub-Saharan Africa (SSA) in 2021 [2].
- ♦ Men who have sex with men have a 22 times higher risk of contracting HIV than their counterparts in the general population between the ages of 15 and 49 years [3].
- Key populations experience barriers such as violence, stigma and discrimination limiting their accessibility and utilization of healthcare services, inclusive of HIV care services.
- ❖ In addition to these long-standing barriers, the emergence of the coronavirus disease 2019 (Covid-19) pandemic has disrupted the provision of HIV services in this population.
- ❖ This study aims to assess the impacts of Covid-19 on the HIV treatment continuum among MSM towards strengthening linkage and retention in care in selected Provinces of South Africa.

## **METHODS**

This study will be conducted using a mixed method approach to answer the following four objectives:

**Table 1:** Summary of methods i.e., objectives, study design, data collection methods and data analysis



MSM: Men who have Sex with Men; SSA: Sub-Saharan Africa; NDoH: National Department of Health; ART: Antiretroviral Therapy; CFIR: The Consolidated Framework for Implementation Research; PRISMA: Preferred Reporting Items for Systematic Reviews and Meta-Analyses; PROSPERO: The International Prospective Register of Systematic Reviews; PICO: Population, Intervention, Comparison, Outcome Framework

# RESULTS

The results are presented by objective.

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## **Objective 1:**

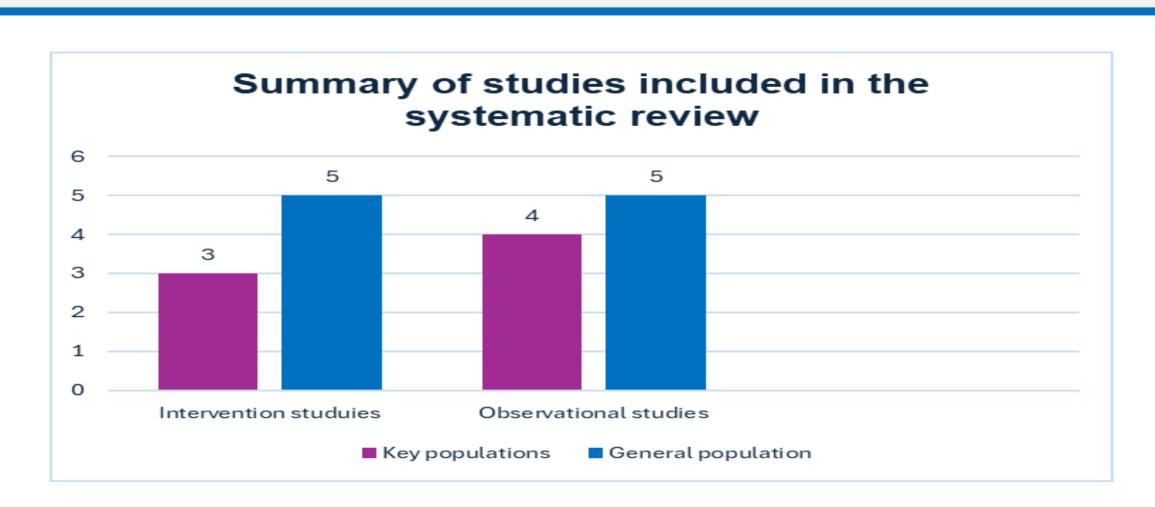


Figure 1: Summary of included studies

Table 2: Summary of main findings from selected included studies

Intervention studies			
First Author and country	Target population	Intervention	Main findings
Katbi et al., 2022; Nigeria	MSM, FSW, PWID, and TG	DSD	HIV linkage rates started to increase after the COVID lockdown period with significant linkage to care rates (100% new HIV cases linked to ART) recorded between June to Sept 2020.
Meeting Targets and Maintaining Epidemic Control (EPIC) Project, 2021; Namibia	KPs	Quickres (a website that enables online appointment for health services)	Increased ART initiation and adherence, 95% of key populations on ART had their viral loads suppressed.
Oryokot et al., 2021; Uganda	General population	Multi-month ART dispension	6 months ART refills seemed to offer higher participation of the PLHIV in care.
CDC, 2020; Tanzania	General population	Community-based ART	The medical facilities were less crowded. Moreover, 3,506 people received community ART.
Observational studies			
Macharia et al., 2021; Kenya	Male sex workers	-	Due to the lack of medication delivery for ART and increasing transportation expenses, together with concerns about contracting COVID-19, ART accessibility has been severely restricted.
Moyo et al., 2022; Zimbabwe	Female sex workers	-	Participants had to present authorization letters in order to get through police roadblocks in order to receive ART from medical facilities. There is little client-provider interaction and the perception that healthcare providers were rushing.
Benade et al., 2022; South Africa	General population	-	The COVID-19 pandemic and the countermeasures to the pandemic greatly reduced the number of PLHIV initiating treatment in South Africa.
Linnemayr et al., 2021; Uganda	General population	-	76% of respondents believed that COVID-19 negatively affected their ability to visit HIV clinics, 54% believed that doing so increased their likelihood of contracting the virus, and 14% said that COVID-19 had negatively impacted their ability to adhere to their ART.

## **Objective 2:**

♦ 16 MSMs were interviewed, aged 20 to 38 years; mean age=27,9 years.

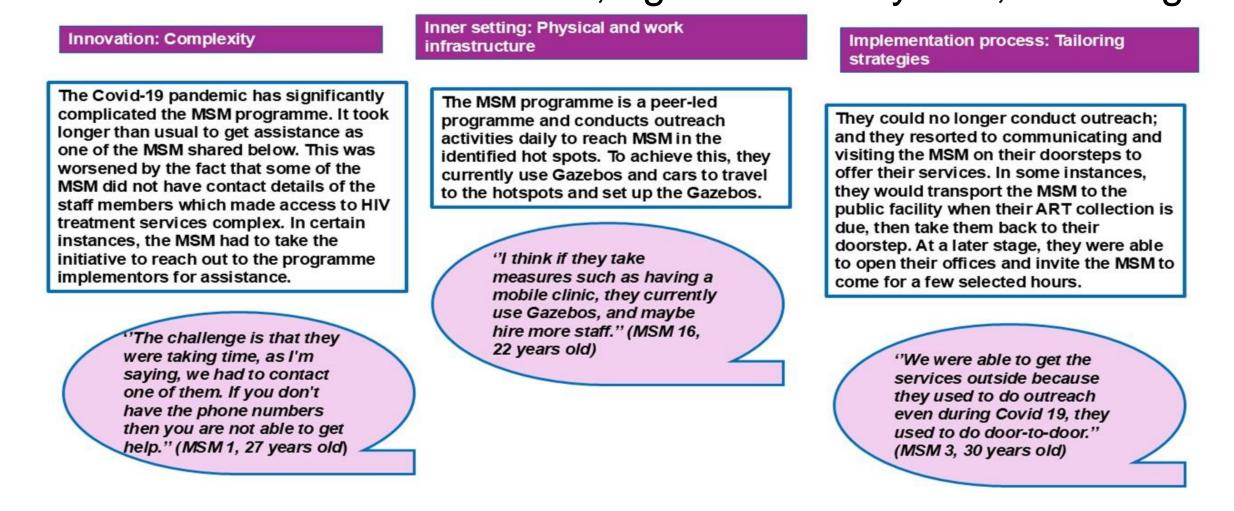


Figure 2: Summary of qualitative results from men who have sex with men based on the consolidated framework for implementation research constructs

Objectives 3 and 4: Currently underway, results not yet available.

## **CONCLUSIONS**

- The Covid-19 pandemic has negatively impacted the access and use of HIV treatment services for MSM, leading to poor treatment outcomes.
- Investing in and classifying such interventions as essential services will ensure prioritization and fewer disruptions in the provision of HIV services to the MSM in similar settings, leading to progression in meeting the 95-95-95 UNAIDS goals and ending HIV as a pandemic.

## **ADDITIONAL KEY INFORMATION**

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