

# Improving perioperative pain management in South Africa: Does a bundle approach to care improve postoperative pain in a middle-income country? [WE496]

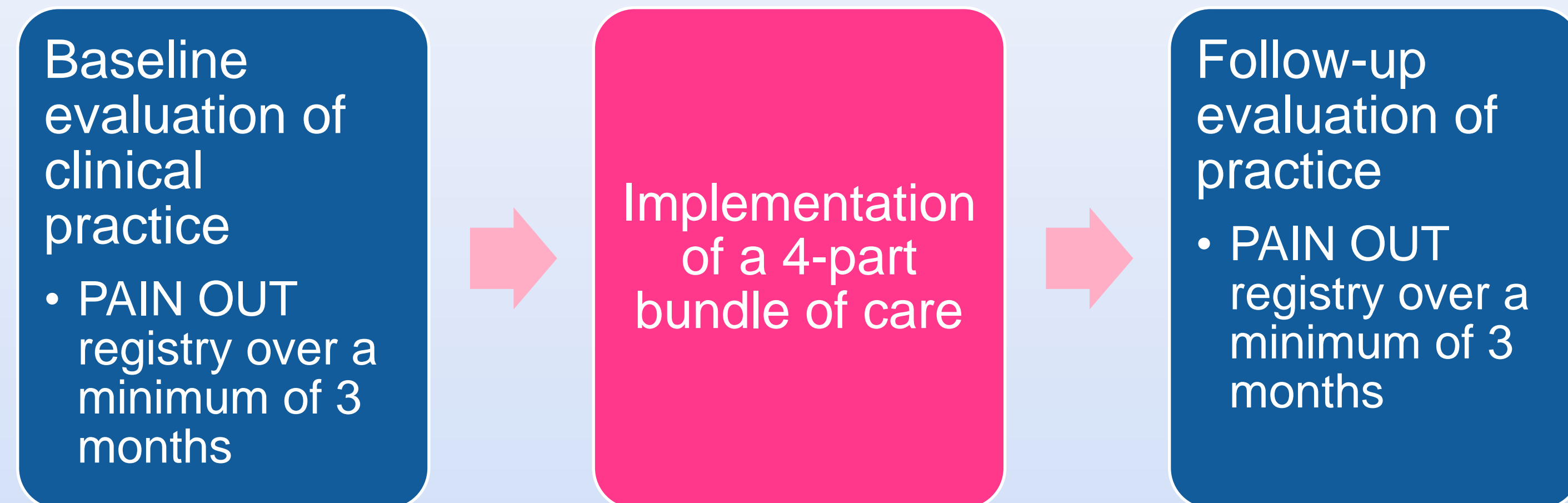


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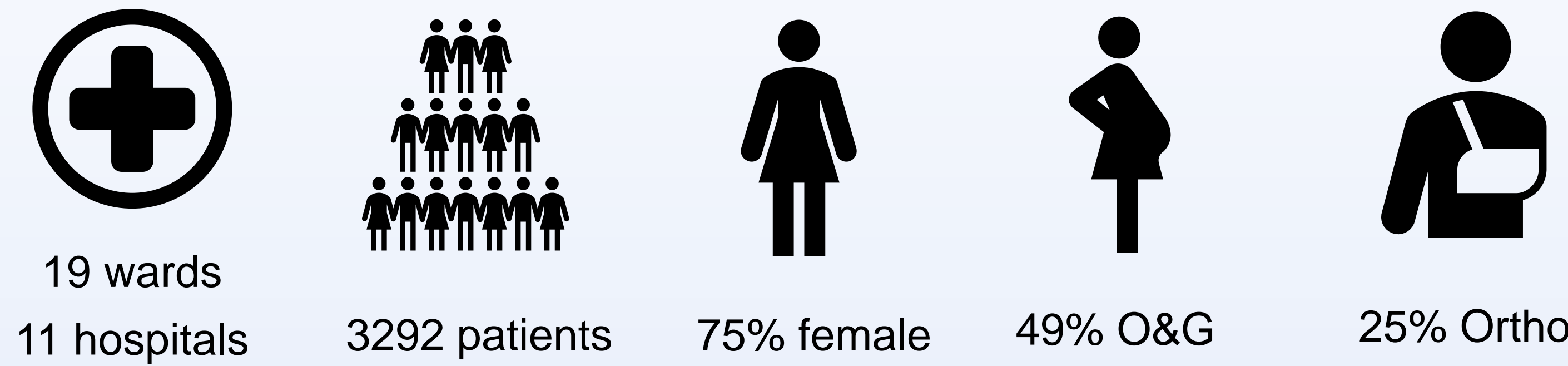
## Background

Perioperative pain management is a crucial determinant of patient outcomes and satisfaction, posing unique challenges in middle-income countries like South Africa. This study, utilizing the international PAINOUT registry, aimed to improve postoperative pain using a quality improvement approach.

## Methods



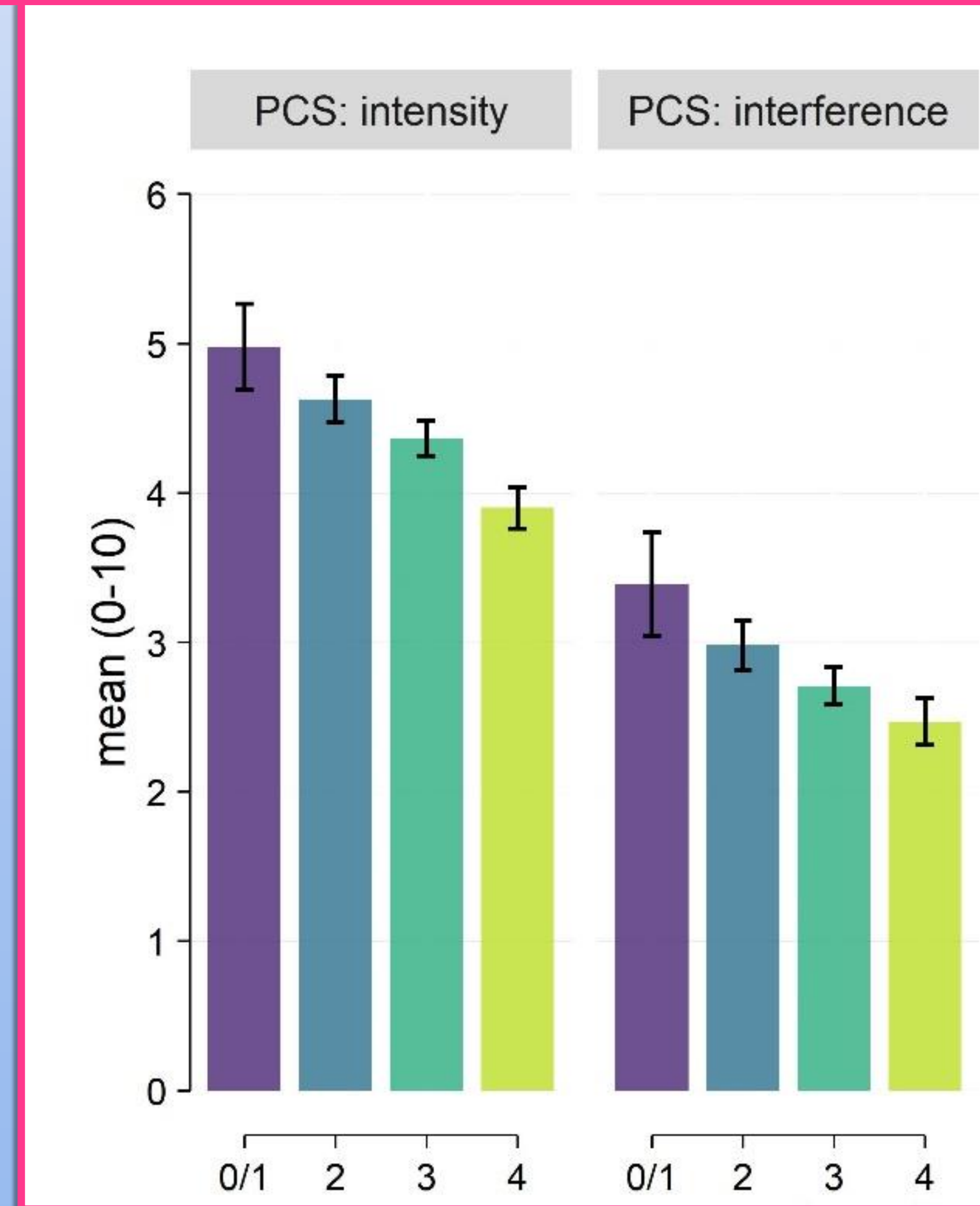
## Results



Post bundle implementation there was a

- Significant reduction in N in severe pain
- Significant reduction in pain interference

The 4-part perioperative treatment bundle is associated with better patient-reported outcomes



Outcomes improve as the number of bundle elements applied increases

## Results

- ✓ There was a significant increase in the number of patients receiving the full bundle in the follow-up evaluation phase.
- ✓ Pain intensity and pain interference significantly improved after implementation of the bundle.
- ✓ The 4-part perioperative treatment bundle is significantly associated with better patient-reported outcomes.
- ✓ In a South African context, the most effective bundle elements were:



Providing patients with information on pain management



Ensuring a full daily dose of non-opioids.

## Conclusion

A four-part perioperative pain management bundle was implemented to address challenges in perioperative pain management in South Africa. The four-part bundle's multifaceted nature, encompassing standardized protocols, multidisciplinary collaboration, education, and improved communication, significantly improved postoperative pain outcomes.

These results underscore the importance of comprehensive and collaborative approaches to pain care, emphasizing the need for standardized protocols, education, and multidisciplinary teamwork. Bundled interventions incorporated into perioperative care practices may enhance patient outcomes and satisfaction, ultimately improving healthcare delivery.

## Acknowledgements

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Ethical approval has been granted by the Stellenbosch University Health Research Ethics Committee (Ref N19/10/140).