# SOUTH AFRICAN ORTHOPAEDIC REGISTRY

### STANDARD OPERATING PROCEDURE

Version 5 – September 2025

# 1. INTRODUCTION

The objective of the South African Orthopaedic Registry (SAOR) is to accurately and comprehensively collect data pertaining to patients with orthopedic admissions in South Africa (SA). The information will allow the South African Orthopaedic fraternity (under the auspices of the South African Orthopaedic Association) to audit its patient outcomes accurately to ensure that the best possible care is provide to all patients.

The SAOR will serve the main purpose of clinical auditing and peer-review

The specific objectives being to:

- provide a platform for peer-review
- provide a platform for auditing of patient outcomes
- allow for uniform collection of data within SA
- provide a platform for retrospective research
- allow rapid identification of participants for new treatments / therapies (if/when applicable)
- encourage collaboration between Orthopaedic surgeons and institutions within SA

The SAOR is hosted by the University of Cape Town, with the Health Research Ethics Committee (HREC) being the primary overseeing committee of the registry for research purposes. The SAOR steering committee aims to have members from throughout South Africa. All contributing institutions and individual Orthopaedic surgeons will be considered as data sources.



## 2. PROCEDURE

### a. Participating sites / data sources

All active members of the South African Orthopaedic Association (SAOA) will act as participating sites. These include all academic institutions (as listed below) as well as all private orthopaedic surgeons and hospitals within South Africa. (A list of names is available upon request).

Contributing academic institutions include:

- Division of Orthopaedic Surgery, Stellenbosch University
- Department of Orthopaedic Surgery, University of Cape Town
- Department of Orthopaedics, University of the Free State
- Department of Orthopaedics Surgery, Sefako Makgatho University
- Department of Orthopaedics, University of Pretoria
- Division of Orthopaedic Surgery, University of Witwatersrand
- Department of Orthopaedic Surgery, University of KwaZulu-Natal
- Department of Orthopaedics, Walter Sisulu University

#### b. Patient identification

Any patient undergoing an Orthopaedic procedure (elective or emergency) at any of the participating sites will be included in the registry.

### c. Inclusion in the SAOR

It is important to note that all patient data will be routinely captured onto the registry for *clinical* purposes. Each participating site will have access to their own patient data, as per routine, standard of practice record-keeping procedures.



# South African Orthopaedic Association

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Patients' data may be used for i) site auditing and ii) peer review procedures, as part of routine

clinical governance. In cases where investigators would like to retrospectively access routinely

collected data for research purposes, they will need to provide a written motivation, together

with a motivation for a waiver of informed consent, and only anonymized data will be released.

The procedures for accessing data for peer review, auditing or research purposes are outlined

elsewhere in this document.

d. Allocation of unique Registry ID

All patients will be assigned a unique registry ID as soon as their information is captured on the

online registry. This unique number will be used to de-identify patient details.

Although patient identifying details will still be collected as part of routine clinical work, data

used for clinical auditing, peer review or any potential retrospective research purposes will only

be identified using the unique participant number. No patient identifying details (such as name,

family name or file/hospital number), will be made available for these purposes under any

circumstances.

e. Patient care

Patient contact at all participating sites will continue as per routine practice. All clinical

information will be collected by the attending orthopaedic surgeon.

f. Data capture

Each participating site will continue to capture data as per their normal, standard of practice

protocols. These protocols might vary between sites, with some sites utilizing hard copy forms

whilst others might capture information directly (via tablets/laptops in the clinics) onto the

registry. Some sites already routinely use the secure, electronic registry platform (Amplitude)

for clinical purposes. It is important to note that routine protocols, as part of medico-legal

requirements, will be followed. Hard copy forms will be stored securely and on-site, as

required by each individual institution/practice.



# g. Registry platform

A dedicated, secure, electronic Amplitude database platform is utilized for the SAOR. Each individual user at each individual site has their own personal username and password for accessing the platform. All data processing is subject to the Data Protecting Act (1998) (refer to the Data Protection and Patient Confidentiality attachment). Backups are made on a daily basis, and all website traffic is encrypted.

### 3. REGISTRY MANAGEMENT

# i. Registry managing team

Dr Marc Nortje (UCT) is the current chairperson of the SAOR. All decisions pertaining to the SAOR will be made by the SAOR - steering committee consisting of 16 members - these include: Dr Ashley Arakkal (private), Dr Brian Bernstein (private), Dr Bryan Botha (Universitas), Dr Elsabe Britz (SUN), Dr Shaun de Villiers (private), Dr Vuyu Gezengana (UFS), Prof Sam Golele (SMU), Dr Thomas Hilton (UCT), Dr Joseph Chalumkal John (Walter Sisulu University), Dr Odette Koch (private), Dr Neil Kruger (private), Dr Maritz Laubscher (UCT), Dr Lisandro Mora (Walter Sisulu University), Dr Phakamani Mthethwa (UKZN), Dr Megan O' Connor (UKZN) Prof Archie Rachuene (UP) and Ms Bhindu Morar (SAOA).

The SAOR-steering committee will be responsible for the maintenance of the database. An Amplitude login will be made available to other users at each participating site, to allow data entry into the database. This login will only allow data entry as well as access to each site's own captured data and will not give access to any other aspect of the registry information (including other independent sites or collective information).



# j. Registry Access

Access to the Amplitude electronic database will be password-protected. The password will be changed periodically to ensure confidentiality.

Any participating site has the right to request access to database information for i) audit, peer-review and ii) retrospective research purposes. Each site has access to their own site's captured information and can download that information directly from their own Amplitude accounts. Should a site want to access their own data for research purposes, the normal ethical and institutional protocols at each independent site will be followed

Any requests to use data for audit or research purposes, when data from more than the contributing site is involved, will be handled as outlined below:

- A research protocol application must be submitted to the individual's local Research
   Ethics Committee (REC)
- 2. Once approved by the local REC, the protocol together with the proof of ethical approval and official SAOR application form must be submitted to the SAOR-steering committee, via the official SAOR email address (registry@saoa.org.za).
- 3. The SAOR Chairperson (or a delegate from the SAOR steering committee in cases where a conflict of interest exists) will review the application to ensure that i) all documentation are in order and ethics approvals are current, ii) there is no possibility for institutional (SAOA) harm, and iii) data will be destroyed once it has fulfilled the purpose outlined in the research protocol. The SAOR steering committee will be informed of data requests and can be consulted during the review of data requests at any point. Once approved by the SAOR-steering committee, one of the members of the steering committee will release the requested data to the investigators.
- 4. The researchers will not be given access to the registry itself.
- 5. Only anonymized data will be released researchers will not be provided with any patient identifying details.
- 6. All records associated with data application requests will be securely stored by the SAOR secretary for recording -keeping and reporting purposes.



7. Researchers will be expected to report any outputs related to SAOR data to the SAOR, for record-keeping and reporting purposes, via the official SAOR email address (registry@saoa.org.za).

### k. Storage of registry-related documentation

Any registry-related documentation will be stored on secure, password - protected computer of the SAOR secretary. These forms will mostly be managed and stored electronically.

Any hard copies of documentation will be stored at each independent contributing site, as outlined earlier.

An annual progress report will be submitted to SUN HREC, listing the following relevant information:

- · Number of patients added to the database
- Number of research studies applying for access to registry information (to be linked with relevant REC numbers)

Number of outputs related to registry research (including conference and publication outputs).

# 4. DISSEMINATION OF INFORMATION GENERATED FROM THE DATABASE

The overarching goal in the establishment of this registry is to provide better care in the field of orthopedic surgery through uniform data collection, service audits, peer-review and retrospective research.

As such, any findings that originate from this database will be disseminated to the local and international orthopedic community through:

- Podium presentations at national and international conferences.
- Publications in local and international peer reviewed journals.

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