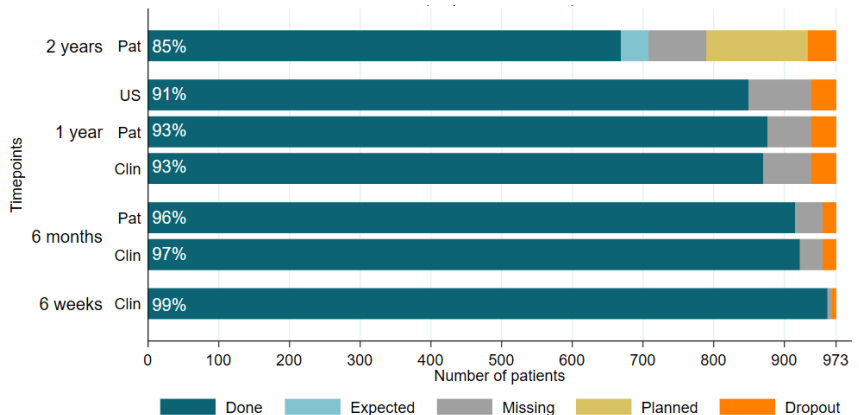




Surgical safety and effectiveness in orthopedics: Swiss-wide multicenter evaluation and prediction of core outcomes in Arthroscopic Rotator Cuff Repair

Towards the end of 2-year follow-up

We documented the 2-year questionnaire from 669 active participants, representing **85% of expected ARCRs**. This final follow-up should be completed towards the end of the year.



Facts

19 clinics

151 project staff

981 patients operated

973 cuff tear repairs

99% 6-week follow-up

95% at 6 months

89% at 12 months

85% of 790 at 24 months

40 (4.1%) dropout

98.2% of 10'942 collected

forms have no missing

data

Validating adverse event (AE) data

We are systematically checking the consistency of AE data from patients completing their 24-month questionnaires, whether reported by patients, clinical staff or both. We send 710 short surveys to patients and surgeons to validate the severity grading of local AEs, and assess their causality and preventability, of which 82% were completed.

We currently documented 308 postoperative local AEs in 286 ARCRs (29.4%)
[22 ARCRs experienced 2 events]

Reported by ...



AE severity*	N	%
Grade I	191	62%
Grade II	72	23%
Grade III	42	14%
Grade IV	3	1%

*Felsch et al. Arthroscopy 2021 (adapted from Dindo et al. Ann Surg. 2004 and Sink et al. J Bone Joint Surg Am. 2011)

Status of MRI study

The recruitment of 310 patients in the MRI study is achieved from 9 sites. We are expecting to complete data collection from all pairs of US and MRI examinations within the coming 2 months after a period of data check and validation.

Prolongation of the end of the study

The SNF approved a prolongation of our study until September 2024.

Milestones achieved:

- **Last 1-year follow-up** performed in **January 2023**
- A.M. Müller and L. Audigé gave a webinar about the project on the **BeeMed** platform (<https://beemed.com/econgresses/168>)
- **First closure visits** performed early 2023 for 3 sites
- Manuscript entitled "**Baseline characteristics of the ARCR_Pred study**" submitted in PLOS ONE in May 2023

Our next ARCR_Pred project meeting will take place
at the Swiss Orthopaedic Congress, Olma Messen St. Gallen
Friday June 23, 2023 (11:30 - 12:30), Room: 9.2 B !



Outlook:

1. **Presentation of study results at various international congresses** (SGOT, DVSE, ICSES, AGA and BESS) starting [June 2023](#)
2. **Second Delphi process** for the identification of clinically relevant prognostic factors for shoulder functional outcomes after ARCR [by end of Summer 2023](#)
3. **Update and validation of a clinical prediction model for the occurrence of postoperative shoulder stiffness** to be completed [by end of September 2023](#)
4. Many other planned analyses and publication on-going ... 😊
5. **Next newsletter** [by end of December 2023](#)
6. **24-month database locking** for analyses [by January 2024](#)

Martina Wehrli

Our dedicated project core team member at Schulthess Klinik will leave her position at the end of August 2023. Martina has been very helpful in the area of study planning, data check and validation, as well as the preparation of our Newsflash and Newsletters. Thank you, Martina !

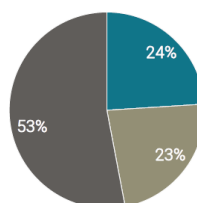
Postoperative management data

Postoperative management is often described as a clinic-level procedure. In this study however we interviewed patients on what they effectively performed. After much data cleaning, Jan Schätz (Research assistant at KWS) investigated the profile of patients regarding medication, immobilization and rehabilitation procedures using Latent Class Analysis methodology, allowing for an identification of classes describing these data. Identified classes regarding immobilization are presented below.

Immobilization management



- Standard Group
- 6 weeks immobilization
 - Varying Positions
 - Passive motion first week
 - Active motion before or after 6 weeks
 - ROM limits



Conservative Group

- 6 weeks immobilization
- Conservative position
- Passive motion 2-6 weeks
- Active motion after 6 weeks
- ROM limits

Progressive Group

- Less than or 6 weeks immobilization
- "Sling position" or no device
- Passive motion in first week
- Active motion before or after 6 weeks
- No ROM limits

ROM = Range of Motion

Status of analysis / reporting

Our publication database contains 73 ongoing topics for publication. While 3 topics (protocol and 2 systematic reviews) are already published and available from the project website (see below), 36 others are being addressed at various project sites. For any registered project team member, this is the time to contact Laurent Audigé to coordinate the data sharing, analysis and publication processes. Please note that we issued guidelines for presentations and publications regarding authorship, project group name and acknowledgement of funding sources.

Keep updated from our project website

<https://arcr-pred.ch> or QR code



We thank you for the fruitful collaboration !

Confidentiality Statement:

This document contains strictly confidential information which serve to inform project stakeholders. This newsletter should not be copied or passed on to an uninvolved party - in whole or in part - without the writing consent of the project leaders.

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