

## Treatment of patellofemoral osteoarthritis with nasal chondrocyte-based engineered cartilage implantation in a randomized, controlled, multicenter phase II clinical trial

Trial registration number:

Duration:	01.04.2024-28.03.2028
Status:	Ongoing
Contributor:	Sarina Seitz, Dr. Corina Schuster-Amft
External collaborator:	PD Dr. med. Marcus Mumme - Universitätsspital Basel, Prof. Dr. Ivan Martin - Universitätsspital Basel, Anke Wixmerten - Univer- sitätsspital Basel
Contact:	s.seitz@reha-rhf.ch, c.schuster@reha-rhf
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Short summary:	There are currently no treatment methods clearly recommended by the guidelines for the treatment of patellofemoral osteoarthri- tis (PFOA). With the implantation of cartilage produced from na- sal cartilage cells (N-TEC), the cartilage surface could be rebuilt for the first time. A phase II study is planned with 75 patients with patellofemoral osteoarthritis. The patients will be randomly divided into two groups.One group will be treated with the engi- neered nasal cartilage, while the other will receive the standard therapy with platelet-rich plasma (PRP). After the intervention, all participants receive a physiotherapy programme for at least 18 weeks. For evaluation, standardised questionnaires are com- pleted, physiotherapy assessments are performed and a MRI examination is carried out to check the cartilage surface. Follow- up measurements are planned for up to two years after the inter- vention.