

# INPLASY

## Lower trapezius transfer in the treatment of rotator cuff injuries: a systematic review

INPLASY202480081

doi: 10.37766/inplasy2024.8.0081

Received: 16 August 2024

Published: 16 August 2024

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### ADMINISTRATIVE INFORMATION

**Support** - Independent.

**Review Stage at time of this submission** - The review has not yet started.

**Conflicts of interest** - None declared.

**INPLASY registration number:** INPLASY202480081

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 16 August 2024 and was last updated on 16 August 2024.

### INTRODUCTION

**Review question / Objective** How efficient is the lower trapezius transfer technique for the treatment of rotator cuff injuries?

**Rationale** The present study is justified by the high prevalence of rotator cuff injuries in the population, and the need for a diversity of efficient techniques available for the treatment of this pathology, focusing on the use of biological techniques in patients eligible for the method.

**Condition being studied** Rotator cuff injuries are a common cause of shoulder pain in people of all ages. This pathological condition represents a spectrum of diseases, ranging from acute reversible tendonitis to a massive injury involving all its components. The gate signs (inability to maintain maximum active external rotation in adduction) and the "hornblow sign" – which is the

inability to maintain maximum active external rotation in 90° abduction – demonstrate rotator cuff injuries external and are generally present in massive chronic irreparable injuries.

### METHODS

**Search strategy** The methodological strategy aims to search databases in the research bases pubmed, Medline, bireme, lilacs. The keywords used will be cuff/rotator/lower trapezius/transfer/vector. For systematic assistance, the PRISMA method will be used.

**Participant or population** Systematic literature review research, patient with inclusion criteria: human beings over 30 years of age, with rotator cuff injuries, eligible for the surgical technique of muscle transfer of the lower trapezius.

**Intervention** Not applicable.

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**Comparator** Not applicable.

**Study designs to be included** Cross-sectional, longitudinal, case-control, cohort studies, as well as clinical trials, that address the justification of the main question will be included in the study.

**Eligibility criteria**

Patients over 30 years old  
Presenting rotator cuff tears  
Eligible for muscle transfer technique  
Who have not undergone reverse shoulder arthroplasty.

**Information sources**

Pubmed  
Bireme  
Lilas  
Scopus.

**Main outcome(s)** The results to be scored after performing the lower trapezius muscle transfer technique for rotator cuff injuries include: improvement in the pain pattern, increased range of motion (range of movement) of the affected shoulder, increased quality of life and return to functional activities. Listing the main research question: effectiveness of lower trapezius transfer in rotator cuff injuries.

**Additional outcome(s)** The additional results aimed at are the academic contribution of the study to the treatment of shoulder pathologies, which is increasing with the aging of the population. Improving the functional life expectancy of patients.

**Quality assessment / Risk of bias analysis** The evaluation method will be based on the descriptive analysis of the systematic review data and the use of the PRISMA method for systematic reviews will be used to minimize the biases found.

**Strategy of data synthesis** Descriptive analysis method evaluation.

**Subgroup analysis** Subgroups analyzed by inclusion and exclusion criteria methodology.

**Sensitivity analysis** According to the refinement of the search proposed by the study.

**Country(ies) involved** Brazil.

**Keywords** Rotator cuff - Lower trapezius - Transfer - vector.

**Contributions of each author**

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