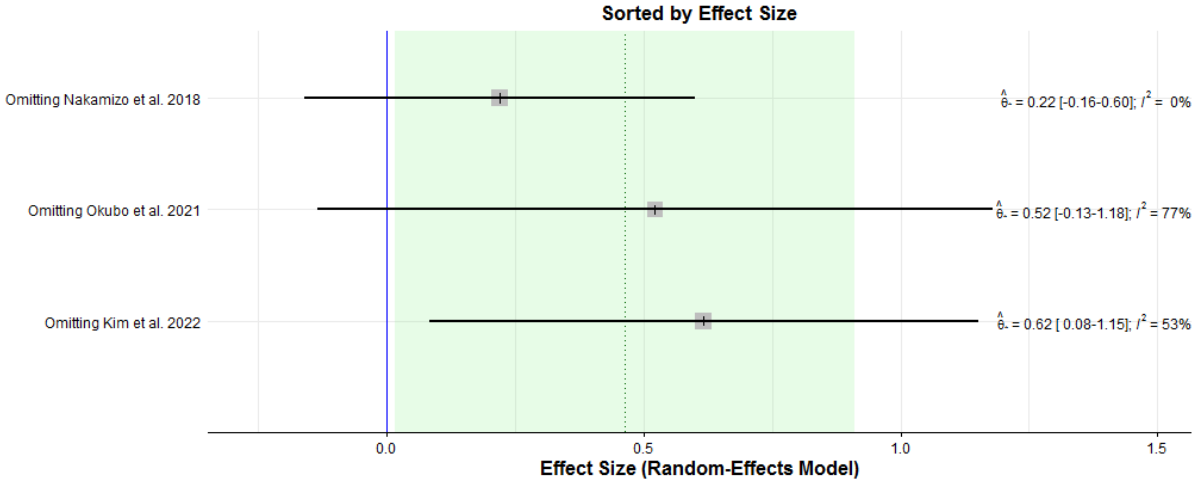


Supplementary Figure 1. Postoperative range of external rotation before sensitivity analyses



Supplementary Figure 2. Sensitivity analysis for postoperative range of external rotation

Supplementary Table 1. List of Evaluated Full Text Articles and Reasons for Exclusion

Year	Journal	Author	Title	Reason for exclusion
2014	Arthroscopy techniques	Mori et al.	Arthroscopic lamina-specific double-row fixation for large delaminated rotator cuff tears	Technical note
2015	Journal of shoulder and elbow surgery	Gwak et al.	Delaminated rotator cuff tear: extension of delamination and cuff integrity after arthroscopic rotator cuff repair	Not relevant topic
2016	Journal of orthopaedic surgery and research	Cha et al.	Retraction pattern of delaminated rotator cuff tears: dual-layer rotator cuff repair	Innclusion of rotator cuff tears without delamination
2016	The American journal of sports medicine	Kim et al.	Surgical Results of Delaminated Rotator Cuff Repair Using Suture-Bridge Technique With All-Layers or Bursal Layer-Only Repair	Not relevant topic (comparison with bursal layer-only repair due to retraction)
2016	The American journal of sports medicine	Kim et al.	Conventional En Masse Repair Versus Separate Double-Layer Double-Row Repair for the Treatment of Delaminated Rotator Cuff Tears	Selected article
2016	Arthroscopy techniques	Mochizuki et al.	Repair of Rotator Cuff Tear With Delamination: Independent Repairs of the Infraspinatus and Articular Capsule	Technical note
2017	Arthroscopy: the journal of arthroscopic & related surgery	Kim et al.	Which is better between conventional en masse repair versus separate double-layer double-row repair for the treatment of delaminated rotator cuff tears: a prospective randomized study	Conference abstract
2018	BMC musculoskeletal disorders	Kakoi et al.	Clinical outcomes of arthroscopic rotator cuff repair: a retrospective comparison of double-layer, double-row and suture bridge methods	Study including rotator cuff tears without delamination
2018	Arthroscopy techniques	Heuberer et al.	An Arthroscopic Knotless Technique for Anatomical Restoration of the Rotator Cuff and Superior Capsule: The Double-Layer Cinch Bridge	Technical note
2018	Arthroscopy: the journal of arthroscopic & related surgery	Nakamizo et al.	Comparison of En Masse Versus Dual-Layer Suture Bridge Procedures for Delaminated Rotator Cuff Tears	Selected article
2018	Arthroscopy: the journal of arthroscopic & related surgery	Opsomer et al.	Arthroscopic Double-Layer Lasso Loop Technique to Repair Delaminated Rotator Cuff Tears	Case series
2018	Clinics in shoulder and elbow	Park et al.	Comparison of Clinical and Anatomical Outcomes between Delaminated Rotator Cuff Tear and Single Layer Rotator Cuff Tear	Not relevant topic
2018	The American journal of sports medicine	Pauzenberger et al.	Double-Layer Rotator Cuff Repair: Anatomic Reconstruction of the Superior Capsule and Rotator Cuff Improves Biomechanical Properties in Repairs of Delaminated Rotator Cuff Tears	Cadaveric study

2019	Knee surgery, sports traumatology, arthroscopy	Heuberer et al.	The knotless cinch-bridge technique for delaminated rotator cuff tears leads to a high healing rate and a more favorable short-term clinical outcome than suture-bridge repair	Selected article
2019	Arthroscopy: the journal of arthroscopic & related surgery	Kim et al.	Morphologic Factors Related to Repair Outcomes for Delaminated Rotator Cuff Tears: A Minimum 2-Year Retrospective Comparison Study	Not relevant topic
2019	Orthopaedic journal of sports medicine	Mori et al.	Clinical and Radiographic Outcomes After Arthroscopic Lamina-Specific Double-Row Repair of Large Delaminated Rotator Cuff Tears in Active Patients	Case series
2019	Indian journal of orthopaedics	Pandey et al.	Clinical and Structural Outcomes after Arthroscopic Repair of Medium- to Massive-Sized Delaminated and Nondelaminated Rotator Cuff Tears	Not relevant topic
2020	Journal of orthopaedic surgery and research	Chen et al.	Separate double-layer repair versus en masse repair for delaminated rotator cuff tears: a systematic review and meta-analysis	Review
2020	The American journal of sports medicine	Heuberer et al.	Delaminated Rotator Cuff Tears Showed Lower Short-term Retear Rates After Arthroscopic Double-Layer Repair Versus Bursal Layer-Only Repair: A Randomized Controlled Trial	Not relevant topic (comparison with bursal layer-only repair)
2021	Orthopaedic journal of sports medicine	Kim et al.	Surgical Treatment Outcomes for Everted Bursal Flap of Delaminated Supraspinatus Tear	Not relevant topic
2021	Journal of the Société Internationale de Chirurgie Orthopédique et de Traumatologie	Okubo et al.	Comparison of three suture-bridge techniques for large or massive rotator cuff tear with delamination	Selected article
2022	The American journal of sports medicine	Kim et al.	A Propensity Score-Matched Comparison Between Knotless Layer-by-Layer and En Masse Suture Bridge Techniques for Delaminated Rotator Cuff Tears	Selected article

Search strategy (MEDLINE/PubMed)

1. Rotator cuff [tiab] OR supraspinatus [tiab] OR infraspinatus [tiab] OR subscapularis [tiab] OR "teres minor" [tiab] OR "rotator cuff" [Mesh] OR "rotator cuff injuries" [Mesh] OR "rotator cuff tear arthropathy" [Mesh]
2. delamination [tiab] OR delaminated [tiab]
3. 1. AND 2.