Publication List

ShARC

Shoulder Arthroplasty Research Committee

2026

The global glenoid component inclination: why scapulothoracic orientation should be considered when defining glenoid component inclination in reverse total shoulder arthroplasty

Shekhbihi A, Raiss P, Modelhart M, Randlkofer LM, Herbst EC, Moroder P

J Shoulder Elbow Surg. Published online June 24, 2026. doi:10.1016/j.jse.2026.06.011

Prophylactic acromion pin fixation reduces catastrophic failure in weakened acromion biomechanical model of reverse shoulder arthroplasty

Werner BC, Denard PJ, Hoshika S, et al

JSES Int. 2026;10(2):101626. doi:10.1016/j.jseint.2026.101626

Midterm radiographic outcomes of short- vs. standard-length stems in reverse total shoulder arthroplasty are comparable with the Univers Revers system

Khorram R, Kohut K, Al-Humadi S, et al

Semin Arthroplasty. 2026;36(3):151593. doi:10.1016/j.sart.2026.151593.

Clinical outcomes of peel versus lesser tuberosity osteotomy subscapularis approach in stemless anatomic total shoulder arthroplasty

Shah A, Paul BR, Harmsen S, et al

Semin Arthroplasty. 2026;36(3):151597. doi:10.1016/j.sart.2026.151597

Clinical and radiographic survival rates of the Arthrex Univers VaultLock uncemented central-peg all-polyethylene glenoid component in anatomic total shoulder arthroplasty at 2- and 5-years postoperatively

Nazzal EM, Lin RT, McMahon S, et al

J Shoulder Elbow Surg. Published online June 1, 2026. doi:10.1016/j.jse.2026.05.021

Clinical and functional outcomes for bone tunnel vs. suture anchor lesser tuberosity osteotomy repair in total shoulder arthroplasty

Galal Y, Moroder P, Werner BC, Lederman E, Shah A

J Shoulder Elbow Arthroplasty. 2026;10(4):100072. doi:10.1016/j.jsea.2026.100072

High variability in the degree of liner stability ratio among glenoid components of different anatomical total shoulder arthroplasty systems

Shekhbihi A, Abdalla A, Modelhart M, Herbst EC, Raiss P, Moroder P

JSES Int. 2026;10(2):101614. doi:10.1016/j.jseint.2025.101614

Arthrex®

Virtual humeral planning for anatomic total shoulder arthroplasty with the Arthrex Eclipse prosthesis with pathologic humeri in a three-dimensional model

Werner BC, Lenters TR, Thakur S, Knopf D, Metcalfe N, Tokish JM

Semin Arthroplasty JSES. 2026;36(2):151581. doi:10.1016/j.sart.2026.151581

Cancellous allograft bone dowels for structural grafting in revision to reverse shoulder replacement

Patel M, Eischeid A, Parmar R, Harmsen S, Shah A, Lederman E

JSES Rev Rep Tech. 2026;6(3):100775. doi:10.1016/j.xrrt.2026.100775

Scapula anatomy influences simulated impingement-free range of motion in reverse shoulder arthroplasty

Greiner S, Denard PJ, Metcalfe N, et al

J Shoulder Elbow Surg. 2026;35(1):28-39. doi:10.1016/j.jse.2025.05.008

Stress shielding of the Univers Revers system in reverse shoulder arthroplasty is minimal and does not progress substantially from short- to midterm follow-up

Khorram R, Al-Humadi S, Kohut K, et al

J Shoulder Elbow Surg. 2026;35(2):e243-e249. doi:10.1016/j.jse.2025.05.032

Glenoid-sided lateralization decreases scapular notching with a 135° humeral component Arthrex reverse shoulder arthroplasty

Pak T, Kilic AI, Ardebol J, et al

J Shoulder Elbow Surg. 2026;35(2):e224-e232. doi:10.1016/j.jse.2025.05.044

2025

Individualizing glenoid lateralization to optimize range of motion after reverse shoulder arthroplasty with the Arthrex Univers reverse: a virtual assessment of the influence of scapular neck length using a statistical shape model

Werner BC, Denard PJ, Thakur S, Metcalfe N, Knopf D, Greiner S

J Shoulder Elbow Surg. 2026;35(2):e233-e242. doi:10.1016/j.jse.2025.06.024

Postoperative scapular neck length is associated with strength and rotational range of motion following reverse total shoulder arthroplasty with the Arthrex Univers Revers

Denard AD, Werner BC, Schuette HB, DeBruin AE; Shoulder 90 Arthroplasty Research Committee (ShARC) group, Sears BW

J Shoulder Elbow Surg. 2026;35(6):e664-e671. doi:10.1016/j.jse.2025.10.021

Preoperative planning and inferior glenosphere overhang increases the odds of achieving high internal rotation after Univers reverse total shoulder arthroplasty

Noble MB, Griffin JW, Sears BW, et al

J Shoulder Elbow Surg. 2025;34(10):2414-2421. doi:10.1016/j.jse.2025.01.018

Influence of humeral liner constraint in reverse total shoulder arthroplasty on simulated range of motion in patients with various posture types – a modeling study

Lappen S, Siegert P, Raiss P, et al

The Hive Musculoskeletal Journal. 2025;1(2). doi:10.70885/hmsj.2025.08.004

Influence of preoperative humeral head morphology on clinical and radiographic outcomes following total shoulder arthroplasty

Hawayek BJ, Werner BC, Brolin TJ, Lee J, Sears BW, ShARC

JSES Int. 2026;10(1):101395. doi:10.1016/j.jseint.2025.09.015

The effect of the central post and screw constructs on the Univers Revers total shoulder system

Scofield H, Gunnison MJ, DesJardins J, et al

J Shoulder Elbow Surg. 2025;34(6 suppl):S28-S35. doi:10.1016/j.jse.2025.02.006

Patient characteristics are more important than preoperative radiographic factors in predicting the risk of acromial stress fracture following reverse total shoulder arthroplasty

Noble MB, Galasso LA, Werner BC, Denard PJ

J Shoulder Elbow Surg. 2025;34(6 suppl):S1-S9. doi:10.1016/j.jse.2025.01.022

Convertible humeral and glenoid components for anatomic shoulder arthroplasty

Burrus MT, Bedi A, Werner BC

J Am Acad Orthop Surg. 2025;33(7):346-351. doi:10.5435/JAAOS-D-23-01134

Glenoid version and inclination can be accurately predicted for shoulder arthroplasty from preoperative computed tomography scans using Virtual Implant Positioning despite missing inferior angle data using statistical shape modeling

Werner BC, Thakur S, Metcalfe N, Poltaretskyi S

J Shoulder Elbow Surg. 2025;34(10):2480-2486. doi:10.1016/j.jse.2025.01.041

Testosterone replacement therapy is not associated with greater revision rates in reverse total shoulder arthroplasty

Parmar RP, Cronen A, Hui C, Stickels M, Lederman E, Shah A

J Clin Med. 2025;14(4):1341. doi:10.3390/jcm14041341

Smaller glenosphere size and increased baseplate retroversion improve postoperative internal rotation after reverse total shoulder arthroplasty performed with a 135° humeral implant and lateralized glenoid

Adams J, Al-Humadi S, Werner BC, et al

JSES Int. 2025;9(6):2037-2043. doi:10.1016/j.jseint.2025.06.004

Variability in ultimate humeral height of an inlay humeral stem does not impact outcomes following reverse shoulder arthroplasty

Mendoza MA, Werner BC, Denard PJ, ShARC Group

JSES Int. 2025;9(5):1585-1593. doi:10.1016/j.jseint.2025.04.017

Results of anatomic total shoulder arthroplasty with the Arthrex Eclipse™ stemless humeral implant in patients over 70 years of age

Dillon MT, Denard PJ, ShARC Group

J Shoulder Elbow Surg. 2025;34(9):e750-e756. doi:10.1016/j.jse.2024.12.037

Reverse shoulder arthroplasty baseplate stability is affected by bone density and the type and amount of augmentation

Ritter D, Raiss P, Denard PJ, et al

Bioengineering. 2025;12(1):42. doi:10.3390/bioengineering12010042

Correlation of preoperatively planned humeral component size and actual implanted size: a retrospective and prospective evaluation of anatomic and reverse shoulder arthroplasty

Werner BC, Parsons B, Johnson J, Denard PJ

JSES Int. 2025;9(2):411-414. doi:10.1016/j.jseint.2024.09.020

Lateralization has minimal biomechanical impact on tuberosity fixation with the use of a stem-based repair and a 135° humeral implant in reverse shoulder arthroplasty for 4-part proximal humerus fracture

Bercik MJ Jr, Denard P, McGarry MH, et al

JSES Int. 2025;9(2):486-491. doi:10.1016/j.jseint.2024.11.001

Machine learning models can define clinically relevant bone density subgroups based on patient-specific calibrated computed tomography scans in patients undergoing reverse shoulder arthroplasty

Ritter D, Denard PJ, Raiss P, et al

J Shoulder Elbow Surg. 2025;34(3):e141-e151. doi:10.1016/j.jse.2024.07.006

The effect of lateralization on clinical outcomes after anatomic total shoulder arthroplasty

Werner BC, Nauert R, Harmsen S, et al

J Shoulder Elbow Surg. 2025;34(6):1498-1506. doi:10.1016/j.jse.2024.09.044

The impact of 3-dimensional humeral planning and standard transfer instrumentation on reconstruction of native humeral anatomy for anatomic total shoulder arthroplasty

Werner BC, Lenters TR, Thakur S, Knopf D, Metcalfe N, Tokish JM

J Shoulder Elbow Surg. 2025;34(1):147-153. doi:10.1016/j.jse.2024.04.011

Identification of an anatomical safe zone for humeral cerclage passage

Gulbrandsen MT, McDaniel LE, Hui CH, et al

JSES Int. 2025;9(1):6-11. doi:10.1016/j.jseint.2024.08.187

Magnetic resonance imaging vs. two- and three-dimensional computed tomography scans for assessment of glenoid inclination and version

Wittmann T, Rieger T, Krawczyk S, Helfen T, Santos I, Raiss P

JSES Int. 2025;9(2):398-403. doi:10.1016/j.jseint.2024.08.182

2024

Convertible glenoid replacement in the anatomical total shoulder arthroplasty: medium-term results

Habermeyer P, Rapaport J, Raiss P, Magosch P

Arch Orthop Trauma Surg. 2024;144(9):4365-4374. doi:10.1007/s00402-024-05536-7

Association of neighborhood level socioeconomic status and patient reported clinical improvement following total shoulder arthroplasty

Morgan C, Firoved A, Denard PJ, Griffin JW

JSES Int. 2024;9(1):175-180. doi:10.1016/j.jseint.2024.08.205

SECEC Grammont Award 2024: The critical role of posture adjustment for range of motion simulation in reverse total shoulder arthroplasty preoperative planning

Moroder P, Poltaretskyi S, Raiss P, et al

Bone Joint J. 2024;106-B(11):1284-1292. doi:10.1302/0301-620X.106B11.BJJ-2024-0110.R1

Virtual assessment of internal rotation in reverse shoulder arthroplasty based on statistical shape models of scapular size

Galasso LA, Lädermann A, Werner BC, et al

JSES Int. 2024;8(6):1248-1258. doi:10.1016/j.jseint.2024.07.014

Posteroinferior glenosphere positioning is associated with improved range of motion following reverse shoulder arthroplasty with a 135° inlay humeral component and lateralized glenoid

Pak T, Ardebol J, Kilic AI, et al

J Shoulder Elbow Surg. 2024;33(10):2171-2177. doi:10.1016/j.jse.2024.02.019

Quantifying bone loss and lateralization with standardized baseplate vs augmented baseplates

Shah A, Werner B, Gobezie R, et al

JSES Int. 2024;8(5):1055-1062. doi:10.1016/j.jseint.2024.04.014

Limited preoperative forward flexion does not impact outcomes between anatomic or reverse shoulder arthroplasty for primary glenohumeral arthritis

Sears BW, Denard PJ, Lederman E, Gobezie R, Werner BC

Semin Arthroplasty. 2024;34(3):626-631. doi:10.1053/j.sart.2024.03.007

Seasonal timing of surgery does not affect clinical outcomes in total shoulder arthroplasty

Erickson BJ, Denard PJ, Gobezie R, Lederman E, Sears B, Werner BC

Semin Arthroplasty. 2024;34(3):679-684. doi:10.1053/j.sart.2024.03.015

A stemless anatomic shoulder arthroplasty design provides increased cortical medial calcar bone loading in variable bone densities compared to a short stem implant

Ritter D, Denard PJ, Raiss P, Wijdicks CA, Bachmaier S

JSES Int. 2024;8(4):851-858. doi:10.1016/j.jseint.2024.02.008

Glenoid lateralization in reverse shoulder arthroplasty: metal versus bone offset in different implant designs

Wittmann T, Denard PJ, Werner BC, Raiss P

JSES Int. 2024;8(4):845-850. doi:10.1016/j.jseint.2024.02.006

Rates of subacromial notching are low following reverse shoulder arthroplasty with a 135° inlay humeral component and a lateralized glenoid

Pak T, Menendez ME, Gobezie R, Sears BW, Lederman E, ShARC

JSES Int. 2024;8(3):522-527. doi:10.1016/j.jseint.2024.01.009

The subcoracoid distance is correlated with pain and internal rotation after reverse shoulder arthroplasty

Klosterman EL, Tagliero AJ, Lenters TR, et al

JSES Int. 2024;8(3):528-534. doi:10.1016/j.jseint.2024.01.010

Preoperative 3D computed tomography bone density measures provide objective bone quality classifications for stemless anatomic total shoulder arthroplasty

Ritter D, Denard PJ, Raiss P, Wijdicks CA, Bachmaier S

J Shoulder Elbow Surg. 2024;33:1503-1511. doi:10.1016/j.jse.2023.11.005

Robert H. Cofield, MD, Award for Best Oral Presentation 2023: Up to 8 mm of glenoid-sided lateralization does not increase the risk of acromial or scapular spine stress fracture following reverse shoulder arthroplasty with a 135° inlay humeral component

Pak T, Ardebol J, Menendez ME, et al

J Shoulder Elbow Surg. 2024;33(6 suppl):S1-S8. doi:10.1016/j.jse.2023.11.018

Assessment of a novel computed tomography ratio to characterize B2 glenoid morphology with total shoulder arthroplasty

Oak SR, Horinek JL, Barras LA, et al

Semin Arthroplasty. 2024;34(1):P252-P258. doi:10.1053/j.sart.2023.04.016

Influence of backside seating parameters and augmented baseplate components in virtual planning for reverse shoulder arthroplasty

Werner BC, Lin A, Lenters TR, et al

J Shoulder Elbow Surg. 2024;33(6):1352-1359. doi:10.1016/j.jse.2023.10.024

Effect of osteophyte removal on simulated range of motion using 3-dimensional preoperative planning software for reverse total shoulder arthroplasty

Ruzbarsky JJ, Peebles AM, Watkins L, et al

JSES Int. 2024;8(1):104-110. doi:10.1016/j.jseint.2023.08.011

2023

Multiplanar analysis of proximal humerus anatomy of patients with rotator cuff arthropathy and relevance to reverse shoulder press-fit stems

Ardebol J, Tagliero AJ, Werner BC, et al

JSES Int. 2023;7(5):848-854. doi:10.1016/j.jseint.2023.05.016

Reverse shoulder arthroplasty patients younger than 60 years old exhibit lower clinically significant Single Assessment Numeric Evaluation (SANE) scores compared to older patients

Stewart BP, Hawthorne BS, Dorsey CG, Wellington IJ, Cote M, Mazzocca A

Cureus. 2023;15(10):e46492. doi:10.7759/cureus.46492

Stemless anatomic total shoulder arthroplasty is associated with less early postoperative pain

Werner BC, Burrus MT, Denard PJ, et al

JSES Int. 2023;8(1):197-203. doi:10.1016/j.jseint.2023.10.012

Short-term functional outcomes of reverse shoulder arthroplasty following three-dimensional planning is similar whether placed with a standard guide or patient-specific instrumentation

Hwang S, Werner BC, Provencher M, et al

J Shoulder Elbow Surg. 2023;32(8):1654-1661. doi:10.1016/j.jse.2023.02.136

Obesity is associated with improvement in functional outcome but lowers internal rotation after reverse shoulder arthroplasty

Shah A, Galal Y, Werner BC, Gobezie R, Denard PJ, Lederman E

JSES Int. 2023;8(1):147-151. doi:10.1016/j.jseint.2023.08.021

Humeral osteophyte size and clinical outcomes after anatomic total shoulder arthroplasty

Shah A, Galal Y, Lederman E, et al

Semin Arthroplasty. 2023;33(1):141-147. doi:10.1053/j.sart.2022.09.003

Stemless components lead to improved radiographic restoration of humeral head anatomy compared with short-stemmed components in total shoulder arthroplasty

Sears BW, Creighton RA, Denard PJ, et al

J Shoulder Elbow Surg. 2023;32(2):240-246. doi:10.1016/j.jse.2022.07.024

Treatment of massive rotator cuff tears with reverse shoulder arthroplasty

Kobayashi EF, Oak SR, Miller BS, Bedi A

Clin Sports Med. 2023;42(1):157-173. doi:10.1016/j.csm.2022.08.007

2022

Arthroscopic management of stiffness and anterior shoulder pain following reverse shoulder arthroplasty

Ardebol J, Pasqualini I, Hartzler RU, Griffin JW, Lederman E, Denard PJ

Arthrosc Tech. 2022;11(10):e1805-e1811. doi:10.1016/j.eats.2022.06.012

Compressed autograft biceps tendon augmentation of subscapularis repair following shoulder arthroplasty

Denard PJ, Ardebol J, Pasqualini I, Horinek JL, Dines J, Tokish JM

JSES Rev Rep Tech. 2022;2(4):535-538. doi:10.1016/j.xrrt.2022.08.002

Commercial 3-dimensional imaging programs are not created equal: version and inclination measurement positions vary among preoperative planning software

Waltz RA, Peebles AM, Ernat JJ, et al

JSES Int. 2022;6(3):413-420. doi:10.1016/j.jseint.2022.01.006

What is the deviation in 3D preoperative planning software? A systematic review of concordance between plan and actual implant in reverse total shoulder arthroplasty

Lilley BM, Lachance A, Peebles AM, et al

J Shoulder Elbow Surg. 2022;31(5):1073-1082. doi:10.1016/j.jse.2021.12.006

Impact of fatty infiltration of the rotator cuff on reverse total shoulder arthroplasty outcomes: a systematic review

Powell SN, Lilley BM, Peebles AM, et al

JSES Rev Rep Tech. 2022;2(2):125-130. doi:10.1016/j.xrrt.2021.12.001

Considerations for shoulder arthroplasty implant selection in primary glenohumeral arthritis with posterior glenoid deformity

Denard PJ, Romeo AA

J Am Acad Orthop Surg. 2022;30(19):e1240-e1248. doi:10.5435/JAAOS-D-21-01219

Substantial clinical benefit values demonstrate a high degree of variability when stratified by time and geographic region

Wellington IJ, Davey AP, Cote MP, et al

JSES Int. 2022;7(1):153-157. doi:10.1016/j.jseint.2022.10.003

Does lateralizing the glenosphere center of rotation by 4 mm decrease scapular notching in reverse shoulder arthroplasty with a 135° humeral component?

Harmsen SM, Robaina J, Campbell D, Denard PJ, Gobezie R, Lederman ES

JSES Int. 2022;6(3):442-446. doi:10.1016/j.jseint.2021.12.005

Anatomic total shoulder arthroplasty for patients with preserved preoperative motion

Burrus MT, Griffin JW, Denard PJ, Lederman E, Gobezie R, Werner BC

Semin Arthroplasty. 2022;32(2):258-264. doi:10.1053/j.sart.2021.09.009

The addition of preoperative three-dimensional analysis alters implant choice in shoulder arthroplasty

Werner BC, Denard PJ, Tokish JM, et al

Shoulder Elbow. 2022;14(4):378-384. doi:10.1177/1758573221989306

Rotational range of motion of elliptical and spherical heads in shoulder arthroplasty: a dynamic biomechanical evaluation

Muench LN, Otto A, Kia C, et al

Arch Orthop Trauma Surg. 2022;142(1):67-76. doi:10.1007/s00402-020-03587-0

A comparison of central screw versus post for glenoid baseplate fixation in reverse shoulder arthroplasty using a lateralized glenoid design

Bercik MJ, Werner BC, Sears BW, Gobezie R, Lederman E, Denard PJ

J Clin Med. 2022;11(13):3763. doi:10.3390/jcm11133763

Short-term clinical and radiographic outcomes of a hybrid all-polyethylene glenoid based on preoperative glenoid morphology

Creighton RA, Burrus MT, Werner BC, Gobezie R, Lederman E, Denard PJ

J Shoulder Elbow Surg. 2022;31(12):2554-2561. doi:10.1016/j.jse.2022.05.016

The influence of preoperative rotator cuff cross-sectional area and strength on postoperative outcomes in reverse shoulder arthroplasty

Kirloskar KM, Szakiel PM, Gruber MD, Werner BC, Denard PJ

J Shoulder Elbow Surg. 2022;31(11):2274-2280. doi:10.1016/j.jse.2022.04.003

Initial and 1-year radiographic comparison of reverse total shoulder arthroplasty with a short versus standard length stem

Erickson BJ, Denard PJ, Griffin JW, Gobezie R, Lederman E, Werner BC

J Am Acad Orthop Surg. 2022;30(14):e968-e978. doi:10.5435/JAAOS-D-21-01032

A 135° short inlay humeral stem leads to comparable radiographic and clinical outcomes compared with a standard-length stem for reverse shoulder arthroplasty

Erickson BJ, Denard PJ, Griffin JW, et al

JSES Int. 2022;6(5):802-808. doi:10.1016/j.jseint.2022.05.003

No difference in range of motion in reverse total shoulder arthroplasty using standard or constrained liners: a matched cohort study

Goodloe JB, Denard PJ, Lederman E, Gobezie R, Werner BC

JSES Int. 2022;6(6):929-934. doi:10.1016/j.jseint.2022.07.004

Patient reported outcomes and ranges of motion after reverse total shoulder arthroplasty with and without subscapularis repair

Oak SR, Kobayashi E, Gagnier J, et al

JSES Int. 2022;6(6):923-928. doi:10.1016/j.jseint.2022.07.009

Lesser tuberosity osteotomy does not appear to compromise fixation or function compared with peel in short-stem anatomic shoulder arthroplasty

Griffin JW, Werner BC, Lederman E, et al

Orthopedics. 2022;45(3):151-155. doi:10.3928/01477447-20220128-10

Can the reverse total shoulder arthroplasty provide as good of an outcome as an anatomic shoulder arthroplasty

Erickson BJ, Chalmers P, Shishani Y, Romeo AA, Lederman ES, Gobezie R

Semin Arthroplasty. 2022;32(4):850-855. doi:10.1053/j.sart.2022.04.013

The influence of computed tomography preoperative planning on clinical outcomes after anatomic total shoulder arthroplasty: a matched cohort analysis

Burrus MT, Denard PJ, Lederman E, Gobezie R, Werner BC

Semin Arthroplasty. 2022;32(4):856-862. doi:10.1053/j.sart.2022.04.011

A comprehensive evaluation of the association of radiographic measures of lateralization on clinical outcomes following reverse total shoulder arthroplasty

Erickson BJ, Werner BC, Griffin JW, et al

J Shoulder Elbow Surg. 2022;31(5):963-970. doi:10.1016/j.jse.2021.10.010

A radiographic analysis of proximal humeral anatomy in patients with primary glenohumeral arthritis and implications for press-fit stem length

Bents EJ, Werner BC, Griffin JW, Raiss P, Denard PJ

J Clin Med. 2022;11(10):2867. doi:10.3390/jcm11102867

A biomechanical comparison of subscapularis tenotomy repair techniques for stemless shoulder arthroplasty

Werner BC, McClish SJ, Mealey NC, Wijdicks C, Thompson T, Higgins LD

J Shoulder Elbow Surg. 2022;31(4):711-717. doi:10.1016/j.jse.2021.10.017

Is there a difference in outcomes between the first and second surgical procedures in patients who have bilateral shoulder operations

Erickson BJ, Shishani Y, Jones S, Wesorick B, Romeo AA, Gobezie R

J Shoulder Elbow Surg. 2022;31(1):43-47. doi:10.1016/j.jse.2021.05.027

2021

Survival of stemless humeral head replacement in anatomic shoulder arthroplasty: A prospective study

Magosch P, Lichtenberg S, Habermeyer P

J Shoulder Elbow Surg. 2021;30(7):e343-e355. doi:10.1016/j.jse.2020.09.034

Post-preparation peri-implant humeral bone density and fixation strength vary based on design in stemless reverse shoulder arthroplasty: primary implant fixation in stemless RSA

Bachmaier S, Flury M, Lichtenberg S, et al

Semin Arthroplasty JSES. 2021;31(4):677-687. doi:10.1053/j.sart.2021.04.006

A tensionable suture-based cerclage is an alternative to stainless steel cerclage fixation for stabilization of a humeral osteotomy during shoulder arthroplasty

Denard PJ, Nolte PC, Millett PJ, Adams CR, Liebler SAH, Rego G, Higgins LD.

J Am Acad Orthop Surg. 2021;29(12):e609-e617. doi:10.5435/JAAOS-D-20-00047

Reverse total shoulder arthroplasty for patients with preserved active elevation and moderate-to-severe pain: a matched cohort study

Burrus MT, Denard PJ, Lederman E, Gobezie R, Werner BC

JSES Int. 2021;6(1):1-6. doi:10.1016/j.jseint.2021.10.004

Negligible correlation between radiographic measurements and clinical outcomes in patients following primary reverse total shoulder arthroplasty

Berthold DP, Morikawa D, Muench LN, et al

J Clin Med. 2021;10(4):809. doi:10.3390/jcm10040809

The impact of subscapularis integrity on functional outcome in reverse total shoulder arthroplasty utilizing a 135˚ stem

Cirino CM, Cagle PJ, Gobezie RB, Lederman ES, Denard PJ, Parsons BO

Semin Arthroplasty. 2021;31(4):721-729. doi:10.1053/j.sart.2021.04.010

Why patients fail to achieve a Patient Acceptable Symptom State (PASS) after total shoulder arthroplasty?

Cole EW, Moulton SG, Werner BC, Denard PJ

JSES Int. 2021;6(1):49-55. doi:10.1016/j.jseint.2021.09.017

Cause for revision differs between a short and standard length stem at 5 year follow-up

Denard PJ, Werner BC, Gobezie R, Cohen BS, Lederman E

Semin Arthroplasty. 2021;31(4):836-841. doi:10.1053/j.sart.2021.05.014

Does commercially available shoulder arthroplasty preoperative planning software agree with surgeon measurements of version, inclination, and subluxation?

Erickson BJ, Chalmers PN, Denard P, et al

J Shoulder Elbow Surg. 2021;30(2):413-420. doi:10.1016/j.jse.2020.05.027

Inclination correction is associated with improved clinical outcomes in anatomic total shoulder arthroplasty

Griffin JW, Denard P, Romeo A, Gobezie R, Lederman E, Werner B

Semin Arthroplasty. 2021;31(3):557-562. doi:10.1053/j.sart.2021.03.005

Clinical and radiological outcomes in reverse total shoulder arthroplasty by inclination angle with a modular prosthesis

Otto A, Baldino JB, Mehl J, et al

Orthopedics. 2021;44(4):e527-e533. doi:10.3928/01477447-20210618-12

Revision to reverse total shoulder arthroplasty: do short stem and stemless implants reduce the operative burden compared to convertible stems?

Tracy ST, Werner BC, Steinbeck J, et al

Semin Arthroplasty. 2021:31(2):248-254. doi:10.1053/j.sart.2020.11.019

Prosthetic humeral head center of rotation shift from ideal is associated with inferior clinical outcomes after anatomic total shoulder arthroplasty

Werner BC, Creighton RA, Denard PJ, Lederman E, Romeo A, Griffin JW

Semin Arthroplasty. 2021;31(4):668-676. doi:10.1053/j.sart.2021.04.004

Glenoid lateralization influences active internal rotation after reverse shoulder arthroplasty

Werner BC, Lederman E, Gobezie R, Denard PJ

J Shoulder Elbow Surg. 2021;30(11):2498-2505. doi:10.1016/j.jse.2021.02.021

Glenosphere inclination and clinical outcomes after reverse shoulder arthroplasty

Werner BC, Griffin JW, Lederman E, Gobezie R, Denard PJ

Semin Arthroplasty. 2021;31(3):430-437. doi:10.1053/j.sart.2020.12.014

Biomechanical evaluation of 2 techniques of repair after subscapularis peel for stemless shoulder arthroplasty

Werner BC, Griffin JW, Thompson T, Lendhey M, Higgins LD, Denard PJ

J Shoulder Elbow Surg. 2021;30(10):2240-2246. doi:10.1016/j.jse.2021.01.037

Understanding the variables that are associated with failure to achieve an acceptable symptom state after reverse shoulder arthroplasty

Werner BC, Lederman E, Gobezie R, Denard PJ

Semin Arthroplasty. 2021;31(4):730-736. doi:10.1053/j.sart.2021.05.001

Variability in total shoulder arthroplasty planning software compared to a control CT-derived 3D printed scapula

Shah SS, Sahota S, Denard PJ, et al

Shoulder Elbow. 2021;13(3):268-275. doi:10.1177/1758573219888821

Surgeon acceptance of an initial 3D glenoid preoperative plan: rates and risk factors

Hartzler RU, Denard PJ, Griffin JW, Werner BC, Romeo AA

J Shoulder Elbow Surg. 2021;30(4):787-794. doi:10.1016/j.jse.2020.06.032

Prospective midterm results of a new convertible glenoid component in anatomic shoulder arthroplasty: a cohort study

Magosch P, Lichtenberg S, Tauber M, Martetschläger F, Habermeyer P

Arch Orthop Trauma Surg. 2021;141(5):717-724. doi:10.1007/s00402-020-03454-y

2020

Short-term safety, function, and quality of life in patients treated with Univers Revers prosthesis: a multicenter 2-year follow-up case series

Schwyzer HK, Marzel A, Wirth B, et al

J Shoulder Elbow Surg. 2020;29(11):2282-2291. doi:10.1016/j.jse.2020.01.090

Eclipse stemless shoulder prosthesis versus Univers II shoulder prosthesis: a multicenter, prospective randomized controlled trial

Romeo AA, Erickson BJ, Costouros J, et al

J Shoulder Elbow Surg. 2020;29(11):2200-2212. doi:10.1016/j.jse.2020.07.004

Suture cerclage for stabilizing the humeral shaft during shoulder arthroplasty

Eyberg BA, Walker JB, Harmsen SM, Gobezie R, Denard PJ, Lederman ES

JSES Int. 2020;4(3):688-693. doi:10.1016/j.jseint.2020.04.001

A systematic review of tuberosity healing and outcomes following reverse shoulder arthroplasty for fracture according to humeral inclination of the prosthesis

O'Sullivan J, Lädermann A, Parsons BO, et al

J Shoulder Elbow Surg. 2020;29(9):1938-1949. doi:10.1016/j.jse.2020.03.032

Outpatient versus inpatient anatomic total shoulder arthroplasty: outcomes and complications

Erickson BJ, Shishani Y, Jones S, et al

JSES Int. 2020;4(4):919-922. doi:10.1016/j.jseint.2020.07.003

Outpatient vs. inpatient reverse total shoulder arthroplasty: outcomes and complications

Erickson BJ, Shishani Y, Jones S, et al

J Shoulder Elbow Surg. 2020;29(6):1115-1120. doi:10.1016/j.jse.2019.10.023

Five-year radiographic evaluation of stress shielding with a press-fit standard length humeral stem

Cole EW, Moulton SG, Gobezie R, et al

JSES Int. 2020;4(1):109-113. doi:10.1016/j.jses.2019.11.002

Osseous integration of the central peg of an all-polyethylene glenoid with 3 different surgical techniques

Denard PJ, Gobezie R, Griffin JW, Romeo AA, Lederman E

Orthopedics. 2020;43(5):278-283. doi:10.3928/01477447-20200721-04

Short-term evaluation of humeral stress shielding following reverse shoulder arthroplasty using press-fit fixation compared with cemented fixation

Denard PJ, Haidamous G, Gobezie R, Romeo AA, Lederman E

J Shoulder Elbow Surg. 2020;29(5):906-912. doi:10.1016/j.jse.2019.09.042

Lower rates of radiolucency with a hybrid all-polyethylene pegged glenoid component compared to a completely cemented pegged glenoid component

Denard PJ, Werner BC, Gobezie R, Tokish JM, Kissenberth MJ, Lederman E

Semin Arthroplasty. 2020;30(1):56-62. doi:10.1053/j.sart.2020.05.002

Current state of short-stem implants in total shoulder arthroplasty: a systematic review of the literature

Erickson BJ, Chalmers PN, Denard PJ, Gobezie R, Romeo AA, Lederman ES

JSES Int. 2020;4(1):114-119. doi:10.1016/j.jses.2019.10.112

Subscapularis repair during reverse total shoulder arthroplasty using a stem-based double-row repair: sonographic and clinical outcomes

Erickson BJ, Shishani Y, Bishop ME, et al

Orthop J Sports Med. 2020;8(3):2325967120906806. doi:10.1177/2325967120906806

The risk of postoperative scapular spine fracture following reverse shoulder arthroplasty is increased with an onlay humeral stem

Haidamous G, Lädermann A, Frankle MA, Gorman RA, Denard PJ

J Shoulder Elbow Surg. 2020;29(12):2556-2563. doi:10.1016/j.jse.2020.03.036

Radiographic parameters associated with excellent versus poor range of motion outcomes following reverse shoulder arthroplasty

Denard PJ, Lädermann A, Haidamous G, et al

J Shoulder Elbow Surg. 2020;29(4):e169. doi:10.1016/j.jse.2020.01.056

Tuberosity healing improves functional outcome following primary reverse shoulder arthroplasty for proximal humeral fractures with a 135° prosthesis

Schmalzl J, Jessen M, Holschen M, et al

Eur J Orthop Surg Traumatol. 2020;30(5):909-916. doi:10.1007/s00590-020-02649-8

Kinematics and EMG activity in reverse total shoulder arthroplasty

Smith RA, Woolley K, Mazzocca A, et al

J Orthop. 2020;22:165-169. doi:10.1016/j.jor.2020.04.017

Tuberosity repair in reverse total shoulder arthroplasty for fracture using a stem-based double-row repair: a cadaveric biomechanical study

Erickson BJ, Shishani Y, Bishop ME, Romeo AA, Lederman E, Gobezie R

J Am Acad Orthop Surg. 2020;28(23):e1059-e1065. doi:10.5435/JAAOS-D-19-00667

2019

Biomechanical comparison of subscapularis peel and lesser tuberosity osteotomy for double-row subscapularis repair technique in a cadaveric arthroplasty model

Virk MS, Aiyash SS, Frank RM, et al

J Orthop Surg Res. 2019;14:391. doi:10.1186/s13018-019-1372-x

Can a functional difference be detected in reverse arthroplasty with 135° versus 155° prosthesis for the treatment of rotator cuff arthropathy: a prospective randomized study

Gobezie R, Shishani Y, Lederman E, Denard PJ

J Shoulder Elbow Surg. 2019;28(5):813-818. doi:10.1016/j.jse.2018.11.064

Minimum 5-year outcomes of pegged versus keeled all-polyethylene glenoids

Moulton SG, Cole EW, Gobezie R, Romeo AA, Lederman E, Denard PJ

JSES Open Access. 2019;3(4):292-295. doi:10.1016/j.jses.2019.09.006

2018

Version and inclination obtained with 3-dimensional planning in total shoulder arthroplasty: do different programs produce the same results?

Denard PJ, Provencher MT, Lädermann A, Romeo AA, Parsons BO, Dines JS

JSES Open Access. 2018;2(4):200-204. doi:10.1016/j.jses.2018.06.003

A tensionable method for subscapularis repair after shoulder arthroplasty

Denard PJ, Noyes MP, Lädermann A

JSES Open Access. 2018;2(4):205-210. doi:10.1016/j.jses.2018.08.003

Proximal stress shielding is decreased with a short stem compared with a traditional-length stem in total shoulder arthroplasty

Denard PJ, Noyes MP, Walker JB, et al

J Shoulder Elbow Surg. 2018;27(1):53-58. doi:10.1016/j.jse.2017.06.042

Stress shielding of the humerus in press-fit anatomic shoulder arthroplasty: review and recommendations for evaluation

Denard PJ, Raiss P, Gobezie R, Edwards TB, Lederman E

J Shoulder Elbow Surg. 2018;27(6):1139-1147. doi:10.1016/j.jse.2017.12.020

Radiographic changes differ between two different short press-fit humeral stem designs in total shoulder arthroplasty

Denard PJ, Noyes MP, Walker JB, et al

J Shoulder Elbow Surg. 2018;27(2):217-223. doi:10.1016/j.jse.2017.08.010

Short-term clinical outcome of an anatomic short-stem humeral component in total shoulder arthroplasty

Romeo AA, Thorsness RJ, Sumner SA, Gobezie R, Lederman ES, Denard PJ

J Shoulder Elbow Surg. 2018;27(1):70-74. doi:10.1016/j.jse.2017.05.026

2017

No correlation between radiolucency and biomechanical stability of keeled and pegged glenoid components

Voss A, Beitzel K, Obopilwe E, Buchmann S, et al

BMC Musculoskelet Disord. 2017;18:213. doi:10.1186/s12891-017-1550-0

Is the stemless humeral head replacement clinically and radiographically a secure equivalent to standard stem humeral head replacement in the long-term follow-up? A prospective randomized trial

Uschok S, Magosch P, Moe M, Lichtenberg S, Habermeyer P

J Shoulder Elbow Surg. 2017;26(2):225-232. doi:10.1016/j.jse.2016.09.001

Nine-year outcome after anatomic stemless shoulder prosthesis: clinical and radiologic results

Hawi N, Magosch P, Tauber M, Lichtenberg S, Habermeyer P

J Shoulder Elbow Surg. 2017;26(9):1609-1615. doi:10.1016/j.jse.2017.02.017

Finite element analysis of glenoid-sided lateralization in reverse shoulder arthroplasty

Denard PJ, Lederman E, Parsons BO, Romeo AA

J Orthop Res. 2017;35(7):1548-1555. doi:10.1002/jor.23394

Healing and functional outcome of a subscapularis peel repair with a stem-based repair after total shoulder arthroplasty

Gobezie R, Denard PJ, Shishani Y, Romeo AA, Lederman E

J Shoulder Elbow Surg. 2017;26(9):1603-1608. doi:10.1016/j.jse.2017.02.013

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