

Influence of Humeral Prosthesis Height on Biomechanics

Journal of Bone and Joint Surgery - Series A
86, 575-580

DOI: [10.2106/00004623-200403000-00017](https://doi.org/10.2106/00004623-200403000-00017)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Arthroplasty of the shoulder. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2006, 88-B, 562-575.	3.4	185
2	Moment arms of forearm rotators. <i>Clinical Biomechanics</i> , 2006, 21, 683-691.	1.2	34
3	Variation in external rotation moment arms among subregions of supraspinatus, infraspinatus, and teres minor muscles. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1737-1744.	2.3	25
4	Comparison of model-predicted and measured moment arms for the rotator cuff muscles. <i>Clinical Biomechanics</i> , 2007, 22, 639-644.	1.2	37
5	Effects of rotator cuff tears on muscle moment arms: A computational study. <i>Journal of Biomechanics</i> , 2007, 40, 3373-3380.	2.1	21
6	Efficacy of anatomical prostheses in primary glenohumeral osteoarthritis. <i>La Chirurgia Degli Organi Di Movimento</i> , 2008, 91, 109-115.	0.2	20
7	Neer Award 2006: Biomechanical assessment of inferior tuberosity placement during hemiarthroplasty for four-part proximal humeral fractures. <i>Journal of Shoulder and Elbow Surgery</i> , 2008, 17, 189-196.	2.6	35
8	Latissimus dorsi transfer to restore external rotation with reverse shoulder arthroplasty: A biomechanical study. <i>Journal of Shoulder and Elbow Surgery</i> , 2008, 17, 650-658.	2.6	92
9	Radiographic analysis of shoulder anatomical arthroplasty. <i>European Journal of Radiology</i> , 2008, 68, 159-169.	2.6	41
10	Influence of component positioning on impingement in conventional total shoulder arthroplasty. <i>Clinical Biomechanics</i> , 2008, 23, 175-183.	1.2	68
11	Replacing shoulder joints. , 2008, , 579-610.		0
12	Effect of a Variable Prosthetic Neck-Shaft Angle and the Surgical Technique on Replication of Normal Humeral Anatomy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 1932-1941.	3.0	72
13	In vitro quantitative assessment of total and bipolar shoulder arthroplasties: A biomechanical study using human cadaver shoulders. <i>Clinical Biomechanics</i> , 2009, 24, 626-631.	1.2	14
14	Changes in shoulder muscle function with humeral position: A graphical description. <i>Journal of Shoulder and Elbow Surgery</i> , 2009, 18, 114-121.	2.6	21
15	Automated muscle wrapping using finite element contact detection. <i>Journal of Biomechanics</i> , 2010, 43, 1931-1940.	2.1	20
16	Glenohumeral Contact Kinematics in Patients After Total Shoulder Arthroplasty. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 916-926.	3.0	43
17	Alternative humeral tubercle fixation in shoulder hemiarthroplasty for fractures of the proximal humerus. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 282-289.	2.6	13
18	Results of a new stemless shoulder prosthesis: Radiologic proof of maintained fixation and stability after a minimum of three years' follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 847-852.	2.6	166

#	ARTICLE	IF	CITATIONS
19	Biomechanical consequences of humeral component malpositioning after anatomical total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2010, 19, 1184-1190.	2.6	46
20	Differences in reconstruction of the anatomy with modern adjustable compared to second-generation shoulder prosthesis. <i>International Orthopaedics</i> , 2011, 35, 705-711.	1.9	14
21	Prospective study of double-eccentric hemi shoulder arthroplasty in different aetiologies: midterm results. <i>International Orthopaedics</i> , 2011, 35, 1015-1023.	1.9	10
22	Position of shoulder arthroplasty and clinical outcome in proximal humerus fractures. <i>Musculoskeletal Surgery</i> , 2011, 95, 55-58.	1.5	3
23	A Systematic Review of the Reverse Shoulder Replacement in Rotator Cuff Arthropathy, Rotator Cuff Tears, and Rheumatoid Arthritis. <i>Sports Medicine and Arthroscopy Review</i> , 2011, 19, 366-379.	2.3	44
24	Biomechanical Comparison of Anatomic Humeral Head Resurfacing and Hemiarthroplasty in Functional Glenohumeral Positions. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 68-76.	3.0	63
25	An integrated model of active glenohumeral stability. <i>Journal of Biomechanics</i> , 2012, 45, 2248-2255.	2.1	49
26	Development of Proprioception After Shoulder Arthroplasty. , 0, , .		0
27	Variability of medial and posterior offset in patients with fourth-generation stemmed shoulder arthroplasty. <i>International Orthopaedics</i> , 2012, 36, 587-593.	1.9	5
29	Trabecular metalâ„¢ shoulder prosthesis in the treatment of complex proximal humeral fractures. <i>International Orthopaedics</i> , 2013, 37, 2259-2264.	1.9	14
30	Resurfacing humeral prosthesis: do we really reconstruct the anatomy?. <i>Journal of Shoulder and Elbow Surgery</i> , 2013, 22, 612-619.	2.6	52
33	Artroplastia do ombro na osteoartrose: correlaÃ§Ã£o entre funÃ§Ã£o e parÃ¢metros radiogrÃ¡ficos. <i>Acta Ortopedica Brasileira</i> , 2013, 21, 98-102.	0.5	6
34	The history of shoulder arthroplasty*Note: This chapter is an updated version of Chapter 24, from the first edition of <i>Joint replacement technology</i> , edited by P. A. Revell and published by Woodhead Publishing, 2008.* , 2014, , 571-601.		2
36	Determination of humeral head size in anatomic shoulder replacement for glenohumeral osteoarthritis. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 955-963.	2.6	78
37	Radiographic assessment of prosthetic humeral head size after anatomic shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 1740-1746.	2.6	78
38	Complex Scapular Winging following Total Shoulder Arthroplasty in a Patient with Ehlers-Danlos Syndrome. <i>Case Reports in Orthopedics</i> , 2015, 2015, 1-6.	0.3	0
40	Optimizing intramedullary entry location on the proximal humerus based on variations of neck-shaft angle. <i>Journal of Shoulder and Elbow Surgery</i> , 2015, 24, 1386-1390.	2.6	11
41	Does an increase in modularity improve the outcomes of total shoulder replacement? Comparison across design generations. <i>International Orthopaedics</i> , 2015, 39, 2053-2060.	1.9	10

#	ARTICLE	IF	CITATIONS
42	Perioperative Rotator Cuff Injury and Disease With Anatomic Total Shoulder Arthroplasty. <i>Techniques in Orthopaedics</i> , 2016, 31, 108-113.	0.2	0
43	Compared to X-ray, three-dimensional computed tomography measurement is a reproducible radiographic method for normal proximal humerus. <i>Journal of Orthopaedic Surgery and Research</i> , 2016, 11, 82.	2.3	14
44	An anthropometric analysis to derive formulae for calculating the dimensions of anatomically shaped humeral heads. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 1532-1541.	2.6	30
45	Association of lateral humeral offset with functional outcome and geometric restoration in stemless total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, e285-e294.	2.6	26
46	The association of incomplete glenoid component seating and periprosthetic glenoid radiolucencies after total shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2016, 25, 442-447.	2.6	8
47	Geometrical analysis of stemless shoulder arthroplasty: a radiological study of seventy TESS total shoulder prostheses. <i>International Orthopaedics</i> , 2016, 40, 751-758.	1.9	35
48	Humeral head sizing using extra-articular landmarks on conventional radiographs. <i>Surgical and Radiologic Anatomy</i> , 2017, 39, 999-1004.	1.2	4
49	Stemless Prosthesis for Total Shoulder Arthroplasty. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2017, 25, e291-e300.	2.5	23
50	Radiolucency in stemless shoulder arthroplasty is associated with an imaging phenomenon. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2040-2050.	2.3	14
51	Humeral head osteotomy in shoulder arthroplasty: a comparison between anterosuperior and inferoanterior resection techniques. <i>Journal of Shoulder and Elbow Surgery</i> , 2017, 26, 343-351.	2.6	10
52	Finite element models of the human shoulder complex: a review of their clinical implications and modelling techniques. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02777.	2.1	40
54	Anatomic humeral head replacement with a press-fit prosthesis: An in vivo radiographic study. <i>Orthopedic Reviews</i> , 2017, 9, 7168.	1.3	2
55	An assessment of proximal humerus density with reference to stemless implants. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 641-649.	2.6	17
56	Does prosthetic humeral articular surface positioning associate with outcome after total shoulder arthroplasty?. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 863-870.	2.6	25
57	An analysis of proximal humerus morphology with special interest in stemless shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 650-658.	2.6	9
58	The lever arm ratio of the rotator cuff to deltoid muscle explains and predicts pseudoparalysis of the shoulder. <i>Bone and Joint Journal</i> , 2018, 100-B, 1600-1608.	4.4	10
59	Hemi, Conventional, and Reverse Total Shoulder Arthroplasty for the Treatment of Proximal Humerus Fractures. , 2018, , 33-52.		0
61	Accuracy of Humeral Articular Surface Restoration in a Novel Anatomic Shoulder Arthroplasty Technique and Design: A Cadaveric Study. <i>Journal of Shoulder and Elbow Arthroplasty</i> , 2018, 2, 247154921775079.	0.8	7

#	ARTICLE	IF	CITATIONS
62	Clinical and radiologic outcomes following total shoulder arthroplasty using Arthrex Eclipse stemless humeral component with minimum 2 years' follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 2191-2197.	2.6	33
63	Accuracy of Humeral Implant Positioning Using a Canal-Sparing Total Shoulder Arthroplasty System. <i>Journal of Shoulder and Elbow Arthroplasty</i> , 2019, 3, 247154921984483.	0.8	7
64	Modeling the effects of musculoskeletal geometry on scapulohumeral muscle moment arms and lines of action. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1311-1322.	1.6	6
65	Radiographic restoration of native anatomy: a comparison between stemmed and stemless shoulder arthroplasty. <i>Journal of Shoulder and Elbow Surgery</i> , 2019, 28, 1595-1600.	2.6	22
66	Overstuffing in resurfacing hemiarthroplasty is a potential risk for failure. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 474.	2.3	21
67	Subscapularis sparing total shoulder arthroplasty through a superolateral approach: a radiographic study. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 814-820.	2.6	8
68	Stemless Humeral Implants in Total Shoulder Arthroplasty. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2020, 28, e277-e287.	2.5	31
69	Humeral version and neck-shaft angle correlated with demographic parameters in a study of 1104 cadaveric humeri. <i>Journal of Shoulder and Elbow Surgery</i> , 2020, 29, 1236-1241.	2.6	9
70	Short stem humeral components in reverse shoulder arthroplasty: stem alignment influences the neck-shaft angle. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 183-188.	2.4	17
71	Radiographic humeral head restoration after total shoulder arthroplasty: does the stem make a difference?. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 51-56.	2.6	16
72	Does computerized CT-based 3D planning of the humeral head cut help to restore the anatomy of the proximal humerus after stemless total shoulder arthroplasty?. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, e309-e316.	2.6	16
73	Stemless Total Shoulder: A Review of Biomechanical Fixation and Recent Results. <i>Journal of Shoulder and Elbow Arthroplasty</i> , 2021, 5, 247154922110084.	0.8	11
74	An update on reverse total shoulder arthroplasty: current indications, new designs, same old problems. <i>EFORT Open Reviews</i> , 2021, 6, 189-201.	4.1	43
75	Prosthetic humeral head center of rotation shift from ideal is associated with inferior clinical outcomes after anatomic total shoulder arthroplasty. <i>Seminars in Arthroplasty</i> , 2021, , .	0.7	7
76	Comparison of Postoperative Anatomy Using Anatomic Total Shoulder Arthroplasty Versus Soft-Tissue Balancing Total Shoulder Arthroplasty. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2021, 29, 848-854.	2.5	1
77	Anatomic total shoulder arthroplasty using a stem-free ellipsoid humeral implant in patients of all ages. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, e572-e582.	2.6	13
78	The association between critical shoulder angle and revision following anatomic total shoulder arthroplasty: a matched case-control study. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 1796-1802.	2.6	4
79	Determining the ideal osteotomy for stemless total shoulder replacement: a cadaveric study. <i>Journal of Shoulder and Elbow Surgery</i> , 2022, 31, 413-419.	2.6	0

#	ARTICLE	IF	CITATIONS
80	Bone Graft Substitute Provides Metaphyseal Fixation for a Stemless Humeral Implant. Orthopedics, 2015, 38, e597-603.	1.1	8
81	Replication of the rotational center of the humeral head with second-generation stemmed prostheses. Acta Orthopaedica Et Traumatologica Turcica, 2011, 45, 71-78.	0.8	3
82	Restoration of the joint geometry and outcome after stemless TESS shoulder arthroplasty. World Journal of Orthopedics, 2017, 8, 790-797.	1.8	19
83	Ergebnisse im Literaturvergleich. , 2010, , 269-295.		0
84	Shoulder Prosthesis Mechanics. Clinics in Shoulder and Elbow, 2010, 13, 153-160.	2.0	1
85	ANALYSIS OF LONG-TERM RESULTS OF SHOULDER ARTHROPLASTY. Travmatologiya I Ortopediya Rossii, 2012, , 71-78.	0.5	9
86	Primäre Prothetik: Wann und welche?. , 2014, , 133-155.		0
87	Stemless Humeral Head Replacement. , 2016, , 57-66.		1
88	Frakturprothetik. , 2017, , 583-629.		2
89	Anatomic Shoulder Arthroplasty. Orthopaedic Study Guide Series, 2017, , 273-292.	0.3	0
90	Therapie der Rotatorenmanschettenruptur – arthroskopische und offen chirurgische Techniken. , 2017, , 335-413.		0
91	Schulter und Schultergürtel. , 2017, , 1-90.		0
92	Reverse Total Shoulder Arthroplasty in Proximal Humeral Fractures. N N Priorov Journal of Traumatology and Orthopedics, 2017, , 46-51.	0.4	0
93	Reverse total shoulder arthroplasty in proximal humeral fractures. N N Priorov Journal of Traumatology and Orthopedics, 2017, 24, 46-51.	0.4	0
94	Fractures of the Shoulder and Elbow. , 2018, , 161-194.		0
95	Biomechanics of anatomic and reverse shoulder arthroplasty. EFORT Open Reviews, 2021, 6, 918-931.	4.1	29
96	Evolution of shoulder arthroplasty. N N Priorov Journal of Traumatology and Orthopedics, 2020, 27, 84-90.	0.4	4
99	Patient-specific instrumentation reduces deviations between planned and postosteotomy humeral retroversion and height in shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2022, 31, 1929-1937.	2.6	1

#	ARTICLE	IF	CITATIONS
100	Extra-short humeral heads reduce glenohumeral joint overstuffing compared with short heads in anatomic total shoulder arthroplasty. JSES International, 2022, 6, 209-215.	1.6	6
101	Restoration of the joint geometry after stemless shoulder arthroplasty. Shoulder and Elbow, 0, , 175857322210889.	1.5	1
102	The Evolution of Reverse Total Shoulder Arthroplastyâ€”From the First Steps to Novel Implant Designs and Surgical Techniques. Journal of Clinical Medicine, 2022, 11, 1512.	2.4	12
104	Restoration of the native humeral anatomy during stemless anatomic total shoulder arthroplasty: a radiographic comparison of intramedullary versus freehand resection. Journal of Shoulder and Elbow Surgery, 2022, 31, 2225-2232.	2.6	1
105	Evolution of shoulder arthroplasty. RUDN Journal of Medicine, 2022, 26, 117-128.	0.2	2
106	Center of Rotation Mismatch in Total Shoulder Arthroplasty Relative to Surgeon Experience. Seminars in Arthroplasty, 2022, , .	0.7	0
107	Stemless components lead to improved radiographic restoration of humeral head anatomy compared with short-stemmed components in total shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2023, 32, 240-246.	2.6	4
108	Stemless and stemmed total shoulder arthroplasty: a comparison of short-term clinical and radiographic outcomes. Seminars in Arthroplasty, 2023, 33, 67-78.	0.7	3
109	Stemless total shoulder arthroplasty using a novel multiplanar osteotomy and elliptical humeral head results in both improved early range of motion and radiographic center of rotation compared with standard total shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2023, 32, 318-325.	2.6	4
110	Stemless Anatomic Total Shoulder Arthroplasty: Surgical Technique and Review of the Literature. JSES Reviews, Reports, and Techniques, 2022, , .	0.2	0
111	Midterm results of stemless impaction shoulder arthroplasty for primary osteoarthritis: a prospective, multicenter study. JSES International, 2023, 7, 1-9.	1.6	4
112	Influence of neck shaft angle of humerus in prosthesis design. Journal of Clinical Orthopaedics and Trauma, 2022, 35, 102045.	1.5	1
113	Revision of Total Shoulder Arthroplasty to Hemiarthroplasty: Results at Mean Five-Year Follow Up. Journal of Shoulder and Elbow Surgery, 2022, , .	2.6	1
114	Can radiographic parameters predict favourable outcomes in Proximal Humeral Hemiarthroplasty for fractures? â€” A Case series. , 2022, , 100118.		0
115	Patients who have intraoperative deviations in their preoperative plan have inferior clinical and radiographic outcomes after anatomic total shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2023, 32, e451-e463.	2.6	2
116	Radiographic comparison of eccentric stemmed vs. concentric stemless prosthetic humeral head positioning after anatomic total shoulder arthroplasty. Journal of Shoulder and Elbow Surgery, 2024, 33, 90-98.	2.6	0
117	Stemless Humeral Implants in Anatomic Total Shoulder Arthroplasty: The Future is Now. , 0, , .		1
118	Secondary Rotator Cuff Insufficiency After Anatomic Total Shoulder Arthroplasty. JBJS Reviews, 2023, 11, .	2.0	0