

Supplementary Material 1

12.9.20 PubMed (564) ((primary rsa OR primary reverse shoulder arthroplast* OR reverse shoulder replacement*) AND (((((((((prosthesis OR implant* OR prosthetic) AND (design)) OR (axial rotation)) OR (range of motion)) OR (cuff tear arthropathy)) OR (irreparable rotator cuff tear)) OR (primary osteoarthritis)) OR (osteoarthritis rotator cuff deficiency)) OR (humerus OR glenoid OR glenohumeral OR inverse))) AND (((((((((((("Randomized Controlled Trial" [Publication Type]) OR ("Controlled Clinical Trial" [Publication Type]) OR "Clinical Trial" [Publication Type])) OR "Evaluation Studies as Topic"[Mesh]) OR "Case-Control Studies"[Mesh]) OR "Cohort Studies"[Mesh]) OR "Longitudinal Studies"[Mesh]) OR "Prospective Studies"[Mesh]) OR "Retrospective Studies"[Mesh]) OR "Follow-Up Studies"[Mesh]) OR "Comparative Study" [Publication Type]) OR ("Systematic Review" [Publication Type] OR "Systematic Reviews as Topic"[Mesh])) OR ("Meta-Analysis" [Publication Type] OR "Meta-Analysis as Topic"[Mesh])) Filters: From 2010/1/1 to 2019/12/31, English, Adult: 19+ years

12.9.20 Embase <1974 to 2020 December 07> (135)

#	Query	Results from 9 Dec 2020
1	primary rsa.mp.	88
2	primary.mp.	2,302,202
3	exp reverse shoulder arthroplasty/	2,006
4	2 and 3	516
5	primary reverse shoulder arthroplast*.mp.	48
6	reverse shoulder replacement*.mp.	73
7	1 or 4 or 5 or 6	620
8	(prosthesis or implant* or prosthetic).mp. [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	856,903
9	design.mp.	1,679,288
10	axial rotation.mp.	3,587
11	range of motion.mp.	65,365
12	cuff tear arthropathy.mp.	604
13	irreparable rotator cuff tear.mp.	189
14	primary osteoarthritis.mp.	1,452
15	osteoarthritis rotator cuff deficiency.mp.	0
16	(humerus or glenoid or glenohumeral or inverse).mp. [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	180,307
17	7 and 8	338
18	9 or 10 or 11 or 12 or 13 or 14 or 15 or 16	1,899,724
19	17 and 18	299
20	exp clinical trial/ or controlled clinical trial/ or exp randomized controlled trial/	1,556,370
21	exp evaluation study/	72,885
22	exp case control study/	183,418
23	exp cohort analysis/	645,655
24	exp longitudinal study/	149,210
25	exp prospective study/	648,483
26	exp retrospective study/	1,002,769
27	exp follow up/	1,621,672
28	exp comparative study/	1,449,054
29	exp "systematic review"/	274,466
30	exp meta analysis/	204,122

31 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 5,877,011
 32 19 and 31 226
 33 limit 32 to (english language and yr = "2010 - 2019" and (adult < 18 to 64 years > or aged < 65+ years >)) 135

primary rsa.mp.

primary.mp.

exp reverse shoulder arthroplasty/

2 and 3

primary reverse shoulder arthroplast*.mp.

reverse shoulder replacement*.mp.

1 or 4 or 5 or 6

(prosthesis or implant* or prosthetic).mp. [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]

design.mp.

axial rotation.mp.

range of motion.mp.

cuff tear arthropathy.mp.

irreparable rotator cuff tear.mp.

primary osteoarthritis.mp.

osteoarthritis rotator cuff deficiency.mp.

(humerus or glenoid or glenohumeral or inverse).mp. [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]

7 and 8

9 or 10 or 11 or 12 or 13 or 14 or 15 or 16

17 and 18

exp clinical trial/ or controlled clinical trial/ or exp randomized controlled trial/

exp evaluation study/

exp case control study/

exp cohort analysis/

exp longitudinal study/

exp prospective study/

exp retrospective study/

exp follow up/

exp comparative study/

exp "systematic review"/

exp meta analysis/

20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30

19 and 31

limit 32 to (english language and yr = "2010 - 2019" and (adult < 18 to 64 years > or aged < 65+ years >))

<http://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=5sO1OkYAnHqi4ZbNBkVbricY5L-t2ObK5rxBTj2KDmmnh0t44bYIjpb22N672Nf7qg>

12.10.20 Scopus Search Strategy (93) ((TITLE-ABS-KEY (primary AND rsa OR primary AND reverse AND shoulder AND arthroplast* OR reverse AND shoulder AND replacement*) AND TITLE-ABS-KEY (prosthesis OR implant* OR prosthetic*)) AND ((ALL (axial AND rotation OR range AND of AND motion OR cuff AND tear AND arthropathy OR irreparable AND rotator AND cuff AND tear OR primary AND osteoarthritis) OR ALL (osteoarthritis AND rotator AND cuff AND deficiency OR humerus OR glenoid OR glenohumeral OR inverse))) AND ((ALL (randomize* AND control* AND trial* OR control*

AND clinical AND trial* OR evaluation AND stud* OR case AND control AND stud OR cohort AND stud* OR longitudinal AND stud* OR prospective AND stud* OR retrospective AND stud*) OR ALL (follow-up AND stud* OR comparative AND stud* OR systematic AND review* OR meta-analysis)) AND (LIMIT-TO (LANGUAGE , "English")) AND (EXCLUDE (PUBYEAR , 2020) OR EXCLUDE (PUBYEAR , 2009) OR EXCLUDE (PUBYEAR , 2008) OR EXCLUDE (PUBYEAR , 2005) OR EXCLUDE (PUBYEAR , 2003))

12/9/20 EBM Reviews - Cochrane Database of Systematic Reviews <2005 to December 03, 2020 >

#	Query	Results from 9 Dec 2020
1	primary rsa.mp. [mp = title, short title, abstract, full text, keywords, caption text]	0
2	primary reverse shoulder arthroplast*.mp. [mp = title, short title, abstract, full text, keywords, caption text]	0
3	reverse shoulder replacement*.mp. [mp = title, short title, abstract, full text, keywords, caption text]	2
4	(prosthesis or implant* or prosthetic).mp. [mp = title, short title, abstract, full text, keywords, caption text]	1,004
5	3 and 4	2
6	design.mp. [mp = title, short title, abstract, full text, keywords, caption text]	8,554
7	axial rotation.mp. [mp = title, short title, abstract, full text, keywords, caption text]	1
8	range of motion.mp. [mp = title, short title, abstract, full text, keywords, caption text]	334
9	cuff tear arthropathy.mp. [mp = title, short title, abstract, full text, keywords, caption text]	1
10	irreparable rotator cuff tear.mp. [mp = title, short title, abstract, full text, keywords, caption text]	0
11	primary osteoarthritis.mp. [mp = title, short title, abstract, full text, keywords, caption text]	12
12	osteoarthritis rotator cuff deficiency.mp. [mp = title, short title, abstract, full text, keywords, caption text]	0
13	(humerus or glenoid or glenohumeral or inverse).mp. [mp = title, short title, abstract, full text, keywords, caption text]	2,873
14	6 or 7 or 8 or 9 or 10 or 11 or 12 or 13	8,789
15	5 and 14	2
16	limit 15 to last 10 years	2

primary rsa.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 primary reverse shoulder arthroplast*.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 reverse shoulder replacement*.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 (prosthesis or implant* or prosthetic).mp. [mp = title, short title, abstract, full text, keywords, caption text]
 3 and 4
 design.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 axial rotation.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 range of motion.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 cuff tear arthropathy.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 irreparable rotator cuff tear.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 primary osteoarthritis.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 osteoarthritis rotator cuff deficiency.mp. [mp = title, short title, abstract, full text, keywords, caption text]
 (humerus or glenoid or glenohumeral or inverse).mp. [mp = title, short title, abstract, full text, keywords, caption text]
 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13
 5 and 14
 limit 15 to last 10 years

<http://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=vLVvpjBvPQ8IA53L19jY2ZV9QT-gTCCboBLEXjPymXFdNYC3VfolRMStdOCbHCMXf>

12.10.20 Web of Science Search Strategy (248)

ALL FIELDS: (primary rsa OR primary reverse shoulder arthroplast* OR reverse shoulder replacement*) AND ALL FIELDS: (prosthesis OR implant* OR prosthetic*) AND ALL FIELDS: (axial rotation OR range of motion OR cuff tear arthropathy OR irreparable rotator cuff tear OR primary osteoarthritis OR osteoarthritis rotator cuff deficiency OR humerus OR glenoid OR glenohumeral OR inverse) AND (randomize* control* trial* OR control* clinical trial* OR evaluation stud* OR case control stud OR cohort stud* OR longitudinal stud* OR prospective stud* OR retrospective stud* OR follow-up stud* OR comparative stud* OR systematic review* OR meta-analysis) Refined by: [excluding] PUBLICATION YEARS: (2020 OR 2006 OR 2009 OR 2005 OR 2008 OR 2007 OR 1992) AND LANGUAGES: (ENGLISH)

12.9.20 ClinicalTrials.gov Search Strategy: 24 Studies found for: prosthesis OR implant OR prosthetic | reverse shoulder arthroplasty | Adult, Older Adult

3.26.20 Author supplied (5)

Database	Results	Duplicates	Remaining
PubMed	564	4	560
Embase	135	78	57
Scopus	93	74	19
Web of Science	248	160	88
Cochrane Database of Systematic Reviews	2	0	2
ClinicalTrials.gov	24	0	24
Author Supplied	5	0	5
Total	1071	316	755