APPENDIX

Annendix I Search Strategy
The Cochrane Library
Search
shoulder AND (joint instability OR instabil*) AND (rct OR random*)
Limits
Publication date from 1994 to January 16, 2017
English, Dutch
PubMed
Search
(shoulder[MeSH Terms] OR shoulder*[tiab] OR shoulder joint[MeSH
Terms]) AND (random* or RCT) AND (joint instability[MeSH Terms] OR
instabil*)
Limits
Publication date from 1994 to January 16, 2017
English, Dutch
EMBASE
Search
(shoulder surgery OR shoulder) AND (joint instability) AND (randomized OR randomised OR random OR RCT)
Limits
Publication date from 1994 to January 16, 2017
Trip Database
Search
(shoulder OR shoulder joint) AND (random* or RCT) AND (joint instability OR instabil*)
Limits
Publication date from 1994 to January 16, 2017

Appen	dix II. Modified CLEAR-NPT
1.	Was the generation of allocation adequate?
2.	Was the treatment allocation concealed?
3.	Were details of the intervention administered to each group presented?
4.	Were details of the rehabilitation/follow-up process presented?
5.	Was the experience or skill of the care providers in each arm presented?
5.1	Were years of experience presented for each healthcare provider?
5.2	Was the annual number of similar interventions performed by the same care provider
	presented?
5.3	Was the annual number of general interventions performed by the same care provider
	presented?
5.4	Was any account for care provider's learning curve presented?
6.	Was the experience or skill of the care providers in each arm appropriate?
7.	Was participant adherence assessed quantitatively?
8.	Were participants adequately blinded?
0.1	
8.1	In case of comparison of two operations with different operation marks (i.e.
0	arthroscopic versus open operation) answer this item with "not-applicable".
9.	Was the level of activity of the patients adequately presented?
0.1	Was the number of contact (collision athlates and non-contact (collision athlates
9.1	was the number of contact/consion atmetes and non-contact/consion atmetes
92	Was the number of athletes participating in competitive /recreational sports
5.2	nresented?
10	Were details of the comorbidity/associated lesions presented?
10	Were care providers or persons caring for the participants adequately blinded?
11.	were care providers of persons caring for the participants adequately billidea.
11.1	In case that the surgeon performing the operation was not blinded, was the person
	taking care of the follow up adequately blinded?
12.	Were all other aspects of treatment and care identical for each arm?
13.	Were numbers of patients who were screened but found to be not eligible mentioned?
_	
13.1	Are patients that withdrew or that were lost to follow-up presented?
13.2	Are they comparable for each arm?
14.	Were outcome assessors adequately blinded to assess the primary outcomes?
15.	If outcome assessors were not adequately blinded, were specific methods used to avoid
	ascertainment bias?
16.	Was the follow-up schedule the same in each group?
17.	Were the main outcomes analyzed according to the intention-to-treat principle?
18.	Was the amount of complications presented?

Appendix III. Study characteristics								
	Follow-up (months)	Sample size	Intervention	Control	Results group intervention			
Archetti Netto 18	37.5 (mean)	50	Arthroscopic techniques	Open techniques	DASH			
Bottoni ¹⁹	32 (mean)	64	Arthroscopic techniques	Open techniques	Failure, Operative time, SANE, SST, WOSI, UCLA, FF, ER, IR			
Castagna ²⁰	24 (mean)	40	Anterior suture anchors capsulorraphy	Two posterior plications in addition to the anterior capsulorraphy	FF, ER add, ER ab IR, UCLA, ASES, Constant			
Elmlund ²¹	80 (median)	40	Polygluconate-B polymer tack	Self-reinforced poly-L-lactic acid polymer tack	Failure, ER ab, STR, Constant, Rowe			
Fabbriciani 22	24 for all patients	60	Arthroscopic techniques	Open techniques	Recurrence, Rowe, Constant			
Hiemstra ²³	194 (mean)	48	Arthroscopic techniques	Open techniques	STR in 60° and 180° IR and ER concentric and excentric			
Jørgensen ²⁴	36 (median)	41	Arthroscopic techniques with capsular plication	Open techniques using Mitec anchors	Dislocation, Subluxation, laxity, hospitalization duration, ROM, cosmetic complaints, Rowe, modified Constant			
Magnusson ²⁵	25 (mean)	40	Polygluconate-B polymer tack	Self-reinforced poly-L-lactic acid polymer tack	Failure, ROM, Rowe, Constant, radiographic visibility of drill holes			
Mahiroğulları ²⁶	26.1 (mean)	64	Open Bankart repair	Arthroscopic Bankart repair	Rowe, VAS, ROM			
McRae ²⁷	24 (minimum)	88	Arthroscopic Bankart repair with ETAC	Arthroscopic Bankart repair without ETAC	Dislocation, subluxation, WOSI, ASES, Constant			
Milano ²⁸	24.5 (median)	78	Arthroscopic stabilization with metal suture- anchors	Arthroscopic stabilization with biodegradable suture-anchors	Dislocation, DASH, Rowe, Constant			
Mohtadi ²⁹	24 (mean not stated)	196	Arthroscopic techniques	Open techniques	Recurrence, WOSI, ASES			
Monteiro ³⁰	31.47 (mean)	50	Arthroscopic techniques with absorbable sutures	Arthroscopic techniques with nonabsorbable sutures	Rowe, ASOSS			

Norlin ³¹	24 (mean not stated)	40	Arthroscopic Bankart repair with Mitek anchors	Arthroscopic Bankart repair with bone sutures	Stability, ROM, Rowe, concentric and eccentrum STR			
Owens ³²	24 (minimum)	26	Arthroscopic techniques	Open techniques	SANE, WOSI, ASES, SST, Rowe, Tenger			
Rhee ³³	12 (mean not stated)	60	Open Bankart repair	Arthroscopic Bankart repair	STR			
Robinson ³⁴	24 (minimum)	88	Arthroscopic examination and joint lavage	Arthroscopic examination and joint lavage and an anatomic repair of the Bankart lesion	Instability, DASH, WOSI, SF-36, ROM, satisfaction, health service costs, complications			
Salomonsson ³⁵	120 (mean not stated)	66	Bankart repair using Mitek GI/GII anchors combined with capsular imbrication	Putti-Platt procedure	STR, Rowe, ROM, WOSI			
Sperber ³⁶	24 (mean not stated)	56	Arthroscopic reconstruction with the use of biodegradable tacks	Open reconstruction with suture anchors	Recurrence, complications, reoperations			
Tan ³⁷	31 (mean)	130	Arthroscopic Bankart repair with Gll nonabsorbable anchor	Arthroscopic Bankart repair with Panalock absorbable anchor	Recurrent instability, level of sporting ability, Oxford Insability score, VAS, SF-12			
Warme ³⁸	25 (mean)	40	Open Bankart repair with absorbable suture anchors	Open Bankart repair with nonabsorbable suture anchors	Failure, Rowe			
Zarezade ³⁹	Not stated	40	Arthroscopic Bankart repair	Bristow procedure	Constant, ASES, UCLA, Rowe, satisfaction			
Abbreviations:								
DASH = Disabilities of t	he Arm, Shoulder and	Hand						
ROM = range of motion	ı							
SANE = Single Assessment Numeric Evaluation								
SST = Simple Shoulder Test								
WOSI = Western Ontar	io Instability Index							
UCLA = University of Ca	alifornia, Los Angeles e	valuation						
FF = forward flexion								
ER = external rotation;	add= adducted, ab=ab	ducted						
IR = internal rotation								
STR= strength								
VAS = visual analog scale								

ASES = American Shoulder and Elbow Surgeons Standardized Shoulder Assessment Form

ASOSS = Athletic Shoulder Outcome Scoring System

SF-36= short form 36, SF-12 = short form 12