Appendix S1. Search strategy. Since this is a very extensive supplemental material, the format and content have not been edited by JRM

Table A1.1. Key words and search fields used in the search

	Pathology		Condition		Joint		Intervention
MeSH terms	exp calcium/ OR exp calcinosis/	AND	exp tendinopathy/ OR exp tendon injuries/	AND	exp shoulder/ OR exp rotator cuff/	AND	exp "Extracorporeal Shockwave Therapy/" (MeSH Heading) exp Ultrasonography, Interventional exp "Physical Therapy Modalities" exp "Conservative Treatment"
Free Text (deafult)	calc*		tend*		shoulder* OR rotator cuff OR supraspinatus OR infraspinatus OR subscapularis OR "teres minor"		shock* OR ESWT OR ESWL OR RSW OR ultrasoun* OR ultrason* OR inject* OR aspiration OR irrigation OR barbotage OR needl* OR physiother* OR "physical therap*" OR exercise* OR "transcutaneous electrical nerve stimulation"
							conservative OR non-operative OR non-surgical

Table A1.2. Database specific searches

Database	Specifics	Search	
EMBASE	Advanced	#1	exp calcium/ OR exp calcinosis/ OR calc*.mp
(Ovid)	search	#2	exp tendinopathy/ OR exp tendon injuries/ OR tend*.mp
	MeSH and	#3	exp shoulder/ OR exp rotator cuff/ OR shoulder*.mp OR rotator cuff.mp
	multiple		OR supraspinatus.mp OR infraspinatus.mp OR subscapularis.mp OR teres
	purpose search	11.4	minor.mp
	(default free	#4	exp Extracorporeal shockwave therapy/ OR shock*.mp OR ESWT.mp OR
	text)	ше	ESWL.mp OR RSW.mp
		#5	exp Interventional ultrasonography/ OR ultrasoun*.mp OR ultrason*.mp
			OR inject*.mp OR aspiration.mp OR irrigation.mp OR barbotage.mp OR
		#6	needl*.mp exp Physical Therapy Modalities/ OR physiother*.mp OR physical
		π0	therap*.mp OR exercise*.mp OR "transcutaneous electrical nerve
			stimulation".mp
		#7	exp Conservative Treatment/ OR conservative OR non-operative OR non-
		πι	surgical
		#8	#1 AND #2 AND #3
		#9	#4 OR #5 OR #6 OR #7
		#10	#8 AND #9
Medline	Advanced	#1	exp calcium/ OR exp calcinosis/ OR calc*.mp
(Ovid)	search	#2	exp tendinopathy/ OR exp tendon injuries/ OR tend*.mp
` '	MeSH and	#3	exp shoulder/ OR exp rotator cuff/ OR shoulder*.mp OR rotator cuff.mp
	multiple		OR supraspinatus.mp OR infraspinatus.mp OR subscapularis.mp OR teres
	purpose search		minor.mp
	(default free	#4	exp Extracorporeal shockwave therapy/ OR shock*.mp OR ESWT.mp OR
	text)		ESWL.mp OR RSW.mp
		#5	exp Interventional ultrasonography/ OR ultrasoun*.mp OR ultrason*.mp
			OR inject*.mp OR aspiration.mp OR irrigation.mp OR barbotage.mp OR
			needl*.mp
		#6	exp Physical Therapy Modalities/ OR physiother*.mp OR physical
			therap*.mp OR exercise*.mp OR "transcutaneous electrical nerve
			stimulation".mp
		#7	exp Conservative Treatment/ OR conservative OR non-operative OR non-
		110	surgical
		#8	#1 AND #2 AND #3
		#9 #10	#4 OR #5 OR #6 OR #7
CINAHL	A dryamand	#10	#8 AND #9 (MII "Coloinm" OP "coloinesis")
(EBSCOhost)	Advanced search	S1 S2	(MH "Calcium" OR "calcinosis") calc*
(EBSCOllost)	MH and default	S2 S3	(MH "tendinopathy" OR "tendon injuries")
	free text="select	S4	tend*
	a field", some	S5	(MH "shoulder" OR "rotator cuff")
	MeSH not	S6	shoulder* OR "rotator cuff" OR supraspinatus OR infraspinatus OR
	available so	БО	subscapularis OR "teres minor"
	omitted/replace	S 7	(MH "Lithotripsy")
	d by similar	S8	(MH "Physical Therapy")
	.	S 9	shock* OR ESWT OR ESWL OR RSW OR ultrasoun* OR ultrason* OR
			inject* OR aspiration OR irrigation OR barbotage OR needl* OR
			physiother* OR "physical therap*" OR exercise* OR "transcutaneous
			electrical nerve stimulation" OR conservative OR non-operative OR non-
			surgical
		S10	((S1 OR S2) AND (S3 OR S4) AND (S5 OR S6)) AND (S7 OR S8 OR
			S9)
Cochrane	Search manager,	#1	calcium [go to MeSH tab, search term, explode all trees,
Register of	then back to		add to search manager]
Clinical Trials	MeSH or search	#2	calcinosis [go to MeSH tab]
	tab for next line,	#3	cale* [in search tab, copy and paste line, title/abtract/keywords, search,
	repeat.		add to search manager]
		#4	tendinopathy [go to MeSH tab]

	MeSH and	#5	tendon injuries	[go to MeSH t	•
	title/abstract/key	#6	tend*	[go to search	•
	word (default	#7	shoulder	[go to MeSH t	
	free text)	#8	rotator cuff	[go to MeSH t	•
	? instead of #	#9	shoulder* OR "rot	ator cuff" OR supra	aspinatus OR infraspinatus OR
	for single		subscapularis OR '	"teres minor" [go to	search tab]
	truncation	#10	Extracorporeal Sho	ockwave Therapy	[go to MeSH tab]
		#11	Ultrasonography, l	Interventional	[go to MeSH tab]
		#12	Physical Therapy I	Modalities	[go to MeSH tab]
		#13	Conservative Treat	tment	[go to MeSH
			tab]		
		#14	shock* OR ESWT	OR ESWL OR RS	SW OR ultrasoun* OR ultrason* OR
			inject* OR aspirati	ion OR irrigation C	OR barbotage OR needl* OR
				_	R exercise* OR "transcutaneous
					ervative OR non-operative OR non-
			surgical /go to sea		1
		#15			OR #6) AND (#7 OR #8 OR #9)
				OR #12 OR #13 (
PEDro	Simple search	calc* te	endin* treatment		<i>"</i>
	1		endon* treatment		
SPORTDiscus	Advanced	S1	(SU ("Calcium" O	R "calcinosis")) OI	R (calc*)
	search	S2		OR "tendon injuries	
	Uses SU and	S3	, ,		(shoulder* OR "rotator cuff" OR
	default free				ubscapularis OR "teres minor")
	text="select a	S4			ESWT OR ESWL OR RSW)
	field"	S5			OR aspiration OR irrigation OR
	Some MeSH not		barbotage OR need		8
	available so	S6	C		ther* OR "physical therap*" OR
	omitted or				cal nerve stimulation")
	changed to	S7		on-operative OR n	,
	similar (e.g.	S8		S3) AND (S4 OR	<u> </u>
	tendinopathy	20	(51111/2 52111/2	55)11112 (5.511	se cirse cirs.)
	not available so				
	tendinitis was				
	used)				
	assa)				

Appendix S2. Studies excluded on full-text.

Table A2.1. Studies excluded on full-text with reason for exclusion

Number	Study by first author, year	Reason for exclusion
1	Albert, 2007 (63)	Previous steroid injection reported (subacromial steroid injection)
		Previous US-PICT reported (calcification needling)
2	Cacchio, 2006 (64)	Previous steroid injection reported (steroid injection)
3	Cacchio, 2009 (65)	Previous steroid injection reported (steroid injection)
4	Carlisi, 2018 (66)	Not randomized (matched controls)
5	Chiou, 2001 (67)	Not randomized (Group 1 and 3a were randomized, but 3b was not. Group 3a
		and 3b were analysed together and therefore randomization did not properly
		occur)
6	Cosentino, 2003 (68)	Previous steroid injection reported (local steroid injection)
7	Cosentino, 2004 (69)	Not randomized (longitudinal cohort study)
		Previous steroid injection reported (local steroid injection)
8	Daecke, 2002 (70)	Not randomized (divided in order of enrollment)
9	de Boer, 2017 (71)	Previous steroid injection reported (failed cortisone infiltration)
10	de Witte, 2013 (72)	Pre-existing pathology reported (partial rotator cuff tears)
11	de Witte, 2017 (73)	Pre-existing pathology reported (partial rotator cuff tears);
		Surgical intervention reported
12	Farr, 2011 (74)	Previous steroid injection reported (failed repetitive subacromial infiltrations)
13	Gerdesmeyer, 2003 (75)	Previous steroid injection reported (corticosteroid injection)
14	Haake, 2002 (76)	Previous steroid injection reported (subacromial injections)
15	Hsu, 2008 (77)	Previous steroid injection reported (corticosteroid injection)
16	Jiménez-García, 2008 (27)	Full-text not available in English (attempted to contact author 3 times)
17	Kransy, 2005 (78)	Previous steroid injection reported (infiltration with local steroid)
		Previous ESWT reported (ESWT previously attempted)
18	Loew, 1999 (79)	Previous steroid injection reported (subacromial injections of steroid)
19	Mangone, 2010 (80),	Not randomized (no mention of randomization)
20	Monteforte, 2002 (28)	Full-text not available in English (attempted to contact author)
21	Perlick, 2003 (81)	Previous steroid injection reported (subacromial injections of steroid)
22	Pleiner, 2004 (82)	Previous steroid injection reported (local infiltration of glucocorticoids)
23	Schmitt, 2001 (83)	No radiological or sonographic observation of calcific tendinopathy (non-
		calcific tendinopathy cohort)
24	Seil, 1999 (26)	Full-text not available in English (attempted to contact author 3 times)
25	Shomoto, 2002 (84)	Pre-existing pathology reported (general disease, complicated diabetes
		mellitus)
_26	Wang, 2003 (85)	Not randomized (subjects selected control or intervention group)

Appendix S3. List of articles included in systematic review.

- 1. Del Castillo-Gonzalez F, Ramos-Alvarez JJ, Rodriguez-Fabian G, Gonzalez-Perez J, Jimenez-Herranz E, Varela E. Extracorporeal shockwaves vs ultrasound-guided percutaneous lavage for the treatment of rotator cuff calcific tendinopathy: a randomized controlled trial. Eur J Phys Rehabil Med 2016; 52: 145–151.
- 2. Ebenbichler GR, Erdogmus CB, Resch KL, Funovics MA, Kainberger F, Barisani G, et al. Ultrasound therapy for calcific tendinitis of the shoulder. N Engl J Med 1999; 340: 1533–1538.
- 3. Frassanito P, Cavalieri C, Maestri R, Felicetti G. Effectiveness of extracorporeal shock wave therapy and kinesio taping in calcific tendinopathy of the shoulder: a randomized controlled trial. Eur J Phys Rehabil Med 2018, 54: 333–340.
- 4. Hearnden A, Desai A, Karmegam A, Flannery M. Extracorporeal shock wave therapy in chronic calcific tendonitis of the shoulder is it effective? Acta Orthop Belg 2009; 75: 25–31.
- 5. Ioppolo F, Tattoli M, Di Sante L, Attanasi C, Venditto T, Servidio M, et al. Extracorporeal shock-wave therapy for supraspinatus calcifying tendinitis: a randomized clinical trial comparing two different energy levels. Phys Ther 2012; 92: 1376–1385.
- 6. Kim EK, Kwak KI. Effect of extracorporeal shock wave therapy on the shoulder joint functional status of patients with calcific tendinitis. J Phys Ther Sci 2016; 28: 2522–2524.
- 7. Kim YS, Lee HJ, Kim YV, Kong CG. Which method is more effective in treatment of calcific tendinitis in the shoulder? Prospective randomized comparison between ultrasound-guided needling and extracorporeal shock wave therapy. J Shoulder Elbow Surg 2014; 23: 1640–1646.
- 8. Leduc BE, Caya J, Tremblay S, Bureau NJ, Dumont M. Treatment of calcifying tendinitis of the shoulder by acetic acid iontophoresis: a double-blind randomized controlled trial. Arch Phys Med Rehabil 2003; 84: 1523–1527.
- 9. Orlandi D, Mauri G, Lacelli F, Corazza A, Messina C, Silvestri E, et al. Rotator cuff calcific tendinopathy: randomized comparison of US-guided percutaneous treatments by using one or two needles. Radiology 2017; 285: 518–527.
- 10. Pan P, Chou C, Chiou H, Ma H, Lee H, Chan R. Extracorporeal shock wave therapy for chronic calcific tendinitis of the shoulders: a functional and sonographic study. Arch Phys Med Rehabil 2003; 84: 988–993.
- 11. Perron M, Malouin F. Acetic acid iontophoresis and ultrasound for the treatment of calcifying tendinitis of the shoulder: a randomized control trial. Arch Phys Med Rehabil 1997; 78: 379–384
- 12. Peters J, Luboldt W, Schwarz W, Jacob V, Herzog C, Vogl TJ. Extracorporeal shock wave therapy in calcific tendinitis of the shoulder. Skeletal Radiol 2004; 33: 712–718.
- 13. Rompe JD, Bürger R, Hopf C, Eysel P. Shoulder function after extracorporal shock wave therapy for calcific tendinitis. J Shoulder Elbow Surg 1998; 7: 505–509
- 14. Sabeti M, Dorotka R, Goll A, Gruber M, Schatz K. A comparison of two different treatments with navigated extracorporeal shock-wave therapy for calcifying tendinitis a randomized controlled trial. Wien Klin Wochenschr 2007; 119: 124–128.
- 15. Sabeti-Aschraf M, Dorotka R, Goll A, Trieb K. Extracorporeal shock wave therapy in the treatment of calcific tendinitis of the rotator cuff. Am J Sports Med 2005; 33: 1365–1368.
- 16. Sconfienza L, Bandirali M, Serafini G, Lacelli F, Aliprandi A, Leo G, et al. Rotator cuff calcific tendinitis: does warm saline solution improve the short-term outcome of double-needle US-guided treatment? Radiology 2012; 262: 560–566.
- 17. Tornese D, Mattei E, Bandi M, Zerbi A, Quaglia A, Melegati G. Arm position during extracorporeal shock wave therapy for calcifying tendinitis of the shoulder: a randomized study. Clin Rehabil 2011; 25: 731–739.
- 18. Zhu J, Jiang Y, Hu Y, Xing C, Hu B. Evaluating the long-term effect of ultrasound-guided needle puncture without aspiration on calcifying supraspinatus tendinitis. Adv Ther 2008; 25: 1229–1234.

Appendix S4. Quality appraisal and assessment of risk of bias.

Table A4.1. Quality appraisal of risk of bias assessment

Study/ source of bias	Was the method of randomizat on adequate?	Was the treatment i allocation concealed	Was the patient blinded to	Was the care provider blinded to	Was the outcome assessor blinded to the interventio n?	rate described and	ed participants analysed in the group to which they were	reports of the study free of suggestio n of selective outcome reporting	similar at baseline regarding the most important prognosti ? c indicators	interventions avoided or similar?	ce	Was the timing of the outcome assessme nt similar in all groups?	sources: power analysis ?	sources: validate d	sources: conflict of interest declared	of bias
							allocated'	?	?							
del Castillo- Gonzalez et al. (47)	+	+	_	_	?	_	?	+	+	_	_	+	_	VAS	+	High
Ebenbichler et al. (41)	+	+	+	+	+	+	?	+	+	+	+	+	_	CMS	_	High
	+	+	_	_	?	+	?	+	+	+	+	+	+	VAS, DASH, SSRQ, OSS	+	High
Hearnden et al. (42)	_	+	+	_	?	+	+	_	+	+	+	+	_	VAS, CMS	+	High
Ioppolo et al. (37)	+	+	+	_	+	+	+	+	+	+	+	+	+	VAS, CMS	_	High
Kim et al. (48)	+	?	_	_	?	+	?	+	+	_	+	+	+	VAS	+	High
Kim et al. (43)	_	?	?	?	?	+	?	+	?	+	+	+	_	CMS	_	High
Leduc et al. (44)	?	?	+	+	+	_	?	+	+	+	_	+	+	SPADI	+	High
Orlandi et al. (22)	+	?	_	?	?	+	?	+	+	_	+	+	+	CMS	+	High
Pan et al. (49)	?	?	_	_	?	+	?	+	+	+	+	+	_	CMS, VAS	+	High
Perron et al. (45)	?	_	_	_	+	+	?	+	+	_	+	+	_	_	+	High
Peters et al. (46)	+	?	+	+	?	+	+	+	+	+	+	+	_	_	_	High
Rompe et al. (38)	_	?	_	_	?	+	?	+	?	_	+	+	_	CMS	_	High
Sabeti et al. (50)	_	?	_	_	+	+	+	+	?	_	+	+	+	CMS, VAS	+	High

Sabeti-Aschraf et –	?	+	_	_	+	+	+	?	+	+	+	_	CMS, +	High
al. (51)													VAS	
Sconfienza et al. –	?	_	_	?	_	?	+	+	_	+	+	_	VAS +	High
(52)														
Tornese et al. (53) +	?	_	_	+	+	+	+	+	+	+	+	+	CMS +	High
Zhu et al. (54) –	?	?	?	?	+	+	+	+	_	+	+	_	VAS –	High

In relation to assessment of quality, "no" would indicate a potential high risk of bias and the opposite for an answer of "yes"

VAS: visual analogue scale; CMS: Constant Murley Score for shoulder function; SPADI: Shoulder Pain And Disability Index; DASH: Disabilities of the Arm: Shoulder and Hand; SSRQ: Subjective Shoulder Rating Questionnaire; OSS: Oxford Shoulder Score.

⁺⁼Yes; -=No; ?=Unclear

Appendix S5. Data extraction tables.

Table A5.1. Results of placebo trials – extracorporeal shockwave therapy (ESWT)

Small number of participants, only single blinded, reporting bias
participants, only single blinded,
single blinded,
reporting olds
Not a true control,
small number of
participants, high risk of bias
throughout, poorly
reported
•
Variable follow-up
times
sm pa ris thi rej

RoB: risk of bias; m: months; w: weeks; yrs: years; Grp: group; RC: rotator cuff; RCCT: rotator cuff calcific tendinopathy; OA: osteoarthritis; RA: rheumatoid arthritis; VAS: visual analogue scale for pain; CMS: Constant Murley Score for shoulder function; ROM: range of motion; ESWT: extracorporeal shockwave therapy; EFD: energy flux density; US-PICT: ultrasound-guided percutaneous irrigation of calcific tendinopathy; KT: kinesiotape; MMT: Manual Muscle Test; TENS: transcutaneous electrical nerve stimulation; Rx: treatment; CD: calcium deposit; US: ultrasound; PT: physiotherapy; AAI: acetic acid iontophoresis; sig: significant

Table A5.2. Results of inter-modality trials – ultrasound-guided percutaneous irrigation of the calcific deposits (US-PICT) vs extracorporeal shockwave therapy (ESWT)

	RoB /15	Intervention	n	Outcome measure (follow-up)	Findings	Other conclusions	Limitations
Del Castillo et al. (47)	7	Group 1: US-PICT – anxiolytic (1.5 mg bromazepam) 30 min prior, 10mL local anaesthetic (2% mepivacaine 10 mL), single (18G/20G) needle, normal saline lavage (no aspiration), 2 mL bursal steroid injection Group 2: ESWT – localised by fluoroscopy, medium energy (0.20 mJ/mm²), 8–10Hz, 2×1000 impulses, 2×weekly for 2 wk, ibuprofen 600 mg/12 h for 3 days post		Pain 3, 6, 12 m Calcific morphology 3, 6, 12 m	VAS Significant improvement in pain score of both groups over time (p <0.01). Significant differences between groups at 3, 6, 12 m favouring US-PICT (p <0.01). Calc size Significant reduction in calcification size in both groups over time (p <0.01). Significant differences between groups at 3, 6, 12 m favouring US-PICT (p <0.01).	Positive correlation between size of calcification and pain over time after treatment in both	No placebo, high-risk of bias
Kim et al. (48)	9	Group 1: US-PICT – local anaesthesia (2% lidocaine), single 18G needle without lavage, multiple percutaneous punctures. Then subacromial steroid injection (1mL methylprednisolone acetate). Oral NSAIDs for 7 days. Group 2: high ESWT – 3 sessions, 1 w apart, 1000 impulses at 0.36 mJ/mm² (high energy), localized by maximum tenderness. Oral NSAIDs for 7 days.	25	Pain 6, 12 w, 6, 12 m, last follow- up visit Function 6, 12 w, 6, 12 m, last follow- up visit	VAS Significant difference in favour of US-PICT for VAS at 12m (p <0.05); US-PICT=1.4; ESWT=3.3) NS difference between groups at 6 w, 12 w or 6 m ASES Significant difference in favour of US-PICT for ASES at 12m (p <0.05); US-PICT=90.3; ESWT=74.6) NS difference between groups at 6 w, 12 w or 6 m SST Significant difference in favour of US-PICT for SST at 12m (p <0.05); US-PICT=83.3;	NS correlation between the initial size of the calcium deposit and clinical outcomes in both groups $(p<0.05)$	No placebo, small number of participants inconsistent data reporting for last follow up time, stage of CT not take into account, cointervention (SAI + US- PICT), X-rays
				Calcific morphology 6, 12 w, 6, 12 m, last follow- up visit	ESWT=70.8) NS difference between groups at 6 w, 12 w or 6 m Calcification size Significant difference in favour of US-PICT for calcification size at last follow-up (** uncertain time interval)		and not US/MRI

RoB: risk of bias; m: months; w: weeks; yrs: years; Grp: group; RC: rotator cuff; RCCT: rotator cuff calcific tendinopathy; OA: osteoarthritis; RA: rheumatoid arthritis; VAS: Visual Analogue Scale for pain; CMS: Constant Murley Score for shoulder function; ROM: range of motion; ESWT: extracorporeal shockwave therapy; EFD: energy flux density; US-PICT: ultrasound-guided percutaneous irrigation of calcific tendinopathy; KT: kinesiotape; MMT: Manual Muscle Test; TENS: transcutaneous electrical nerve stimulation; Rx: treatment; CD: calcium deposit; US: ultrasound; PT: physiotherapy; AAI: acetic acid iontophoresis; sig: significant.

Table A5.3. Results of intra-modality trials – extracorporeal shockwave therapy (ESWT) energy flux density comparison

	RoB /15	Intervention	n	Outcome measure (follow-up)	Findings	Other conclusions	Limitations
Ioppolo et al. (37)	13	Group 1: 4 sessions, 1 p/week, 0.20 mJ/mm ₂ , 2400 pulses, NSAID	23	Pain 3, 6 m (VAS)	VAS Significant difference in favour of Grp1 for level of	No correlation between calcific	No placebo, small number
` '		(dexibuprofen 400 mg) 1 h prior, but NO local used Group 2: 4 sessions, 1 p/week, 0.10 mJ/mm ₂ , 2 400 pulses, NSAID	23	12 m (NRS)	pain at 6 m, but not at 3 m NRS Significant difference in favour of Grp1 for level of pain at 12 m (p<0.045); Grp1: mean=2.60, SD 2.1,	morphology and symptoms	of participants
		(dexibuprofen 400 mg) 1 h prior, but NO local used		Function 3, 6 m Calcific morph.	95% CI=1.62–3.58; Grp2: mean=4.56, SD=3.5, 95% CI=2.69–6.44. <i>CMS</i>		
				6 m	Significant difference in favour of Grp1 for CMS at 6 m, but not at 3 m Complete resolution of calcification NS difference between groups at 6m		
Peters et	10	Group 1: med ESWT – 0.15 mJ/mm ²	30	Pain	Pain	Haematomas are	Variable
al. (46)		(E1), 1500 pulses per session, isolated		During	Significant difference in pain levels favouring	more common in	follow-up
		\mathcal{C}	31	treatment	Grp1 (low-energy ESWT) compared with Grp2	higher energy	times
		Group 2: high ESWT – 0.44 mJ/mm ²			(high-energy-ESWT) during the treatment	levels, ESWT is	
		(E2), 1500 pulses per session, isolated	29	Pain and	(p<0.001)	still appropriate	
		using US		function	Symptoms	without local	
		Group 3: Sham – indistinguishable		Throughout	Significant difference in number of sessions	anaesthesia	
				Pathology 6 m after last	required to resolve symptoms favouring Grp2 compared with Grp 1 and Grp3 (<i>p</i> <0.001)		
				session	Compared with Grp 1 and Grp5 (p <0.001) Calcification resorption		
				86881011	Significant difference in calcific resorption		
					favouring Grp2 (high-energy ESWT) over Grp1 and Grp3 at 6 m follow-up		
Rompe et	5	Group 1: low-energy ESWT – 1500	50	Function	CMS	Significant	Additional
al. (38)		impulses of 0.06 mJ/mm2, without		6, 24 w	Significant difference in favour of Grp2 (high-	difference in	treatment
		local anaesthesia			frequency ESWT) for CMS at 24 w only (<i>p</i> <0.01)	favour of Grp2	during follow-
		Group 2: high-energy ESWT – 1500	50	Calcific	Partial/complete resorption	(high-frequency	up to both
		impulses of 0.28 mJ/mm ₂ , under		morphology	Significant difference in favour of Grp2 (high-	ESWT) for	groups
		regional anaesthesia All: 1 session per patient, physical therapy for the next 3 days, then continue exercises at home			frequency ESWT) for partial/complete resorption of CD at 24 w (p <0.01)	patient satisfaction at 24 w (<i>p</i> <0.01)	
Sabeti et	9	Group 1: low-energy ESWT – 3 times	21	Pain	VAS	Patients with	Failed to
al. (50)	,	using constant 0.08 mJ/mm ₂ with		12 w Function	NS difference between groups for VAS at 12 w $(p=0.42)$	complete dissolution of	exclude RC tears, variable

local anaesthetic Group 2: medium-energy ESWT – 2 sessions of 0.2 mJ/mm2 with 2000 impulses; subacromial local	23	12 w Calcific morphology	CMS NS difference between groups for CMS at 12 w (p=0.69) Calcific morphology Values of significance not reported	calcium deposit had the best clinical results	treatment number as well as dose
anaesthetic (Lidocaine 5 ml)					

RoB: risk of bias; m: months; w: weeks; yrs: years; Grp: group; RC: rotator cuff; RCCT: rotator cuff calcific tendinopathy; OA: osteoarthritis; RA: rheumatoid arthritis; VAS: visual analogue scale for pain; CMS: Constant Murley Score for shoulder function; ROM: range of motion; ESWT: extracorporeal shockwave therapy; EFD: energy flux density; US-PICT: ultrasound-guided percutaneous irrigation of calcific tendinopathy; KT: kinesiotape; MMT: Manual Muscle Test; TENS: transcutaneous electrical nerve stimulation; Rx: treatment; CD: calcium deposit; US: ultrasound; PT: physiotherapy; AAI: acetic acid iontophoresis; NRS: numerical rating scale; significant.