Appendix 1: Data-extraction form:

Authors:		
Year Published		
Published in (Journal):		
Country of research:		
Design:		
Characteristics study		
Disease:		
Intervention:		
Period of inclusion:		
Inclusion criteria:		
Exclusion criteria:		
Intervention:		
Control:		
Characteristics Randomisation		
Randomisation:		
Allocation concealment:		
Blinding:		
Characteristics Surgery		
	Group I	Group II
Position:		
Arthroscopic/Open		
Acromioplasty?		
coraco-acromial ligament release?		
Bursectomy?		
Method of localisation calcifications		
Method of debridement		

Additional operation information:		
Rehabilitation protocol:		
Outcome measures		
Primary outcomes		
Secondary outcomes		
Other outcomes		
Follow-up		
Statistical analysis		
Statistical program used?		
Analyses used		
Lost to follow-up:		
Reasons:		

Baseline characteristics			
	Group I	Group II	p-values
Overall comment			
Number of patients			
Age			
Mean(SD)			
Gender (male/female)			
Affected tendon (%)			
Size, mean in mm (SD)			
Mole classification, n			

(%)			
Type A			
Type B			
Type C			
Affected side (%)			
Duration of symptoms in wks (range)			

Results

	Group I	Group II	p-values
Follow-up, n (%)			
6 weaks			
12 mths			
DASH/ score (SD)			
6 weaks			
12 mths			
VAS (SD)			
6 weaks			
12 mths			
CMS (SD)			
6 weaks			
12 mths			
SF-12			
6 weaks			
12 mths			

Appendix 2: Characteristics of included studies (ordered by reference)

Rubenthaler 2003

Authors	Rubenthaler F, Ludwig J, Wiese M, et al
Year published:	2003
published in (Journal):	Clinical orthopaedics and related research
Country of research:	Germany
Design:	Prospective randomized trial
Characteristics study	
Disease:	Chronic calcifying tendinitis
Intervention:	Endoscopic decompression vs open decompression
Period of inclusion:	1995-1996
Inclusion criteria:	Chronic calcifying tendinopathy of the rotator cuff, intensive nonoperative treatments failed in all patients before surgical treatment.
Exclusion criteria:	-
Intervention:	Endoscopic decompression
Control:	Open decompression
Placebo?	-
Outcome measures	
Primary outcomes	CMS
Secondary outcomes	Patte score
Other outcomes	Sonographic examination, VAS
Follow up time:	16,3 months, with an average of 17 months for patients who had endoscopic surgery and 15,7 months for patients who had open surgery.

Clement 2015

Authors:	Clement ND, Watts AC, Phillips C, McBirnie JM.

Year Published	2015
Published in (Journal):	Arthroscopy: The Journal of Arthroscopic and Related Surgery
Country of research:	UK
Design:	Prosp. randomized trial
Characteristics study	
Disease:	Calcifying tendinitis of the shoulder
Intervention:	Surgical procedures for calcifying tendinitis of the shoulder
Period of inclusion:	4 year period, 2007-2011
Inclusion criteria:	The inclusion criteria were symptomatic calcific tendonitis, failed nonoperative measures, possibility that the patient would be a candidate for elective arthroscopic surgery, and calcium deposit evident on the immediate preoperative radiograph.
Exclusion criteria:	Exclusion criteria were bilateral simultaneous calcific tendonitis (within 1 year) and previously known surgery or pathology of the affected shoulder
Intervention:	Arthroscopic Acromioplasty + debridement of calcifications
Control:	debridement of calcifications
Outcome measures	
Primary outcomes	DASH
Secondary outcomes	SF-12, CMS, VAS for pain

Other outcomes	None
Follow-up	6 weeks and 1 year
Statistical analysis	
Statistical program used?	Yes, Statistical Package for Social Sciences, version 17.0
Analyses	Student's t-test or Mann-Withney U-test, MANOVA, x^2-test or Fisher's exact test Post hoc subgroup analysis for acromial pathology
Lost to follow-up:	Yes, n= 5
Reasons:	mentioned

Hofstee 2007

Authors	Hofstee DJ, Gosens T, Bonnet M, De Waal Malefijt J
Year Published	2007
Published in (Journal):	Br. Journal of Sports Medicine
Country of research:	Netherlands
Design:	Retrospective psuedorandomized cohort study
Characteristics study	
Disease	Calcific tendonitis
Intervention	Excision of calcifications
Period of inclusion	-
Inclusion criteria:	Presence of shoulder pain resistant to conservative treatment for at least 6 months and positive impingement signs: a positive Hawkins test and a positive effect of a subacromial infiltration with local anaesthetic, calcifications in the cuff on a conventional x-ray of the shoulder, a sonographically intact rotator cuff and a follow up time of at least 3 years after the

	operation
Exclusion criteria:	Rupture of the rotator cuff, previous surgery at the time of the operation, such as resection of the lateral clavicle, or other pathology of the cervical spine, elbow or wrist.
Intervention	Group A: anterolateral acromioplasty according to Neer with excision of calcifications
Controle	Group B: anterolateral acromioplasty according to Neer without excision of calcifications
Placebo?	-
Outcome measures	
Primary outcomes	DASH
Secondary outcomes	VAS
Other outcomes	Satisfaction with treatment and range of motion
Follow up time:	Minimum of 3 years postoperatively

Marder 2011

Authors:	Marder R, Heiden E, Kin S
Year Published:	2011
Published in (Journal):	Journal of Shoulder and Elbow Surgery
Country of research:	USA
Design:	Retrospective case control design
Characteristics study	
Disease:	Calcific tendonitis of the rotator cuff
Intervention:	Arthroscopic debridement of the deposit alone (D) vs arthroscopic debridement and concomitant subacromial decompression (D + SAD)
Period of inclusion:	1996-2006
Inclusion criteria:	Calcific tendonitis refractory to nonoperative measures

	(1 or more: oral anti-inflammatory medication, steroid injection of the subacromial bursa and physical therapy or a self directed exercise program). intratendinous calcification of the supraspinatus tendon exceeding 10mm2.
Exclusion criteria:	Calcifications of the tendinous insertion (dystrophic calcification)
Intervention:	Arthroscopic debridement of the deposit alone(D)
Controle:	Arthroscopic debridement and concomitant subacromial decompression(D + SAD)
Placebo?	-

Tillander 1998

Authors:	Tillander
Year Published:	1998
Published in (Journal):	J. Shoulder Elbow Surg
Country of research:	Sweden
Design:	Retrospective case control study
Characteristics study	
Disease:	Calcifying tendinitis
Intervention:	Arthroscopic subacromial decompression
Period of inclusion:	1992-1994
Inclusion criteria:	Chronic pain for more than 1 year, which was exacerbated by activity , night pain, and a positive impingement test. Indications for surgery were shoulder pain and impairment of function for more than 1 year despite conservative treatment including physical therapy, nonsteroidal anti-inflammatory medications, and steroid injections.
Exclusion criteria:	Acute exacerbation of calcifying tendinitis who had

	sudden severe pain caused by secondary inflammatory bursitis did not undergo surgery, patients with arthrosis of the glenohumeral joint, previous handsurgery, not available only by phone, rotator cuff ruptures, not available for reexamination
Intervention	Patients with calcifying tendinitis who received ASD
Controle:	Patients without calcifying tendinitis who received ASD
Placebo?	-

Outcome measures	
Primairy outcome	Constant score
Secondary outcomes	Evaluation of calcific deposits
Other outcomes	-
Follow up time	2 years

Maier 2002

Authors:	Maier M, Krauter T, Pellengahr C, Schulz CU, Trouillier H, Anetzberger H, Refior HJ
Year Published	2002
Published in (Journal):	Z Orthop Ihre Grenzgebied
Country of research:	Germany
Design:	Comparative cohort trial

Characteristics study	
Disease:	Calcifying tendinitis of the shoulder
Intervention:	Surgical procedures for calcifying tendinitis of the shoulder
Period of inclusion:	unclear

Inclusion criteria:	12 months conservative therapy resistant CT, Gärtner type I and II calcifications
Exclusion criteria:	Nonavailable x-rays, Gärtner type III calcifications, dystrofic calcifications, full thickness rotator cuff laesion, calcifictions smaller than 5 mm,
Intervention:	Arthroscopic Acromioplasty + debridement of calcifications
Control:	debridement of calcifications
Outcome measures	
Primary outcomes	CMS
Secondary outcomes	-
Other outcomes	None
Follow-up	34 months

Appendix 3: Example search (in Medline through Pubmed):

(((((("Tendinopathy/pathology"[Mesh] OR "Tendinopathy/physiopathology"[Mesh])) OR ("Shoulder Joint/injuries"[Mesh] OR "Shoulder Joint/pathology"[Mesh] OR "Shoulder Joint/physiopathology"[Mesh])) OR ("Rotator Cuff/pathology"[Mesh] OR "Rotator Cuff/physiopathology"[Mesh])) OR ("Calcinosis/pathology"[Mesh] OR "Calcinosis/physiopathology"[Mesh] OR "Calcinosis/therapy"[Mesh])) OR ("Tendinopathy/pathology"[Mesh] OR "Tendinopathy/physiopathology"[Mesh] OR "Tendinopathy/therapy"[Mesh]))) AND (((((((((calcarea)) OR (calcifying)) OR (calcified)) OR (calcification)) OR (calcific))) AND (((((((shoulder)) OR (shoulder joint)) OR (shoulder$)) OR (supraspinatus OR infraspinatus OR subscapular OR teres)) OR (rotator)) OR (rotator cuff))) AND (((((surgery)) OR (surgical treatment)) OR (shoulder surgery)) OR (orthopaedic surgery))) AND ((((((("Calcinosis/surgery"[Mesh])) OR ("Rotator Cuff/surgery"[Mesh])) OR ("Decompression, Surgical"[Mesh])) OR ("Shoulder Impingement Syndrome/surgery"[Mesh])) OR ("Tendinopathy/surgery"[Mesh]))