Supplementary Table S1. Main clinical characteristics of patients included in the study and patients of the overall CALCECHO cohort. No significant difference was found between the two groups.

Characteristics	Total (n=69)	CALCECHO cohort (n=132)	p
Age, mean (SD)	49.8 (15)	49.8 (9.7)	ns
Female sex, n (%)	46 (66.7%)	89 (67.4%)	ns
Physical occupational activities, n (%)	29 (42%)	55 (42.6%)	ns
Affected side, right/left, n	37/32	79/53	ns
Currently off work, n (%)	17 (24.6%)	31 (25.4)	ns
Duration of symptoms in months, mean (SD)	32.4 (40.8)	32.4 (37.9)	ns
VAS at rest/100 mm, mean (SD)	25 (22)	32.2 (25.1)	ns
VAS at motion/100 mm, mean (SD)	68 (15)	72 (16.2)	ns
Nocturnal pain, n (%)	52 (75.4%)	108 (81.8%)	ns
DASH Score, mean (SD)	43.5 (15.2)	46.2 (15.6)	ns
Tendon affected, n (%)			
Supraspinatus	60 (87%)	114 (86.4%)	ns
Infraspinatus	8 (11.5%)	12 (9.1%)	ns
Subscapularis	1 (1.5%)	6 (4.5%)	ns

Maximum long axis of the calcification in mm, mean (SD) 16.5 (4.9) 17.4 (7.4) ns
VAS: visual analogue scale; DASH: disabilities of the arm, shoulder and hand; SD: standard deviation.

Supplementary Table S2. Inter-reader reliability for Gärtner and Molé classifications.

Inter-observer reliability		Gärtner			Molé		
		Reader 1/2	Reader 2/3	Reader 1/3	Reader 1/2	Reader 2/3	Reader 1/3
D0	Weighted kappa (95% CI)	**0.735** (0.559-0.911)	**0.529** (0.322-0.735)	**0.569** (0.349-0.789)	**0.574** (0.391-0.756)	**0.295** (0.136-0.454)	**0.311** (0.141-0.481)
D7	Weighted kappa (95% CI)	**0.389** (0.220-0.557)	**0.255** (0.078-0.432)	**0.404** (0.244-0.565)	**0.356** (0.160-0.551)	**0.274** (0.113-0.435)	**0.286** (0.131-0.441)
M3	Weighted kappa (95% CI)	**0.514** (0.313-0.715)	**0.515** (0.274-0.756)	**0.597** (0.469-0.725)	**0.401** (0.168- 0.634)	**0.299** (0.114-0.484)	**0.399** (0.268-0.530)
M12	Weighted kappa (95% CI)	**0.406** (0.173- 0.638)	**0.492** (0.00-0.984)	**0.549** (0.313-0.785)	**0.300** (-0.66- 0.666)	**0.154** (-0.38- 0.346)	**0.316** (0.183- 0.448)

D0: Day 0 (baseline); D7: day 7; M3: Month 3; M12: Month 12 after ultrasound-guided percutaneous lavage of the calcification.

Supplementary Table S3. Intra-observer reliability for Gärtner and Molé classifications.

Intra-observer reliability		Gärtner			Molé		
		Reader 1	Reader 2	Reader 3	Reader 1	Reader 2	Reader 3
D0	Weighted kappa (95% CI)	**0.688** (0.393-0.983)	**0.929** (0.802-1.056)	**0.614** (0.355-0.872)	**0.508** (0.194-0.823)	**0.527** (0.242-0.811)	**0.438** (0.126-0.749)
D7	Weighted kappa (95% CI)	**0.449** (0.204-0.694)	**0.585** (0.329-0.841)	**0.495** (0.246-0.744)	**0.414** (0.170-0.658)	**0.804** (0.539-1.068)	**0.199** (-0.13-0,411)
M3	Weighted kappa (95% CI)	**0.725** (0.527-0.923)	**0.714** (0.464-0.963)	**0.235** (-0.44-0.514)	**0.732** (0.450-1.013)	**1.0** (1.0-1.0)	**0.532** (0.328-0.737)
M12	Weighted kappa (95% CI)	**0.609** (0.5260.692)	**1.0** (1.0- 1.0)	**-0. 65** (-0.156- 0.027)	**1.0** (1.0-1.0)	**1.0** (1.0-1.0)	**0.409** (0.053- 0.764)

D0: Day 0 (baseline); D7: day 7; M3: Month 3; M12: Month 12 after ultrasound guided percutaneous lavage of the calcification.