

Supplementary Table 4 – Magnetic resonance imaging

MRI	
AC Joint	Abreu classification Grade 0 (No osteoarthritis) Grade 1 (Mild osteoarthritis) Grade 2 (Moderate osteoarthritis) Grade 3 (Severe osteoarthritis)
	ACJ effusion / synovitis (Yes/No)
	ACJ bone edema (Yes/No)
GH Joint	Cartilage damage Grade 1 (Normal) Grade 2 (Cartilage damage) Grade 3 (Endstage osteoarthritis)
	Subchondral bone cyst (Yes/No)
	Bone edema (Yes/No)
	Posterior glenoid retroversion (degrees)
Subacromial space	SA bursitis Grade 1 (Normal) Grade 2 (Mild) Grade 3 (Moderate) Grade 4 (Severe)
Rotator cuff (SSC, SSP, ISP, TM separately)	Zlatkin classification Grade 0 (Normal tendon) Grade 1 (Tendinopathy) Grade 2 (Partial thickness tear) Grade 3 (Full thickness tear)
	Tear size in mm (only if full thickness tear)
	Tendon retraction in mm (only if full thickness tear)
	Calcifications (Yes/No)
	Muscle atrophy (Goutallier/ Fuchs) Goutallier 0 (Normal muscle) Goutallier I (Some fatty streaks) Goutallier II (Less than 50% fatty muscle atrophy) Goutallier III (50% fatty muscle atrophy) Goutallier IV (greater than 50% fatty muscle atrophy)
	Traumatic muscle edema (Yes/No)
Nerves	Denervation edema (Yes/No)
	Subscapular notch entrapment (Yes/No)
GH Joint: bone and cartilage	Cartilage damage Grade 1 (Normal) Grade 2 (Cartilage damage) Grade 3 (Endstage osteoarthritis)
	Subchondral bone cyst (Yes/No)
	Bone edema (Yes/No)
	Posterior glenoid retroversion (degrees)
	Hill Sachs (Yes/No)
	Bony Bankart lesions (Yes/No)
	Other fractures (Yes/No)
	Osteonecrosis (Yes/No)

GH Joint: labrum and biceps	Anterior labrum Grade 1 (Normal) Grade 2 (Small/intrasubstance tear) Grade 3 (Large/complete tear)
	Anterior labral cysts (Yes/No)
	Posterior labrum (Grade I-III) Grade 1 (Normal) Grade 2 (Small tear) Grade 3 (Large tear)
	Posterior labral cysts (Yes/No)
	SLAP lesion (Snyder I-IV)
	Capsule thickness (Grade I-III)
	Long head of biceps (Grade I-IV) Grade 0 (Normal tendon) Grade 1 (Tendinopathy) Grade 2 (Partial thickness tear) Grade 3 (Full thickness tear)
	GH Joint: anatomy and variants
Acromial spur (Yes/No)	
Bigliani classification Type 1 Type 2 Type 3	
Critical shoulder angle (degrees)	
Acromion index (scalar)	
Acromion slope (degrees)	
Lateral acromion angle (degrees)	
Sublabral recess (Yes/No)	
Sublabral hole (Yes/No)	
Bufort complex (Yes/No)	
Os acromiale (Yes/No)	
Bare area (Yes/No)	
Tubercle of Assaki (Yes/No)	

AC= acromioclavicular, ACJ= acromioclavicular joint, GH=glenohumeral, SA=subacromial, SSC=subscapularis, SSP=supraspinatus, ISP=infraspinatus, TM=teres minor, SLAP= superior labrum from anterior to posterior