

Supplementary Table 1. Pictures and grade descriptions of each MRI parameter

MRI finding	Image	Definition
Tangent sign		Positive if supraspinatus muscle below tangent line (black dashed line)
		Negative if supraspinatus muscle above tangent line (white dashed line)
Goutallier classification, supraspinatus (white dashed circle)		Grade 0: normal muscle
		Grade 1: some fatty streaks
		Grade 2: less than 50% fatty muscle atrophy
		Grade 3: 50% fatty muscle atrophy
		Grade 4: greater than 50% fatty muscle atrophy
Goutallier classification, infraspinatus (white dashed circle)		Grade 0: normal muscle
		Grade 1: some fatty streaks
		Grade 2: less than 50% fatty muscle atrophy
		Grade 3: 50% fatty muscle atrophy
		Grade 4: greater than 50% fatty muscle atrophy
Patte classification		Stage 1: proximal stump (white arrow) near the bony insertion
		Stage 2: proximal stump (white arrow) is at the level of the humeral head
		Stage 3: proximal stump (white arrow) at the level of glenoid or more proximal