

Additional file 8: Relationship between MRA findings and positive anaesthetic responses to glenohumeral joint diagnostic block.

Pathology identified on MRA	GHJ injection n=73 (PAR n=12)		OR (95% CI)	Fishers test (p-value)
	% with PAR when pathology present	% with PAR when pathology absent		
Acromioclavicular joint pathology	20	11	2.03 (0.50, 8.23)	0.516
arthropathy/degenerative changes	14	19	0.72 (0.21, 2.49)	0.751
osteolysis os acromiale	40	15	3.93 (0.58, 26.58)	0.187
Glenohumeral joint pathology	14	21	0.59 (0.17, 2.05)	0.524
degenerative changes	0	18	†	0.591
labral tear	12	21	0.53 (0.15, 1.96)	0.360
paralabral cyst	22	16	1.57 (0.28, 8.69)	0.636
rotator interval pathology	15	21	0.59 (0.17, 2.06)	0.574
synovitis- inferior recess	22	16	1.54 (0.28, 8.53)	0.639
synovitis– rotator interval	14	18	0.69 (0.19, 2.55)	0.752
Rotator cuff - any pathology	11	27	0.34 (0.10, 1.21)	0.101
any tear	9	23	0.33 (0.08, 1.35)	0.124
tendinosis	9	20	0.42 (0.08, 2.10)	0.326
Suprapinatus pathology	12	22	0.52 (0.15, 1.81)	0.345
tendinosis	11	18	0.58 (0.11, 2.91)	0.718
tear	11	20	0.49 (0.12, 2.00)	0.350
intrasubstance	0	19	0.81 (0.72, 0.91)	0.198
partial thickness – bursal surface	0	18	0.83 (0.74, 0.92)	0.583
partial thickness – articular surface	22	16	1.57 (0.28, 8.69)	0.636
full thickness	25	16	1.79 (0.17, 18.80)	0.521
Infraspinatus pathology	0	19	0.82 (0.72, 0.91)	0.198
tendinosis	0	17	0.83 (0.75, 0.92)	1.000
tear	0	18	0.82 (0.74, 0.92)	0.581
intrasubstance tear	0	17	0.83 (0.75, 0.92)	1.000
partial thickness	0	17	0.83 (0.75, 0.92)	1.000
full thickness		16	†	†
Subscapularis Pathology	0	19	0.82 (0.73, 0.92)	0.339
tendinosis	0	17	0.83 (0.75, 0.92)	1.000
tear	0	18	0.83 (0.74, 0.92)	0.583
intrasubstance	0	17	0.83 (0.75, 0.92)	1.000
partial thickness		16	†	†
full thickness	0	17	0.84 (0.76, 0.93)	1.000
Long head of biceps tendon				0.583
tendinosis	0	17	0.83 (0.75, 0.92)	1.000
tear or rupture	0	17	0.83 (0.75, 0.92)	1.000
Subacromial bursa				0.725
bursal thickening	20	15	1.47 (0.27, 8.08)	0.648
bursitis	15	20	0.71 (0.19, 2.69)	0.725
contrast seen in bursa on MRI	33	15	2.90 (0.47, 17.99)	0.254

GHJ, glenohumeral joint; PAR, positive anaesthetic response ($\geq 80\%$ post-injection pain intensity reduction); MRA, magnetic resonance arthrogram; MRI, magnetic resonance imaging.

† no cases in which pathology was identified- association could not be calculated.

**significant at $p < 0.05$

*significant at $p < 0.10$