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Appendix Table 1. Proximal Humerus Fracture ICD-9 and ICD-10 Diagnosis Codes.

Category	Code	Description
Proximal Humerus Fracture	ICD-10-D-S42201A	Unspecified fracture of upper end of right humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42201D	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42201K	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42201P	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with malunion
Proximal Humerus Fracture	ICD-10-D-S42201S	Unspecified fracture of upper end of right humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42202A	Unspecified fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42202D	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42202K	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42202S	Unspecified fracture of upper end of left humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42291A	Other displaced fracture of upper end of right humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42291D	Other displaced fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42291S	Other displaced fracture of upper end of right humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42292A	Other displaced fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42292D	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42292K	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42292S	Other displaced fracture of upper end of left humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42294A	Other nondisplaced fracture of upper end of right humerus initial encounter for closed fracture

Proximal Humerus Fracture	ICD-10-D-S42294D	Other nondisplaced fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42295A	Other nondisplaced fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42295D	Other nondisplaced fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-9-D-81200	Closed fracture of unspecified part of upper end of humerus
Proximal Humerus Fracture	ICD-9-D-81201	Closed fracture of surgical neck of humerus
Proximal Humerus Fracture	ICD-9-D-81209	Other closed fracture of upper end of humerus
Proximal Humerus Fracture	ICD-10-D-S42201A	Unspecified fracture of upper end of right humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42201D	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42201K	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42201P	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with malunion
Proximal Humerus Fracture	ICD-10-D-S42201S	Unspecified fracture of upper end of right humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42202A	Unspecified fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42202D	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42202K	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42202S	Unspecified fracture of upper end of left humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42291A	Other displaced fracture of upper end of right humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42291D	Other displaced fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42291S	Other displaced fracture of upper end of right humerus sequela
Proximal Humerus Fracture	ICD-10-D-S42292A	Other displaced fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42292D	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42292K	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Proximal Humerus Fracture	ICD-10-D-S42292S	Other displaced fracture of upper end of left humerus sequela

Proximal Humerus Fracture	ICD-10-D-S42294A	Other nondisplaced fracture of upper end of right humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42294D	Other nondisplaced fracture of upper end of right humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-10-D-S42295A	Other nondisplaced fracture of upper end of left humerus initial encounter for closed fracture
Proximal Humerus Fracture	ICD-10-D-S42295D	Other nondisplaced fracture of upper end of left humerus subsequent encounter for fracture with routine healing
Proximal Humerus Fracture	ICD-9-D-81200	Closed fracture of unspecified part of upper end of humerus
Proximal Humerus Fracture	ICD-9-D-81201	Closed fracture of surgical neck of humerus
Proximal Humerus Fracture	ICD-9-D-81209	Other closed fracture of upper end of humerus

Appendix Table 2. Hemiarthroplasty (HA), Open Reduction Internal Fixation (ORIF), and Reverse Shoulder Arthroplasty Codes (RSA) CPT, ICD-9, and ICD-10 Codes.

Category	Code	Description
Hemiarthroplasty	CPT-23470	Arthroplasty, glenohumeral joint; hemiarthroplasty
Hemiarthroplasty	ICD-10-P-0RRJ0J6	Replacement of Right Shoulder Joint with Synthetic Substitute Humeral Surface Open Approach
Hemiarthroplasty	ICD-10-P-0RRJ0J7	Replacement of Right Shoulder Joint with Synthetic Substitute Glenoid Surface Open Approach
Hemiarthroplasty	ICD-10-P-0RRK0J6	Replacement of Left Shoulder Joint with Synthetic Substitute Humeral Surface Open Approach
Hemiarthroplasty	ICD-10-P-0RRK0J7	Replacement of Left Shoulder Joint with Synthetic Substitute Glenoid Surface Open Approach
Hemiarthroplasty	ICD-9-P-8181	Partial shoulder replacement
ORIF	CPT-23615	Open treatment of proximal humeral (surgical or anatomical neck) fracture with or without internal or external fixation with or without repair of tuberosity(s);
ORIF	ICD-10-P-0PHC04Z	Insertion of Internal Fixation Device into Right Humeral Head Open Approach
ORIF	ICD-10-P-0PHD04Z	Insertion of Internal Fixation Device into Left Humeral Head Open Approach
ORIF	ICD-9-P-7931	Open reduction of fracture with internal fixation humerus
Reverse Total Shoulder Arthroplasty	CPT-23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (eg, total shoulder))
Reverse Total Shoulder Arthroplasty	ICD-10-P-0RRJ00Z	Replacement of Right Shoulder Joint with Reverse Ball and Socket Synthetic Substitute Open Approach
Reverse Total Shoulder Arthroplasty	ICD-10-P-0RRK00Z	Replacement of Left Shoulder Joint with Reverse Ball and Socket Synthetic Substitute Open Approach
Reverse Total Shoulder Arthroplasty	ICD-9-P-8188	Reverse total shoulder replacement

Appendix Table 3. ORIF and RSA ICD-10 Diagnostic Complication Codes. ORIF complications included fracture, hematoma, infection and drainage, instability, malunion, mechanical implant failure, nerve, nonunion, osteonecrosis, rotator cuff tear, and stiffness. RSA complications included dislocation, fracture, hematoma, infection and drainage, instability, loosening, mechanical implant failure, nerve, and stiffness.

Category	Code	Description
Osteonecrosis	ICD-10-D-M87211	Osteonecrosis due to previous trauma right shoulder
Osteonecrosis	ICD-10-D-M87212	Osteonecrosis due to previous trauma left shoulder
Osteonecrosis	ICD-10-D-M87221	Osteonecrosis due to previous trauma right humerus
Osteonecrosis	ICD-10-D-M87222	Osteonecrosis due to previous trauma left humerus
Osteonecrosis	ICD-10-D-M87311	Other secondary osteonecrosis right shoulder
Osteonecrosis	ICD-10-D-M87312	Other secondary osteonecrosis left shoulder
Osteonecrosis	ICD-10-D-M87321	Other secondary osteonecrosis right humerus
Osteonecrosis	ICD-10-D-M87322	Other secondary osteonecrosis left humerus
Osteonecrosis	ICD-10-D-M87811	Other osteonecrosis right shoulder
Osteonecrosis	ICD-10-D-M87812	Other osteonecrosis left shoulder
Osteonecrosis	ICD-10-D-M87821	Other osteonecrosis right humerus
Osteonecrosis	ICD-10-D-M87822	Other osteonecrosis left humerus
Nonunion	ICD-10-D-S42201K	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42202K	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42211K	Unspecified displaced fracture of surgical neck of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42212K	Unspecified displaced fracture of surgical neck of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42221K	2-part displaced fracture of surgical neck of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42222K	2-part displaced fracture of surgical neck of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42224K	2-part nondisplaced fracture of surgical neck of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42225K	2-part nondisplaced fracture of surgical neck of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42231K	3-part fracture of surgical neck of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42232K	3-part fracture of surgical neck of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42241K	4-part fracture of surgical neck of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42242K	4-part fracture of surgical neck of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42251K	Displaced fracture of greater tuberosity of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42252K	Displaced fracture of greater tuberosity of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42254K	Nondisplaced fracture of greater tuberosity of right humerus subsequent encounter for fracture with nonunion

Nonunion	ICD-10-D-S42261K	Displaced fracture of lesser tuberosity of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42262K	Displaced fracture of lesser tuberosity of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42291K	Other displaced fracture of upper end of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42292K	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42294K	Other nondisplaced fracture of upper end of right humerus subsequent encounter for fracture with nonunion
Nonunion	ICD-10-D-S42295K	Other nondisplaced fracture of upper end of left humerus subsequent encounter for fracture with nonunion
Malunion	ICD-10-D-S42201P	Unspecified fracture of upper end of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42202P	Unspecified fracture of upper end of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42221P	2-part displaced fracture of surgical neck of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42222P	2-part displaced fracture of surgical neck of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42231P	3-part fracture of surgical neck of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42232P	3-part fracture of surgical neck of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42241P	4-part fracture of surgical neck of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42242P	4-part fracture of surgical neck of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42251P	Displaced fracture of greater tuberosity of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42254P	Nondisplaced fracture of greater tuberosity of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42255P	Nondisplaced fracture of greater tuberosity of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42291P	Other displaced fracture of upper end of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42292P	Other displaced fracture of upper end of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42294P	Other nondisplaced fracture of upper end of right humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42295P	Other nondisplaced fracture of upper end of left humerus subsequent encounter for fracture with malunion
Malunion	ICD-10-D-S42412P	Displaced simple supracondylar fracture without intercondylar fracture of left humerus subsequent encounter for fracture with malunion
Mechanical Implant Failure	ICD-10-D-T84190A	Other mechanical complication of internal fixation device of right humerus initial encounter
Mechanical Implant Failure	ICD-10-D-T84190D	Other mechanical complication of internal fixation device of right humerus subsequent encounter
Mechanical Implant Failure	ICD-10-D-T84190S	Other mechanical complication of internal fixation device of right humerus sequela

Mechanical Implant Failure	ICD-10-D-T84191A	Other mechanical complication of internal fixation device of left humerus initial encounter
Mechanical Implant Failure	ICD-10-D-T84191D	Other mechanical complication of internal fixation device of left humerus subsequent encounter
Mechanical Implant Failure	ICD-10-D-T84191S	Other mechanical complication of internal fixation device of left humerus sequela
Rotator Cuff Tear	ICD-10-D-M75101	Unspecified rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75102	Unspecified rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75111	Incomplete rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75112	Incomplete rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75121	Complete rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75122	Complete rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-S43394S	Dislocation of other parts of right shoulder girdle sequela
Rotator Cuff Tear	ICD-10-D-S43421A	Sprain of right rotator cuff capsule initial encounter
Rotator Cuff Tear	ICD-10-D-S43421D	Sprain of right rotator cuff capsule subsequent encounter
Rotator Cuff Tear	ICD-10-D-S43421S	Sprain of right rotator cuff capsule sequela
Rotator Cuff Tear	ICD-10-D-S43422A	Sprain of left rotator cuff capsule initial encounter
Rotator Cuff Tear	ICD-10-D-S43422D	Sprain of left rotator cuff capsule subsequent encounter
Rotator Cuff Tear	ICD-10-D-S43422S	Sprain of left rotator cuff capsule sequela
Rotator Cuff Tear	ICD-10-D-S46001A	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46001D	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46001S	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46002A	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46002D	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46002S	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46011A	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46011D	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46011S	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46012A	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46012D	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46012S	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46021A	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter

Rotator Cuff Tear	ICD-10-D-S46021D	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46021S	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46022A	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46022D	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46022S	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46091A	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46091D	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46091S	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46092A	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46092D	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46092S	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-M75101	Unspecified rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75102	Unspecified rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75111	Incomplete rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75112	Incomplete rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75121	Complete rotator cuff tear or rupture of right shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-M75122	Complete rotator cuff tear or rupture of left shoulder not specified as traumatic
Rotator Cuff Tear	ICD-10-D-S43394S	Dislocation of other parts of right shoulder girdle sequela
Rotator Cuff Tear	ICD-10-D-S43421A	Sprain of right rotator cuff capsule initial encounter
Rotator Cuff Tear	ICD-10-D-S43421D	Sprain of right rotator cuff capsule subsequent encounter
Rotator Cuff Tear	ICD-10-D-S43421S	Sprain of right rotator cuff capsule sequela
Rotator Cuff Tear	ICD-10-D-S43422A	Sprain of left rotator cuff capsule initial encounter
Rotator Cuff Tear	ICD-10-D-S43422D	Sprain of left rotator cuff capsule subsequent encounter
Rotator Cuff Tear	ICD-10-D-S43422S	Sprain of left rotator cuff capsule sequela
Rotator Cuff Tear	ICD-10-D-S46001A	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46001D	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46001S	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46002A	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46002D	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter

Rotator Cuff Tear	ICD-10-D-S46002S	Unspecified injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46011A	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46011D	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46011S	Strain of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46012A	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46012D	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46012S	Strain of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46021A	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46021D	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46021S	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46022A	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46022D	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46022S	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46091A	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46091D	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46091S	Other injury of muscle(s) and tendon(s) of the rotator cuff of right shoulder sequela
Rotator Cuff Tear	ICD-10-D-S46092A	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder initial encounter
Rotator Cuff Tear	ICD-10-D-S46092D	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder subsequent encounter
Rotator Cuff Tear	ICD-10-D-S46092S	Other injury of muscle(s) and tendon(s) of the rotator cuff of left shoulder sequela
Fracture	ICD-10-D-M96621	Fracture of humerus following insertion of orthopedic implant joint prosthesis or bone plate right arm
Fracture	ICD-10-D-M96622	Fracture of humerus following insertion of orthopedic implant joint prosthesis or bone plate left arm
Fracture	ICD-10-D-M9731XA	Periprosthetic fracture around internal prosthetic right shoulder joint initial encounter
Fracture	ICD-10-D-M9731XD	Periprosthetic fracture around internal prosthetic right shoulder joint subsequent encounter
Fracture	ICD-10-D-M9731XS	Periprosthetic fracture around internal prosthetic right shoulder joint sequela
Fracture	ICD-10-D-M9732XA	Periprosthetic fracture around internal prosthetic left shoulder joint initial encounter

Fracture	ICD-10-D-M9732XD	Periprosthetic fracture around internal prosthetic left shoulder joint subsequent encounter
Fracture	ICD-10-D-M9732XS	Periprosthetic fracture around internal prosthetic left shoulder joint sequela
Fracture	ICD-10-D-M96621	Fracture of humerus following insertion of orthopedic implant joint prosthesis or bone plate right arm
Fracture	ICD-10-D-M96622	Fracture of humerus following insertion of orthopedic implant joint prosthesis or bone plate left arm
Fracture	ICD-10-D-M9731XA	Periprosthetic fracture around internal prosthetic right shoulder joint initial encounter
Fracture	ICD-10-D-M9731XD	Periprosthetic fracture around internal prosthetic right shoulder joint subsequent encounter
Fracture	ICD-10-D-M9731XS	Periprosthetic fracture around internal prosthetic right shoulder joint sequela
Fracture	ICD-10-D-M9732XA	Periprosthetic fracture around internal prosthetic left shoulder joint initial encounter
Fracture	ICD-10-D-M9732XD	Periprosthetic fracture around internal prosthetic left shoulder joint subsequent encounter
Fracture	ICD-10-D-M9732XS	Periprosthetic fracture around internal prosthetic left shoulder joint sequela
Infection	ICD-10-D-M01X11	Direct infection of right shoulder in infectious and parasitic diseases classified elsewhere
Infection	ICD-10-D-M01X12	Direct infection of left shoulder in infectious and parasitic diseases classified elsewhere
Infection	ICD-10-D-M01X19	Direct infection of unspecified shoulder in infectious and parasitic diseases classified elsewhere
Infection	ICD-10-D-S41001A	Unspecified open wound of right shoulder initial encounter
Infection	ICD-10-D-S41001D	Unspecified open wound of right shoulder subsequent encounter
Infection	ICD-10-D-S41001S	Unspecified open wound of right shoulder sequela
Infection	ICD-10-D-S41002A	Unspecified open wound of left shoulder initial encounter
Infection	ICD-10-D-S41002D	Unspecified open wound of left shoulder subsequent encounter
Infection	ICD-10-D-S41002S	Unspecified open wound of left shoulder sequela
Infection	ICD-10-D-T84610A	Infection and inflammatory reaction due to internal fixation device of right humerus initial encounter
Infection	ICD-10-D-T84610D	Infection and inflammatory reaction due to internal fixation device of right humerus subsequent encounter
Infection	ICD-10-D-T84610S	Infection and inflammatory reaction due to internal fixation device of right humerus sequela
Infection	ICD-10-D-T84611A	Infection and inflammatory reaction due to internal fixation device of left humerus initial encounter
Infection	ICD-10-D-T84611D	Infection and inflammatory reaction due to internal fixation device of left humerus subsequent encounter
Infection	ICD-10-D-T84611S	Infection and inflammatory reaction due to internal fixation device of left humerus sequela
Hematoma	ICD-10-D-L7632	Postprocedural hematoma of skin and subcutaneous tissue following other procedure
Hematoma	ICD-10-D-M96840	Postprocedural hematoma of a musculoskeletal structure following a musculoskeletal system procedure
Hematoma	ICD-10-D-M96841	Postprocedural hematoma of a musculoskeletal structure following other procedure
Stiffness	ICD-10-D-M25611	Stiffness of right shoulder not elsewhere classified

Stiffness	ICD-10-D-M25612	Stiffness of left shoulder not elsewhere classified
Stiffness	ICD-10-D-M25619	Stiffness of unspecified shoulder not elsewhere classified
Nerve Injury	ICD-10-D-S4450XA	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S4450XD	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S4450XS	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4451XA	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm initial encounter
Nerve Injury	ICD-10-D-S4451XD	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S4451XS	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm sequela
Nerve Injury	ICD-10-D-S4452XA	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S4452XD	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S4452XS	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm sequela
Nerve Injury	ICD-10-D-S448X1A	Injury of other nerves at shoulder and upper arm level right arm initial encounter
Nerve Injury	ICD-10-D-S448X1D	Injury of other nerves at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S448X1S	Injury of other nerves at shoulder and upper arm level right arm sequela
Nerve Injury	ICD-10-D-S448X2A	Injury of other nerves at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S448X2D	Injury of other nerves at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S448X2S	Injury of other nerves at shoulder and upper arm level left arm sequela
Nerve Injury	ICD-10-D-S448X9A	Injury of other nerves at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S448X9D	Injury of other nerves at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S448X9S	Injury of other nerves at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4490XA	Injury of unspecified nerve at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S4490XD	Injury of unspecified nerve at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S4490XS	Injury of unspecified nerve at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4491XA	Injury of unspecified nerve at shoulder and upper arm level right arm initial encounter
Nerve Injury	ICD-10-D-S4491XD	Injury of unspecified nerve at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S4491XS	Injury of unspecified nerve at shoulder and upper arm level right arm sequela

Nerve Injury	ICD-10-D-S4492XA	Injury of unspecified nerve at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S4492XD	Injury of unspecified nerve at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S4492XS	Injury of unspecified nerve at shoulder and upper arm level left arm sequela
Nerve Injury	ICD-10-D-S4450XA	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S4450XD	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S4450XS	Injury of cutaneous sensory nerve at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4451XA	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm initial encounter
Nerve Injury	ICD-10-D-S4451XD	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S4451XS	Injury of cutaneous sensory nerve at shoulder and upper arm level right arm sequela
Nerve Injury	ICD-10-D-S4452XA	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S4452XD	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S4452XS	Injury of cutaneous sensory nerve at shoulder and upper arm level left arm sequela
Nerve Injury	ICD-10-D-S448X1A	Injury of other nerves at shoulder and upper arm level right arm initial encounter
Nerve Injury	ICD-10-D-S448X1D	Injury of other nerves at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S448X1S	Injury of other nerves at shoulder and upper arm level right arm sequela
Nerve Injury	ICD-10-D-S448X2A	Injury of other nerves at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S448X2D	Injury of other nerves at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S448X2S	Injury of other nerves at shoulder and upper arm level left arm sequela
Nerve Injury	ICD-10-D-S448X9A	Injury of other nerves at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S448X9D	Injury of other nerves at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S448X9S	Injury of other nerves at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4490XA	Injury of unspecified nerve at shoulder and upper arm level unspecified arm initial encounter
Nerve Injury	ICD-10-D-S4490XD	Injury of unspecified nerve at shoulder and upper arm level unspecified arm subsequent encounter
Nerve Injury	ICD-10-D-S4490XS	Injury of unspecified nerve at shoulder and upper arm level unspecified arm sequela
Nerve Injury	ICD-10-D-S4491XA	Injury of unspecified nerve at shoulder and upper arm level right arm initial encounter

Nerve Injury	ICD-10-D-S4491XD	Injury of unspecified nerve at shoulder and upper arm level right arm subsequent encounter
Nerve Injury	ICD-10-D-S4491XS	Injury of unspecified nerve at shoulder and upper arm level right arm sequela
Nerve Injury	ICD-10-D-S4492XA	Injury of unspecified nerve at shoulder and upper arm level left arm initial encounter
Nerve Injury	ICD-10-D-S4492XD	Injury of unspecified nerve at shoulder and upper arm level left arm subsequent encounter
Nerve Injury	ICD-10-D-S4492XS	Injury of unspecified nerve at shoulder and upper arm level left arm sequela
Instability	ICD-10-D-M25311	Other instability right shoulder
Instability	ICD-10-D-M25312	Other instability left shoulder
Dislocation	ICD-10-D-M24311	Pathological dislocation of right shoulder not elsewhere classified
Dislocation	ICD-10-D-M24312	Pathological dislocation of left shoulder not elsewhere classified
Dislocation	ICD-10-D-M24319	Pathological dislocation of unspecified shoulder not elsewhere classified
Dislocation	ICD-10-D-M24411	Recurrent dislocation right shoulder
Dislocation	ICD-10-D-M24412	Recurrent dislocation left shoulder
Dislocation	ICD-10-D-M24419	Recurrent dislocation unspecified shoulder
Dislocation	ICD-10-D-S43001A	Unspecified subluxation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43001D	Unspecified subluxation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43001S	Unspecified subluxation of right shoulder joint sequela
Dislocation	ICD-10-D-S43002A	Unspecified subluxation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43002D	Unspecified subluxation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43002S	Unspecified subluxation of left shoulder joint sequela
Dislocation	ICD-10-D-S43003A	Unspecified subluxation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43003D	Unspecified subluxation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43003S	Unspecified subluxation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43004A	Unspecified dislocation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43004D	Unspecified dislocation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43004S	Unspecified dislocation of right shoulder joint sequela
Dislocation	ICD-10-D-S43005A	Unspecified dislocation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43005D	Unspecified dislocation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43005S	Unspecified dislocation of left shoulder joint sequela
Dislocation	ICD-10-D-S43006A	Unspecified dislocation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43006D	Unspecified dislocation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43006S	Unspecified dislocation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43081A	Other subluxation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43081D	Other subluxation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43081S	Other subluxation of right shoulder joint sequela
Dislocation	ICD-10-D-S43082A	Other subluxation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43082D	Other subluxation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43082S	Other subluxation of left shoulder joint sequela
Dislocation	ICD-10-D-S43083A	Other subluxation of unspecified shoulder joint initial encounter

Dislocation	ICD-10-D-S43083D	Other subluxation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43083S	Other subluxation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43084A	Other dislocation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43084D	Other dislocation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43084S	Other dislocation of right shoulder joint sequela
Dislocation	ICD-10-D-S43085A	Other dislocation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43085D	Other dislocation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43085S	Other dislocation of left shoulder joint sequela
Dislocation	ICD-10-D-S43086A	Other dislocation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43086D	Other dislocation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43301A	Subluxation of unspecified parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43301S	Subluxation of unspecified parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43302A	Subluxation of unspecified parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43302D	Subluxation of unspecified parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43303D	Subluxation of unspecified parts of unspecified shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43304A	Dislocation of unspecified parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43304D	Dislocation of unspecified parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43304S	Dislocation of unspecified parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43305A	Dislocation of unspecified parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43305D	Dislocation of unspecified parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43306A	Dislocation of unspecified parts of unspecified shoulder girdle initial encounter
Dislocation	ICD-10-D-S43306D	Dislocation of unspecified parts of unspecified shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43306S	Dislocation of unspecified parts of unspecified shoulder girdle sequela
Dislocation	ICD-10-D-S43391A	Subluxation of other parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43391D	Subluxation of other parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43391S	Subluxation of other parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43392A	Subluxation of other parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43392D	Subluxation of other parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43394A	Dislocation of other parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43394D	Dislocation of other parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43395A	Dislocation of other parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43395D	Dislocation of other parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43395S	Dislocation of other parts of left shoulder girdle sequela
Dislocation	ICD-10-D-M24311	Pathological dislocation of right shoulder not elsewhere classified

Dislocation	ICD-10-D-M24312	Pathological dislocation of left shoulder not elsewhere classified
Dislocation	ICD-10-D-M24319	Pathological dislocation of unspecified shoulder not elsewhere classified
Dislocation	ICD-10-D-M24411	Recurrent dislocation right shoulder
Dislocation	ICD-10-D-M24412	Recurrent dislocation left shoulder
Dislocation	ICD-10-D-M24419	Recurrent dislocation unspecified shoulder
Dislocation	ICD-10-D-S43001A	Unspecified subluxation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43001D	Unspecified subluxation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43001S	Unspecified subluxation of right shoulder joint sequela
Dislocation	ICD-10-D-S43002A	Unspecified subluxation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43002D	Unspecified subluxation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43002S	Unspecified subluxation of left shoulder joint sequela
Dislocation	ICD-10-D-S43003A	Unspecified subluxation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43003D	Unspecified subluxation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43003S	Unspecified subluxation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43004A	Unspecified dislocation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43004D	Unspecified dislocation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43004S	Unspecified dislocation of right shoulder joint sequela
Dislocation	ICD-10-D-S43005A	Unspecified dislocation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43005D	Unspecified dislocation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43005S	Unspecified dislocation of left shoulder joint sequela
Dislocation	ICD-10-D-S43006A	Unspecified dislocation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43006D	Unspecified dislocation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43006S	Unspecified dislocation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43081A	Other subluxation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43081D	Other subluxation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43081S	Other subluxation of right shoulder joint sequela
Dislocation	ICD-10-D-S43082A	Other subluxation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43082D	Other subluxation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43082S	Other subluxation of left shoulder joint sequela
Dislocation	ICD-10-D-S43083A	Other subluxation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43083D	Other subluxation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43083S	Other subluxation of unspecified shoulder joint sequela
Dislocation	ICD-10-D-S43084A	Other dislocation of right shoulder joint initial encounter
Dislocation	ICD-10-D-S43084D	Other dislocation of right shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43084S	Other dislocation of right shoulder joint sequela
Dislocation	ICD-10-D-S43085A	Other dislocation of left shoulder joint initial encounter
Dislocation	ICD-10-D-S43085D	Other dislocation of left shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43085S	Other dislocation of left shoulder joint sequela
Dislocation	ICD-10-D-S43086A	Other dislocation of unspecified shoulder joint initial encounter
Dislocation	ICD-10-D-S43086D	Other dislocation of unspecified shoulder joint subsequent encounter
Dislocation	ICD-10-D-S43301A	Subluxation of unspecified parts of right shoulder girdle initial encounter

Dislocation	ICD-10-D-S43301S	Subluxation of unspecified parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43302A	Subluxation of unspecified parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43302D	Subluxation of unspecified parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43303D	Subluxation of unspecified parts of unspecified shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43304A	Dislocation of unspecified parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43304D	Dislocation of unspecified parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43304S	Dislocation of unspecified parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43305A	Dislocation of unspecified parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43305D	Dislocation of unspecified parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43306A	Dislocation of unspecified parts of unspecified shoulder girdle initial encounter
Dislocation	ICD-10-D-S43306D	Dislocation of unspecified parts of unspecified shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43306S	Dislocation of unspecified parts of unspecified shoulder girdle sequela
Dislocation	ICD-10-D-S43391A	Subluxation of other parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43391D	Subluxation of other parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43391S	Subluxation of other parts of right shoulder girdle sequela
Dislocation	ICD-10-D-S43392A	Subluxation of other parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43392D	Subluxation of other parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43394A	Dislocation of other parts of right shoulder girdle initial encounter
Dislocation	ICD-10-D-S43394D	Dislocation of other parts of right shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43395A	Dislocation of other parts of left shoulder girdle initial encounter
Dislocation	ICD-10-D-S43395D	Dislocation of other parts of left shoulder girdle subsequent encounter
Dislocation	ICD-10-D-S43395S	Dislocation of other parts of left shoulder girdle sequela
Loosening	ICD-10-D-M89511	Osteolysis right shoulder
Loosening	ICD-10-D-M89512	Osteolysis left shoulder
Loosening	ICD-10-D-M89519	Osteolysis unspecified shoulder

Appendix Table 4. ORIF and RSA ICD-10 and CPT Revision Procedure Codes.

Category	Code	Description
Irrigation and Debridement	CPT-11010	Debridement including removal of foreign material associated with open fracture(s) and/or dislocation(s); skin and subcutaneous tissues
Irrigation and Debridement	CPT-11011	Debridement including removal of foreign material associated with open fracture(s) and/or dislocation(s); skin subcutaneous tissue muscle fascia and muscle
Irrigation and Debridement	CPT-21110	Application of interdental fixation device for conditions other than fracture or dislocation includes removal
Irrigation and Debridement	CPT-23030	Incision and drainage shoulder area; deep abscess or hematoma
Irrigation and Debridement	CPT-23031	Incision and drainage shoulder area; infected bursa
Irrigation and Debridement	ICD-10-P-0K9600Z	Drainage of Left Shoulder Muscle with Drainage Device Open Approach
Irrigation and Debridement	ICD-10-P-0K960ZX	Drainage of Left Shoulder Muscle Open Approach Diagnostic
Irrigation and Debridement	ICD-10-P-0K960ZZ	Drainage of Left Shoulder Muscle Open Approach
Irrigation and Debridement	ICD-10-P-0M923ZZ	Drainage of Left Shoulder Bursa and Ligament Percutaneous Approach
Irrigation and Debridement	ICD-10-P-0R9K00Z	Drainage of Left Shoulder Joint with Drainage Device Open Approach
Irrigation and Debridement	ICD-10-P-0R9K0ZX	Drainage of Left Shoulder Joint Open Approach Diagnostic
Irrigation and Debridement	ICD-10-P-0R9K0ZZ	Drainage of Left Shoulder Joint Open Approach
Irrigation and Debridement	ICD-10-P-0R9K30Z	Drainage of Left Shoulder Joint with Drainage Device Percutaneous Approach
Irrigation and Debridement	ICD-10-P-0R9K3ZX	Drainage of Left Shoulder Joint Percutaneous Approach Diagnostic
Irrigation and Debridement	ICD-10-P-0R9K3ZZ	Drainage of Left Shoulder Joint Percutaneous Approach
Irrigation and Debridement	ICD-10-P-0R9K40Z	Drainage of Left Shoulder Joint with Drainage Device Percutaneous Endoscopic Approach
Irrigation and Debridement	ICD-10-P-0R9K4ZX	Drainage of Left Shoulder Joint Percutaneous Endoscopic Approach Diagnostic
Irrigation and Debridement	ICD-10-P-0R9K4ZZ	Drainage of Left Shoulder Joint Percutaneous Endoscopic Approach
Irrigation and Debridement	ICD-10-P-0X9300Z	Drainage of Left Shoulder Region with Drainage Device Open Approach
Irrigation and Debridement	ICD-10-P-0X930ZX	Drainage of Left Shoulder Region Open Approach Diagnostic

Irrigation and Debridement	ICD-10-P-0X930ZZ	Drainage of Left Shoulder Region Open Approach
Irrigation and Debridement	ICD-10-P-0X9330Z	Drainage of Left Shoulder Region with Drainage Device Percutaneous Approach
Irrigation and Debridement	ICD-10-P-0X933ZX	Drainage of Left Shoulder Region Percutaneous Approach Diagnostic
Irrigation and Debridement	CPT-11010	Debridement including removal of foreign material associated with open fracture(s) and/or dislocation(s); skin and subcutaneous tissues
Explant and Insertion of Spacer	ICD-10-P-0RHJ08Z	Insertion of Spacer into Right Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RHJ48Z	Insertion of Spacer into Right Shoulder Joint Percutaneous Endoscopic Approach
Explant and Insertion of Spacer	ICD-10-P-0RHK08Z	Insertion of Spacer into Left Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RPJ08Z	Removal of Spacer from Right Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RPJ0JZ	Removal of Synthetic Substitute from Right Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RPJ4JZ	Removal of Synthetic Substitute from Right Shoulder Joint Percutaneous Endoscopic Approach
Explant and Insertion of Spacer	ICD-10-P-0RPK08Z	Removal of Spacer from Left Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RPK0JZ	Removal of Synthetic Substitute from Left Shoulder Joint Open Approach
Explant and Insertion of Spacer	ICD-10-P-0RPK38Z	Removal of Spacer from Left Shoulder Joint Percutaneous Approach
Reduction of Dislocated Prosthesis	CPT-23660	Open treatment of acute shoulder dislocation
Reduction of Dislocated Prosthesis	CPT-23670	Open treatment of shoulder dislocation with fracture of greater humeral tuberosity with or without internal or external fixation
Reduction of Dislocated Prosthesis	CPT-23680	Open treatment of shoulder dislocation with surgical or anatomical neck fracture with or without internal or external fixation
Reduction of Dislocated Prosthesis	ICD-10-P-0RSJ04Z	Reposition Right Shoulder Joint with Internal Fixation Device Open Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSJ0ZZ	Reposition Right Shoulder Joint Open Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSJ34Z	Reposition Right Shoulder Joint with Internal Fixation Device Percutaneous Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSJXZZ	Reposition Right Shoulder Joint External Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSK04Z	Reposition Left Shoulder Joint with Internal Fixation Device Open Approach

Reduction of Dislocated Prosthesis	ICD-10-P-0RSK0ZZ	Reposition Left Shoulder Joint Open Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSK34Z	Reposition Left Shoulder Joint with Internal Fixation Device Percutaneous Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSKX4Z	Reposition Left Shoulder Joint with Internal Fixation Device External Approach
Reduction of Dislocated Prosthesis	ICD-10-P-0RSKXZZ	Reposition Left Shoulder Joint External Approach
Revision Arthroplasty	ICD-10-P-0RRJ00Z	Replacement of Right Shoulder Joint with Reverse Ball and Socket Synthetic Substitute Open Approach
Revision Arthroplasty	ICD-10-P-0RRJ0JZ	Replacement of Right Shoulder Joint with Synthetic Substitute Open Approach
Revision Arthroplasty	ICD-10-P-0RRK00Z	Replacement of Left Shoulder Joint with Reverse Ball and Socket Synthetic Substitute Open Approach
Revision Arthroplasty	ICD-10-P-0RWJ08Z	Revision of Spacer in Right Shoulder Joint Open Approach
Revision Arthroplasty	ICD-10-P-0RWJ0JZ	Revision of Synthetic Substitute in Right Shoulder Joint Open Approach
Revision Arthroplasty	ICD-10-P-0RWJ3JZ	Revision of Synthetic Substitute in Right Shoulder Joint Percutaneous Approach
Revision Arthroplasty	ICD-10-P-0RWJ4JZ	Revision of Synthetic Substitute in Right Shoulder Joint Percutaneous Endoscopic Approach
Revision Arthroplasty	ICD-10-P-0RWJXJZ	Revision of Synthetic Substitute in Right Shoulder Joint External Approach
Revision Arthroplasty	ICD-10-P-0RWK08Z	Revision of Spacer in Left Shoulder Joint Open Approach
Revision Arthroplasty	ICD-10-P-0RWK0JZ	Revision of Synthetic Substitute in Left Shoulder Joint Open Approach
Revision Arthroplasty	ICD-10-P-0RWK4JZ	Revision of Synthetic Substitute in Left Shoulder Joint Percutaneous Endoscopic Approach
Revision Arthroplasty	ICD-10-P-0RWKXJZ	Revision of Synthetic Substitute in Left Shoulder Joint External Approach
Rotator Cuff Repair	CPT-29827	Arthroscopy shoulder surgical; with rotator cuff repair
Rotator Cuff Repair	ICD-10-P-0K850ZZ	Division of Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KB50ZX	Excision of Right Shoulder Muscle Open Approach Diagnostic
Rotator Cuff Repair	ICD-10-P-0KB50ZZ	Excision of Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KB60ZX	Excision of Left Shoulder Muscle Open Approach Diagnostic
Rotator Cuff Repair	ICD-10-P-0KB60ZZ	Excision of Left Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KC50ZZ	Extirpation of Matter from Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KC60ZZ	Extirpation of Matter from Left Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KM50ZZ	Reattachment of Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KN50ZZ	Release Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KN60ZZ	Release Left Shoulder Muscle Open Approach

Rotator Cuff Repair	ICD-10-P-0KN63ZZ	Release Left Shoulder Muscle Percutaneous Approach
Rotator Cuff Repair	ICD-10-P-0KQ50ZZ	Repair Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KQ60ZZ	Repair Left Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KR50JZ	Replacement of Right Shoulder Muscle with Synthetic Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KS50ZZ	Reposition Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KS60ZZ	Reposition Left Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KT50ZZ	Resection of Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KU507Z	Supplement Right Shoulder Muscle with Autologous Tissue Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KU50KZ	Supplement Right Shoulder Muscle with Nonautologous Tissue Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KU607Z	Supplement Left Shoulder Muscle with Autologous Tissue Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KU60JZ	Supplement Left Shoulder Muscle with Synthetic Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KU60KZ	Supplement Left Shoulder Muscle with Nonautologous Tissue Substitute Open Approach
Rotator Cuff Repair	ICD-10-P-0KX50Z1	Transfer Right Shoulder Muscle with Subcutaneous Tissue Open Approach
Rotator Cuff Repair	ICD-10-P-0KX50ZZ	Transfer Right Shoulder Muscle Open Approach
Rotator Cuff Repair	ICD-10-P-0KX60Z2	Transfer Left Shoulder Muscle with Skin and Subcutaneous Tissue Open Approach
Rotator Cuff Repair	ICD-10-P-0KX60ZZ	Transfer Left Shoulder Muscle Open Approach
Removal of Hardware	CPT-20680	Removal of implant; deep (eg buried wire pin screw metal band nail rod or plate)
Removal of Hardware	ICD-10-P-0RPJ04Z	Removal of Internal Fixation Device from Right Shoulder Joint Open Approach
Removal of Hardware	ICD-10-P-0RPJ34Z	Removal of Internal Fixation Device from Right Shoulder Joint Percutaneous Approach
Removal of Hardware	ICD-10-P-0RPJ44Z	Removal of Internal Fixation Device from Right Shoulder Joint Percutaneous Endoscopic Approach
Removal of Hardware	ICD-10-P-0RPJX4Z	Removal of Internal Fixation Device from Right Shoulder Joint External Approach
Removal of Hardware	ICD-10-P-0RPK04Z	Removal of Internal Fixation Device from Left Shoulder Joint Open Approach
Removal of Hardware	ICD-10-P-0RPK44Z	Removal of Internal Fixation Device from Left Shoulder Joint Percutaneous Endoscopic Approach
Revision ORIF	CPT-23615	Open treatment of proximal humeral (surgical or anatomical neck) fracture with or without internal or external fixation with or without repair of tuberosity(s);
Revision ORIF	CPT-23616	Open treatment of proximal humeral (surgical or anatomical neck) fracture with or without internal or external fixation with or without repair of tuberosity(s); with proximal humeral prosthetic replacement

Revision ORIF	ICD-10-P-0PSC04Z	Reposition Right Humeral Head with Internal Fixation Device Open Approach
Revision ORIF	ICD-10-P-0PSC06Z	Reposition Right Humeral Head with Intramedullary Internal Fixation Device Open Approach
Revision ORIF	ICD-10-P-0PSD04Z	Reposition Left Humeral Head with Internal Fixation Device Open Approach
Revision ORIF	ICD-10-P-0PSD06Z	Reposition Left Humeral Head with Intramedullary Internal Fixation Device Open Approach
Revision ORIF	ICD-10-P-0PWC04Z	Revision of Internal Fixation Device in Right Humeral Head Open Approach
Revision ORIF	ICD-10-P-0PWD04Z	Revision of Internal Fixation Device in Left Humeral Head Open Approach
Manipulation Under Anesthesia	CPT-23700	Manipulation under anesthesia shoulder joint including application of fixation apparatus (dislocation excluded)
Arthroscopic Debridement	CPT-29822	Arthroscopy shoulder surgical; debridement limited
Arthroscopic Debridement	CPT-29823	Arthroscopy shoulder surgical; debridement extensive