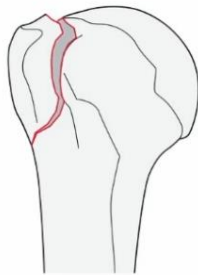


Humerus proximal end segment (11)

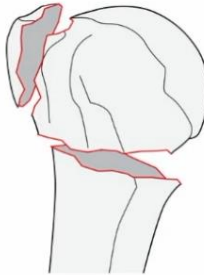
- Added Neer classification
- Defined C to greater extent

Types:

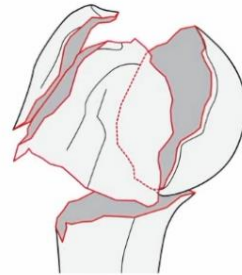
Humerus, proximal end segment,
extraarticular, unifocal, 2-part fracture
11A



Humerus, proximal end segment,
extraarticular, bifocal, 3-part fracture
11B



Humerus, proximal end segment,
articular or 4-part fracture
11C



Extraarticular—Type A: The fracture line may be metaphyseal or epiphyseal, but it always spares the articular surface although it may be intracapsular.

Partial articular—Type B: The fracture involves part of the articular surface while the remainder of the joint remains intact and is solidly connected to the supporting metaphysis and diaphysis.

Complete articular—Type C: There is a disruption of the articular surface and the articular surface is completely separated from the diaphysis.

Universal modifiers list

1 Nondisplaced	8 Articular cartilage injury*
2 Displaced	8a ICRS Grade 0
3 Impaction	8b ICRS Grade 1
3a Articular	8c ICRS Grade 2
3b Metaphyseal	8d ICRS Grade 3
4 No impaction	
5 Dislocation	8e ICRS Grade 4
5a Anterior (volar, palmar, plantar)	9 Poor bone quality
5b Posterior (dorsal)	10 Replantation
5c Medial (ulnar)	11 Amputation associated with a fracture
5d Lateral (radial)	12 Associated with a nonarthroplasty implant
5e Inferior (with hip is also obturator)	13 Spiral type fracture
5f Multidirectional	14 Bending type fracture
6 Subluxation/ligamentous instability	
6a Anterior (volar, palmar, plantar)	
6b Posterior (dorsal)	
6c Medial (ulnar)	
6d Lateral (radial)	
6e Inferior (with hip is also obturator)	
6f Multidirectional	
7 Diaphyseal extension	



Universal modifiers—example

- A 3-part bifocal proximal humerus fracture dislocation with displacement, anterior dislocation, and osteopenia = 11B1.1 [2,5a,9]



Qualifications—example

Humerus, proximal end segment, articular or 4-part fracture, valgus impacted 11C1.1

To indicate both tuberosities are fractured add qualification: **for both tuberosities = (p)**

Final code:

Humerus, proximal end segment, articular or 4-part fracture, valgus impacted and both tuberosities fractured = **11C1.1(p)**



Combining qualifications and universal modifiers—example

Humerus, proximal end segment, articular or 4-part fracture, valgus impacted and both tuberosities fractured 11C1.1(p)

To add anterior dislocation use the universal modifier:
with an anterior dislocation = [5a]

Final code:

Humerus, proximal end segment, articular or 4-part fracture, valgus impacted and both tuberosities fractured = **11C1.1(p)[5a]**

Sequential gaps in alphanumeric code

- Codes reviewed for usage and accuracy
- Some removed because they were better described using new standardized terminology or by using the universal modifiers
- This creates gaps in the layout of the compendium

Type: Humerus, proximal end segment, **articular or 4-part fracture** 11C

Group: Humerus, proximal end segment, articular or 4-part, **anatomical neck fracture** 11C1

Subgroups:
Valgus impacted fracture
11C1.1*



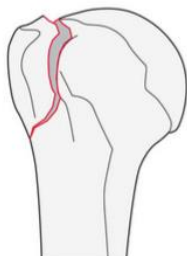
Isolated anatomical neck fracture
11C1.3



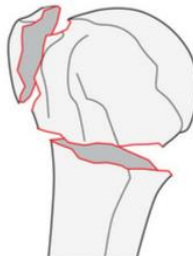
*Qualifications:
n **Greater tuberosity**
o Lesser tuberosity
p Both tuberosities

34

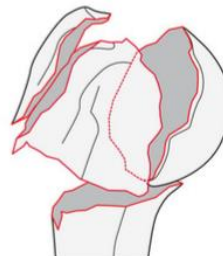
Types:
Humerus, proximal end segment,
extraarticular, unifocal, 2-part fracture
11A



Humerus, proximal end segment,
extraarticular, bifocal, 3-part fracture
11B



Humerus, proximal end segment,
articular or 4-part fracture
11C



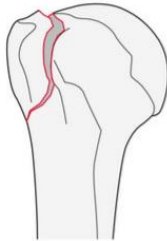
11A

Type: Humerus, proximal end segment, **extraarticular, unifocal, 2-part fracture** 11A

Group: Humerus, proximal end segment, extraarticular, unifocal, 2-part, **tuberosity fracture** 11A1

Subgroups:

Greater tuberosity fracture
11A1.1

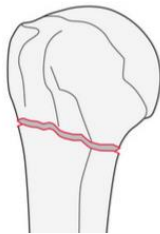


Lesser tuberosity fracture
11A1.2

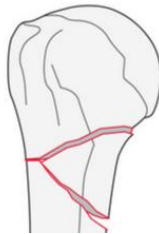


Group: Humerus, proximal end segment, extraarticular, unifocal, 2-part, **surgical neck fracture** 11A2

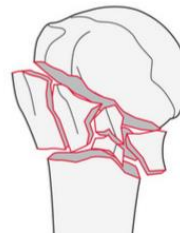
Subgroups:
Simple fracture
11A2.1



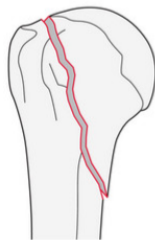
Wedge fracture
11A2.2



Multifragmentary fracture
11A2.3



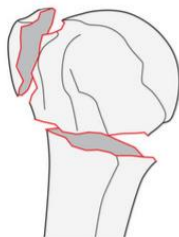
Group: Humerus, proximal end segment, unifocal, 2-part, **extraarticular vertical fracture** 11A3

**11B**

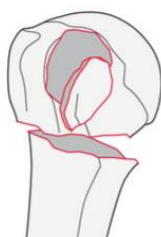
Type: Humerus, proximal end segment, **extraarticular, bifocal, 3-part fracture** 11B

Group: Humerus, proximal end segment, extraarticular, bifocal, 3-part, **surgical neck fracture** 11B1

Subgroups:
With greater tuberosity fracture
11B1.1*



With lesser tuberosity fracture
11B1.2*



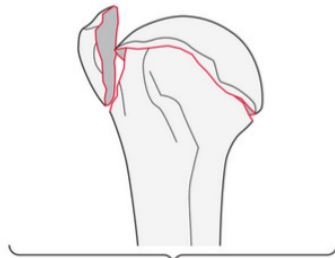
*Qualifications:
u Intact wedge
v Fragmentary wedge

11C

Type: Humerus, proximal end segment, **articular or 4-part fracture** 11C

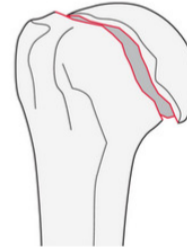
Group: Humerus, proximal end segment, articular or 4-part, **anatomical neck fracture** 11C1

Subgroups:
Valgus impacted fracture
 11C1.1*



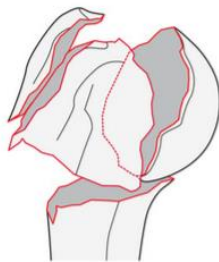
*Qualifications:
 n **Greater tuberosity**
 o Lesser tuberosity
 p Both tuberosities

Isolated anatomical neck fracture
 11C1.3



Group: Humerus, proximal end segment, articular or 4-part, **anatomical neck fracture associated with metaphyseal fracture** 11C3

Subgroups:
With a multifragmentary metaphyseal segment with intact articular surface
 11C3.1



With a multifragmentary metaphyseal segment with articular fracture
 11C3.2*



With a multifragmentary metaphyseal fracture, with diaphyseal extension and articular fracture
 11C3.3*



*Qualifications:
 x **Simple articular**
 y Multifragmentary articular