#### Welcome to Our Survey

This survey contains 54 randomized, short clinical vignettes describing a patient who is presenting with signs and symptoms of cuff tear arthropathy. Assumptions are listed at the top of each page.

Each vignette has the same 3 questions:1) Grade the radiographs according to Seebauer2) Grade the radiographs according to Hamada3) Select a treatment

**Primary Objectives:** 

-Determine the demographics, signs, symptoms, and radiographic features that impact clinical decision making

-Determine 1) the reliability of the Seebauer and Hamada grading systems 2) whether or not the grading systems correlate with clinical decision making

Thank you for your time!

# An active 30 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)

#### \* 1. Please grade the radiographs according to Seebauer

- ) Type 1A-Centered, Stable: minimal superior migration, C-A arch acetabularization and femoralization of humeral head
- **Type 1B-Centered, Medialized:** minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
- **Type 2A-Decentered, Limited Stable:** superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
- **Type 2B-Decentered, Unstable:** anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient

#### \* 2. Please grade the radiographs according to Hamada

- **Grade 1:** acromio-humeral interval (AHI) > 6mm
- Grade 2: acromio-humeral interval (AHI) 5mm or less
- **Grade 3:** grade 2 with acetabularization of acromion
- **Grade 4:** grade 3 with narrowing of gleno-humeral joint
- **Grade 5:** grade 4 with bony destruction and humeral head collapse

#### \* 3. Please select a treatment

- non-operative (includes medications, injections, physical therapy, or watchful waiting)
- ) arthroscopic treatment
- hemiarthroplasty
- reverse shoulder arthroplasty

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 4. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 5. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 6. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 3
An inactive 30 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 7. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 8. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 9. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 4
An active 30 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 10. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 11. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint Grade 5: grade 4 with bony destruction and humeral head collapse
* 12. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 13. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 14. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 15. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 6
An inactive 30 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 16. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 17. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 18. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 7
An active 30 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 19. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral hea
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 20. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 21. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 22. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 23. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 24. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 9
An inactive 30 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 25. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 26. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 27. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 10
An active 45 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)
* 28. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 29. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 30. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 31. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 32. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 33. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 12
An inactive 45 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 34. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 35. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 36. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 13
An active 45 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 37. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 38. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 39. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 40. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 41. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 42. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 15
An inactive 45 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 43. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 44. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 45. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 16
An active 45 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 46. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 47. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 48. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 49. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 50. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 51. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 18
An inactive 45 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 52. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 53. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 54. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 19
An active 65 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)
* 55. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 56. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 57. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 58. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 59. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 60. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 21
An inactive 65 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 61. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 62. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 63. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 22
An active 65 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 64. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 65. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 66. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 67. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 68. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 69. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 24
An inactive 65 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 70. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 71. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 72. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 25
An active 65 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 73. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 74. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 75. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 76. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 77. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 78. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 27
An inactive 65 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 79. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 80. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 81. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

An active 30 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)	
* 82. Please grade the radiographs according to Seebauer	
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head	l
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head	
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head	
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient	
* 83. Please grade the radiographs according to Hamada	
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm	
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less	
<b>Grade 3:</b> grade 2 with acetabularization of acromion	
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint	
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse	
* 84. Please select a treatment	
onon-operative (includes medications, injections, physical therapy, or watchful waiting)	
arthroscopic treatment	
hemiarthroplasty	
reverse shoulder arthroplasty	

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 85. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 86. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 87. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 30
An inactive 30 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 88. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 89. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 90. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 31
An active 30 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 91. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 92. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 93. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 94. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 95. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 96. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 33
An inactive 30 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 97. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 98. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 99. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 34
An active 30 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 100. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 101. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less Grade 3: grade 2 with acetabularization of acromion
Grade 3: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 102. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 30 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 103. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 104. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 105. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 36
An inactive 30 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 106. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 107. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 108. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

An active 45 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)
* 109. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 110. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 111. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 112. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 113. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 114. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 39
An inactive 45 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 115. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 116. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 117. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 40
An active 45 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 118. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 119. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
<ul> <li>Grade 2: acromio-humeral interval (AHI) 5mm or less</li> <li>Grade 3: grade 2 with acetabularization of acromion</li> </ul>
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 120. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 121. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 122. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 123. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 42
An inactive 45 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 124. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 125. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 126. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 43
An active 45 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 127. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 128. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 129. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 45 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 130. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 131. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 132. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 45
An inactive 45 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 133. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 134. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 135. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 46
An active 65 y.o. who works as a manual laborer presents with mild signs and symptoms (only during strenuous activities)
* 136. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 137. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 138. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with mild signs and symptoms (only during strenuous activities)
* 139. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 140. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 141. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 48
An inactive 65 y.o. who is very low demand with their shoulder presents with mild signs and symptoms (only during strenuous activities)
* 142. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 143. Please grade the radiographs according to Hamada
<b>Grade 1:</b> acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 144. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 49
An active 65 y.o. who works as a manual laborer presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 145. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 146. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 147. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 148. Please grade the radiographs according to Seebauer
Type 1A-Centered, Stable: minimal superior migration, C-A arch acetabularization and femoralization of humeral head
Type 1B-Centered, Medialized: minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 149. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 150. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 51
An inactive 65 y.o. who is very low demand with their shoulder presents with moderate signs and symptoms (predominant symptoms that limit most things)
* 151. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 152. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 153. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 52
An active 65 y.o. who works as a manual laborer presents with severe signs and symptoms (constant)
* 154. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 155. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 156. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

A 65 y.o. who works a desk job and enjoys playing rec basketball and lifting weights presents with severe signs and symptoms (constant)
* 157. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 158. Please grade the radiographs according to Hamada
Grade 1: acromio-humeral interval (AHI) > 6mm
<b>Grade 2:</b> acromio-humeral interval (AHI) 5mm or less
<b>Grade 3:</b> grade 2 with acetabularization of acromion
<b>Grade 4:</b> grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 159. Please select a treatment
ono-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 54
An inactive 65 y.o. who is very low demand with their shoulder presents with severe signs and symptoms (constant)
* 160. Please grade the radiographs according to Seebauer
<b>Type 1A-Centered, Stable:</b> minimal superior migration, C-A arch acetabularization and femoralization of humeral head
<b>Type 1B-Centered, Medialized:</b> minimal superior migration, medial glenoid erosion, C-A arch acetabularization and femoralization of humeral head
<b>Type 2A-Decentered, Limited Stable:</b> superior migration, superior-medial erosion, extensive C-A arch acetabularization and femoralization of humeral head
<b>Type 2B-Decentered, Unstable:</b> anterior-superior escape, absent stabilization, C-A arch and anterior structures deficient
* 161. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm
Grade 2: acromio-humeral interval (AHI) 5mm or less
Grade 3: grade 2 with acetabularization of acromion
Grade 4: grade 3 with narrowing of gleno-humeral joint
<b>Grade 5:</b> grade 4 with bony destruction and humeral head collapse
* 162. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty