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!

Case 1
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
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 2
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
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
 * 5. 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
 * 6. Please select a treatment non-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
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
* 8. 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
* 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
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
* 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

Case 5
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
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
* 14. 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
* 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
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
* 17. 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
* 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
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
* 20. 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
* 21. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 8
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
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
* 23. 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
 * 24. Please select a treatment non-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
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
* 26. 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
* 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
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
* 29. 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
* 30. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 11
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

-) 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
- * 32. 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

* 33. Please select a treatment

non-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
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
* 35. 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
* 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
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
* 38. 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
* 39. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 14
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
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
* 41. 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
* 42. Please select a treatment
onn-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
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
* 44. 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
* 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		
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		
* 47. 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		
* 48. Please select a treatment		
onn-operative (includes medications, injections, physical therapy, or watchful waiting)		
arthroscopic treatment		
hemiarthroplasty		
reverse shoulder arthroplasty		

Case 17
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
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
* 50. 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
* 51. Please select a treatment
onn-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
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
* 53. 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
* 54. Please select a treatment
onon-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
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
* 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
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 57. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty
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 * 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 Grade 4: grade 3 with narrowing of gleno-humeral joint Grade 5: grade 4 with bony destruction and humeral head collapse * 57. Please select a treatment non-operative (includes medications, injections, physical therapy, or watchful waiting) arthroscopic treatment hemiarthroplasty

Case 20
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
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
* 59. 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
* 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
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
* 62. 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
* 63. Please select a treatment
non-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
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
* 65. 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
* 66. Please select a treatment
non-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case	23
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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
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
* 68. 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
* 69. Please select a treatment
non-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
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
* 74. 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
* 75. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case	26
Case	20

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
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
* 77. 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
* 78. Please select a treatment
onn-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
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
* 80. 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
* 81. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 28
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
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
* 83. 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
* 84. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 29
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
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
* 86. 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
* 87. Please select a treatment
non-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
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
* 89. 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
* 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
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
* 92. 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
* 93. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 32
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
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
* 95. 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
* 96. Please select a treatment
onon-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
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
* 98. 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
* 99. Please select a treatment
non-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
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
* 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 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 102. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 35	
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	
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	
 * 104. Please grade the radiographs according to Hamada Grade 1: acromio-humeral interval (AHI) > 6mm Orade 2: acromic humeral interval (AHI) Same an lease 	
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	
* 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
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
* 107. 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
* 108. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 37
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
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
* 110. 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
* 111. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 38
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
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
* 113. 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
* 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
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
* 116. 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
* 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
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
* 119. 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
* 120. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 41
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
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
* 122. 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
* 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
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
* 125. 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
* 126. Please select a treatment non-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Casa	40
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
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
* 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
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 129. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 44
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
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
* 131. 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
* 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
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
* 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
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: grade 4 with bony destruction and humeral head collapse
* 135. Please select a treatment
non-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
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
* 137. 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
* 138. Please select a treatment
onon-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 47
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
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
* 140. 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
* 141. Please select a treatment
onn-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
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
* 143. 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
* 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
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
* 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
Grade 4: grade 3 with narrowing of gleno-humeral joint
Grade 5: 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

Case 50
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
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
* 149. 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
* 150. Please select a treatment
onn-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
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
 * 152. 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
* 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
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
* 155. 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
* 156. Please select a treatment
onn-operative (includes medications, injections, physical therapy, or watchful waiting)
arthroscopic treatment
hemiarthroplasty
reverse shoulder arthroplasty

Case 53
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
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
* 158. 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
* 159. Please select a treatment
onon-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
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
* 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
Grade 5: 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