

Contents

1	Acromion/Spina Scapulae	1
1.1	The morphology of the acromion according to Bigliani	1
1.2	Classification of the acromial morphology on sagittal oblique MRI according to Epstein	2
1.3	Types of os acromiale according to Liberson	4
1.4	Types of scapular notch according to Rengachary et al.	5
2	Subacromial space	7
2.1	Stages of outlet impingement according to Neer	7
2.2	Stages of impingement in athletes according to Jobe	8
3	Classifications of calcifying tendinitis of rotator cuff	9
3.1	Stages of calcifying tendinitis according to Uhthoff	9
3.2	Radiologic staging of calcifying tendinitis of the shoulder joint according to Gärtner and Heyer	11
3.3	Radiological classification of calcific deposit according to Bosworth	12
3.4	Classification of radiological morphology of calcifying tendinitis of the rotator cuff according to Molé et al.	12
4	Classifications of frozen shoulder	13
4.1	Classification of frozen shoulder according to Lundberg	13
4.2	Stages of frozen shoulder according to Reeves	13
4.3	Arthroscopic stages of adhesive capsulitis according to Neviaser	14
5	Classifications of rotator cuff	17
5.1	Classifications of rotator cuff tears according to Patte	17
5.2	Topography of rotator cuff tear in the sagittal plane according to Habermeyer	19

- 5.3** Arthroscopic classification of partial-thickness rotator cuff tears according to Ellman 20
- 5.4** Arthroscopic classification of rotator cuff lesions according to Snyder (the Southern California Orthopedic Institute (SCOI) rotator cuff classification system) 22
- 5.5** Classification of complete rotator cuff tears according to Cofield 23
- 5.6** Classification of complete rotator cuff tears according to Bateman 23
- 5.7** Classification of the extent of rotator cuff tears according to Patte 24
- 5.8** Patterns of full-thickness rotator cuff tears according to Ellman and Gartsman 26
- 5.9** Classification of subscapularis tendon tears according to Fox and Romeo 28
- 5.10** Classification of tendon retraction in the frontal plane according to Patte 29
- 5.11** Classification of supraspinatus muscle atrophy in MRI according to Thomazeau 29
- 5.12** Classification of supraspinatus muscle atrophy in MRI according to Zanetti 31
- 5.13** Classification of fatty muscle degeneration in cuff ruptures using CT-scan according to Goutallier et al. [49] 33

- 6** **Classifications of pathology of long head of the biceps tendon** 35
 - 6.1** Variants of the origin of the long head of the biceps from the scapula and glenoid labrum according to Vangsness et al. 35
 - 6.2** Classification of SLAP-Lesions (superior labrum, anterior to posterior lesion) according to Snyder 36
 - 6.3** Classification of SLAP lesion according to Maffet et al. 38
 - 6.4** Subtypes of SLAP II lesions according to Morgan 39
 - 6.5** Topographic classification of LHB-lesions 40
 - 6.6** Classification of biceps tendon disorders according to Yamaguchi and Bindra 41

- 6.7** Histological changes of the long head of the biceps tendon according to Murthi et al. 42
- 6.8** Classification of subluxation of the long head of the biceps tendon according to Walch 42
- 6.9** Classification of dislocation of the long head of the biceps tendon according to Walch 43
- 6.10** Classification of “hidden” rotator interval lesions according to Bennett 45
- 6.11** Classification of pulley lesions according to Habermeyer et al. 46

- 7** **Classifications of instability** 49
- 7.1** Classification of scapular dyskinesis according to Kibler and McMullen 49
- 7.2** Types of variable topographical relationship of the glenohumeral ligaments to the synovial recesses (types of arrangement of the synovial recesses) according to DePalma 50
- 7.3** Variations of glenohumeral ligaments according to Gohlke et al. 53
- 7.4** Anatomical variations of the glenohumeral ligaments according to Morgan et al. 56
- 7.5** Classification of instability according to Silliman and Hawkins 57
- 7.6** Grading of glenohumeral translation according to Hawkins et al. 58
- 7.7** Classification of recurrent instability according to Neer and Foster 59
- 7.8** Classification of shoulder instability according to Matsen et al. 60
- 7.9** Classification of shoulder instability according to Gerber et al. 61
- 7.10** Classification of shoulder instability according to Bayley et al. 71
- 7.11** Types of lesions of anterior inferior shoulder instability according to Habermeyer 73

- 7.12** Classification of posterior shoulder instability according to Ramsey and Klimkiewicz 76
- 7.13** Classification of glenoid rim lesions according to Bigliani et al. 79
- 7.14** Arthroscopic classification of Hill-Sachs lesions according to Calandra et al. 79
- 7.15** Classification of significant Hill-Sachs lesions according to Burkhart and De Beer 80
- 7.16** Stages of evolution of lesions of the labrum-ligament complex in posttraumatic anterior shoulder instability according to Gleyze and Habermeyer 82
- 7.17** Classification shoulder injury/dysfunction (impingement and instability) in the overhand or throwing athlete according to Kvitne et al. and Jobe et al. 84
- 7.18** Arthroscopic classification of labro-ligamentous lesions associated with traumatic anterior chronic instability according to Boileau et al. 87

- 8 Acromioclavicular joint 91**
 - 8.1** State of AC-joint space and SC-joint space according to De Palma 91
 - 8.2** Classification of AC-joint dislocation according to Tossy et al. 93
 - 8.3** Classification of AC-joint injuries according to Allman 94
 - 8.4** Classification of AC-joint injury according to Rockwood et al. 96

- 9 Sternoclavicular joint 103**
 - 9.1** Classification of SC-joint injury according to Allman 103

- 10 Classifications of fractures of the clavicle 105**
 - 10.1** Classification of fractures of the clavicle according to Allman 105
 - 10.2** Classification of fractures of the clavicle according to Neer 106
 - 10.3** Classification of fractures of the clavicle according to Jäger and Breitner 109

10.4	Classification of clavicular fractures according to Craig	111
10.5	Classification of fractures of the clavicle in adult according to Robinson	114
10.6	Classification of nonunion of clavicular fractures according to Neer	117
10.7	Classification of epiphyseal fractures of the proximal end of the clavicle according to Rockwood and Wirth	117
11	Classifications of proximal humeral fractures	119
11.1	Classification of proximal humeral fractures according to Neer	119
11.2	AO-Classification of proximal humeral fractures	131
11.3	Classification of proximal humeral fractures according to Habermeyer	138
11.4	Surgical classification of sequelae of proximal humerus fracture according to Boileau et al.	140
11.5	Classification of periprosthetic humeral fractures according to Wright and Cofield	142
12	Classifications of scapular fractures	143
12.1	Classification of scapula fractures according to Euler and Rüedi	143
12.2	Classification of scapular fractures according to DeCloux and Lemerle	146
12.3	Classification of scapular fractures according to Zdravkovic and Damholt	146
12.4	Classification of intraarticular scapular fractures according to Ideberg et al.	147
12.5	Classification of fractures of the glenoid cavity according to Goss	148
12.6	Classification of glenoid neck fractures according to Goss	150
12.7	Types of traumatic ring/strut disruption of the superior shoulder suspensory complex according to Goss	151
13	Classifications of osteoarthritis of the shoulder	155
13.1	Grading of chondromalacia according to Outerbridge	155

- 13.2** Classification of glenoid morphology in primary gleno-humeral osteoarthritis according to Walch et al. 155
- 13.3** Assessment of humeral head subluxation according to Walch et al. 157
- 13.4** Classification of vertical glenoid morphology according to Habermeyer 157
- 13.5** Classification of osteoarthritis with massive rotator cuff tears according to Favard et al. 159
- 13.6** Classification of cuff tear arthropathy according to Seebauer et al. 160
- 13.7** Classification of cuff tear arthropathy according to Hamada et al. 161
- 13.8** Classification of glenoid erosion in glenohumeral osteoarthritis with massive rupture of the cuff according to Sirveaux et al. 162
- 13.9** Radiographic classification of dislocation arthropathy of the shoulder according to Samilson and Prieto 163

- 14** **Classifications of necrosis of the humeral head** 165
 - 14.1** Classification of osteonecrosis of bone according to Cruess 165
 - 14.2** Classification of avascular necrosis of the humeral head according to Neer 167
 - 14.3** Classification of the extent of osteonecrosis of the humeral head according to Hattrup and Cofield 169

- 15** **Classifications for rheumatoid arthritis** 171
 - 15.1** Variations in involvement in rheumatoid arthritis 171
 - 15.2** Staging of glenoid wear in rheumatoid arthritis according to L  vigne and Franceschi 173
 - 15.3** Staging of humeral head wear in rheumatoid arthritis according to L  vigne and Franceschi 173
 - 15.4** Radiological classification of rheumatoid arthritis according to L  vigne and Franceschi 174
 - 15.5** Radiologic classification of rheumatoid arthritis according to Larsen, Dale, Eek 176

-
- 16 Classification of septic arthritis 179**
 - 16.1** Stages of joint infection according to Gächter and Stutz et al. 179
 - 16.2** Proposed classification system of septic arthritis according to Tan et al. 179

 - 17 Classification of neoplasms 183**
 - 17.1** The system for the surgical staging of musculoskeletal sarcoma according to Enneking et al. 183

 - 18 Classifications in shoulder arthroplasty 191**
 - 18.1** Radiographic assessment of radiolucent lines of the humeral component according to Sperling et al. 191
 - 18.2** Radiographic assessment of radiolucent lines of the glenoid component according to Sperling et al. 192
 - 18.3** Radiographic assessment of radiolucent lines of the cemented glenoid component according to Molé et al. 193
 - 18.4** Radiographic assessment of radiolucent lines of the glenoid component according to Franklin et al. 194
 - 18.5** Radiographic assessment of radiolucent lines of the cemented glenoid component according to Wilde et al. 194
 - 18.6** Classification of bone defects of the scapular notch for inverse shoulder arthroplasty according to Sirveaux 195
 - 18.7** Classification of glenoid bone deficiencies after glenoid component removal according to Antuna et al. 195
 - 18.8** Classification of heterotopic bone formation following total shoulder arthroplasty according to Kjaersgaard-Andersen et al. 196

 - 19 Scores 199**
 - 19.1** Constant-Murley Score 199
 - 19.1.1** Normative age- and sex-specific Constant Score according to Gerber et al. 202
 - 19.1.2** Normative age- and gender-related Constant Score according to Katolik et al. 204

19.1.3	Valuation of the Constant Score according to Boehm	204
19.2	Questionnaire based on the Constant-Murley Score for patient self-evaluation of shoulder function according to Boehm	205
19.3	UCLA shoulder rating	213
19.4	DASH (Disabilities of the Arm, Shoulder and Hand) Questionnaires	214
19.4.1	The DASH Questionnaire	220
19.4.2	The Quick DASH Questionnaire	220
19.4.3	Scoring the DASH	220
19.5	The ASES (American Shoulder and Elbow Surgeons) Score	222
19.6	Simple shoulder test	228
19.7	Short form 36 (SF-36)	233
19.8	VAS	248
19.9	Shoulder pain and disability index (SPADI)	249
19.10	Self-administered questionnaire for assessment of symptoms and function of the shoulder according to L'Insalata et al.	252
19.11	"Oxford" questionnaire on the perceptions of patients about shoulder surgery	259
19.12	Oxford shoulder instability questionnaire	262
19.13	Rowe Score	265
19.14	The modified Rowe Score according to Jobe et al.	266
19.15	The Western Ontario shoulder instability index (WOSI)	267
19.16	The Walch-Duplay Score for instability of the shoulder	270
19.17	The Western Ontario rotator cuff index (WORC)	270
19.18	The rotator cuff quality-of-life measure (RC-QOL)	274
19.19	The Western Ontario osteoarthritis of the shoulder index (WOOS)	278

References	283
-------------------	-----

Sachverzeichnis	293
------------------------	-----

Classifications and Scores of the Shoulder

Habermeyer, P.; Magosch, P.; Lichtenberg, S.

2006, XVI, 298 p. 210 illus., 24 illus. in color., Softcover

ISBN: 978-3-540-24350-2