

Index

- A**
- Acromioclavicular (AC) joint
 anatomy of, 17
 conditions causing discomfort at, 199
 instability of, after distal clavicle resection, 206
 pain in, distal clavicle excision for, 49
- Acromioclavicular resection
 complications of, 236
 direct superior approach to, 209–214
 indirect subacromial approach, 199–207
- Acromion
 Os-acromiale, 236
 outlining, 17
 resection of, in arthroscopic subacromial decompression, 147–148
- Adhesions
 association with stiff or frozen shoulder, 137
 from inflammation, releasing to improve shoulder motion, 49
- Age
 and joint space narrowing, 201
 and rotator cuff damage, 151
- Anatomy, shoulder, 17–34
- Anchors, placing into the posterior glenoid, 103
- Anesthesia
 for anterior instability treatment, 83
 for arthroscopic subacromial decompression, 145
 complications of, in shoulder arthroscopy, 235
 for diagnostic shoulder arthroscopy
 beach chair position, 9, 10–12
 interscalene block, 235
 lateral decubitus position, 3
 for shoulder arthroscopy, in arthritis, 47
- for stiff or frozen shoulder management, 136
- Anterior glenoid rim, preparation of, for knotless suture anchors, 124–125
- Anterior inferior portal (AIP), placing, 91–92
- Anterior instability, Suretac technique for treating, 83–87
- Anterior ligamentous periosteal sleeve avulsion (ALPSA) lesion, 24–26
 converting to a Bankart lesion, 124–125
 as a variant of glenohumeral pathology, 238
- Anterior midglenoid portal (AMGP), creating, 65
- Anterior stabilization, conditions for success of, 9, 124–125
- Anterior superior portal (ASP), placing
 in diagnostic arthroscopy of the glenohumeral joint, 91
 in repair of superior labrum anterior and posterior lesions, 64
- Arthritis/arthritic shoulder
 degenerative, and stiff or frozen shoulder treatment, 135
 treatment of, 45–51
 debridement for, 235–237
- Arthroscopic stabilization, complications of, 237
- Arthroscopic subacromial decompression (ASAD), 143–150
- Axillary nerve
 anatomy of, 17, 31–32
 neuritis of, following thermal capsulorrhaphy, 120
 risk to, in capsular release, 138
- B**
- Bankart lesion, 23–28
 capsular injury associated with, 238
- complete repair of, 239
 converting an anterior ligamentous periosteal sleeve avulsion lesion to, 124–125
 defined, 24
 repair of, bioabsorbable tack use in, 83
 Suretac technique for treating, outcome of, 86
 suture anchor stabilization of, 89–90
 with knotless suture anchors, 123–131
- Basic science, in rehabilitation, 218–219
- Beach chair position, for diagnostic shoulder arthroscopy, 9–15
- Beath pin, 76–77
- Bezold-Jarisch reflex, and complications in beach chair positioning caused by, 14–15
- Biceps tendon, long head of, 18–19
- Biceps tenodesis
 arthroscopic, 71–80
 postarthroscopy long head rupture in, 236
- Bicipital groove, location and opening of, 73–74
- Bioabsorbable materials,
 anchor, 165–166
 tack, 83–84
- BioKnotless Suture Anchor, for repairing glenohumeral ligaments, 123–125
- Biomechanical model, for striking and throwing sports, 219
- Bleeding
 as a complication in shoulder arthroscopy, 231
 hemostasis
 to facilitate knot tying, 36
 with a holmium-YAG laser, 54
- Bone
 adequacy of, as a complication in repair, 240

- Bone (*Continued*)
 heterotopic ossification, after distal clavicle resection, 206
 scan of, to demonstrating joint pathology, 201
- Brachial plexus, permanent nerve injury to, in interscalene block anesthesia, 235
- Bradycardia, transient, in the beach chair position, 14–15
- Buford complex
 defined, 23
 with a superior labrum anterior and posterior lesion, type II, 63
- Bursa, subacromial, in arthritic shoulders, 50
- Bursectomy
 anterosuperior, 73–74
 in distal clavicle excision, 202
 partial
 in calcific tendonitis, 193–194
 in subacromial decompression, 146–147
- C**
- Calcific tendonitis, management of, 191–195
- Cannula, selection of, to facilitate knot tying, 36
- Capsular laxity, anterior, 107
 diagnosing, 152
- Capsular release
 anterior and posterior, for treating stiff or frozen shoulder, 138
 in surgery for arthritic shoulder, 49
 complications of, 237
 outcome of, 50
- Capsulitis, adhesive
 arthroscopic treatment, 135–140
 as a complication in shoulder arthroscopy, 235
 after thermal capsulorrhaphy, 120
- Cephalic vein, injury to, in shoulder arthroscopy, 231
- Classification
 of osteoarthritis, 45–46
 of rotator cuff tears
 massive, 173
 partial-thickness, 154–156
 of superior labrum anterior and posterior (SLAP) lesions, 59–60
- Collagen disorders, failure of the suture plication technique for managing, 112
- Comma sign, for chronic complete subscapularis tears, 186
- Complications
 of acromioclavicular resection, direct superior approach, 214
 of anterior instability treatment, 86
 of biceps tenodesis, 80
 of calcific tendonitis, treated arthroscopically, 195
 of debridement, arthroscopic, 50
 of distal clavicle excision, subacromial approach, 206
 of knotless suture anchor use, for anterior stabilization, 130–131
 of rotator cuff repair, 171
 massive tears, 181
 partial-thickness tears, 159
 of shoulder arthroscopy, 231–242
 in the beach chair position, 14–15
 of stiff or frozen shoulder release, 140
 of subacromial decompression, 149–150
 of subscapularis tendon repair, 190
 of the suture anchor technique, 95
 for posterior stabilization, 102–103
 of the suture plication technique, 112–113
 of synovectomy, 55
 of thermal capsulorrhaphy, for multidirectional instability, 120
- Computerized tomography, for detecting labral pathology, 61
- Contraindications. *See* Indications/contraindications
- Coracoacromial ligament (CAL), anatomy of, 32–33
 visualization of, in diagnostic arthroscopy, 8
- Coracoclavicular ligament, reconstruction of, in distal clavicle instability, 199
- Coracoid tip, portal position relative to, 17
- Coracoplasty, in association with subscapularis tendon repair, 187–188
- Cortisone, intra-articular injection of, after treatment of frozen shoulder, 139
- D**
- Debridement
 of bursal tissue, 49
 in calcific tendonitis, 194
 for pain unresponsive to conservative treatment, 46–47
 for rotator cuff tears
 massive, 173
 partial thickness, 157–159
 surgical technique, 48
- Decompression, of subacromial space, 143–150
- Definitions, knot-tying vocabulary, 35
- Degeneration, and articular fraying of the rotator cuff, 153
- Deltoid detachment, avoiding, with arthroscopic rotator cuff repair, 173
- Diabetes, stiff or frozen shoulder in, 140
- Diagnosis
 arthroscopic, 48
 in multidirectional instability, 106–107
 of pathology associated with osteoarthritis, 46–47
 of superior labrum anterior and posterior lesions, 69
 beach chair position for, 9–15
 differential, of acromioclavicular arthrosis, 206
 of glenohumeral joint pathology, 91
 imaging for, superior labrum anterior and posterior lesions, 61
 lateral decubitus position for, 3–8
 and rehabilitation, 219–221
 of synovial disease, 53
 tests for acromioclavicular joint pathology, 209–210
- Disorders, synovial, list, 54
- Distal clavicle
 excision of, for acromioclavicular joint pain, 49
 resection of, 199–207
- Drive-through sign
 association with multidirectional instability, 29
 after capsular release, 138
 positive, multidirectional instability associated with, 13
- Duncan loop, 38–40
 in the suture anchor technique, 93–94
- E**
- Etiology, of rotator cuff tears, partial-thickness, 151–153
- Evaluation, preoperative, of the arthritic shoulder, 47
- Examination
 arthroscopic inspection, 6
 preoperative, after anesthesia, 12
- F**
- Fixation
 adequacy of, 239–240
 maintenance of, 240–241
- Flow sheet, for rehabilitation, 218

- G**
- Gadolinium**
 injection of, to improve magnetic resonance imaging in labral pathology, 61
 magnetic resonance imaging with, for biceps tendon assessment, 71
- Glenohumeral articulation, anatomy of, 30–31**
- Glenohumeral joint**
 arthritis of, outcome of arthroscopic debridement, 50
 arthroscopic visualization of, 4, 193
 from the anterior and posterior portals, 7
 diagnostic, 91
 distending, for portal positioning, 12–13
 exploration of, in biceps tenodesis, 73
 instability of, suture anchor technique for repairing, 89, 97–103
 stability of, and rehabilitation, 224
- Glenohumeral ligaments**
 anatomy of, 27–29
 repair of, with knotless suture anchors, 124–125
- Glenoid, anatomy of, 31**
- Glenoid labrum**
 anatomy of, 22–26
 arthroscopic resection of, outcomes, 69
- Guidelines, for progression in rehabilitation, 225–226**
- H**
- HAGL lesion, 28, 238. *See also* Humeral avulsion of glenohumeral ligament**
- Half hitch, alternating, 41**
- Healing area**
 creating, in the suture plication technique, 107
 preparation of, glenoid, 239
- Hemostasis. *See* Bleeding**
- Hill-Sachs lesion, 31**
- Humeral avulsion of glenohumeral ligament (HAGL) lesion, 28**
- Humeral head, anatomy of, 31**
- Humeral socket, drilling, for biceps tenodesis, 75–76**
- Humerus, positioning, in beach chair position evaluation of the rotator cuff, 13**
- Hypotension, transient, in the beach chair position, 14–15**
- I**
- Iatrogenic injury, 232**
 fracture, risk of
 in arthroscopic subacromial decompression, 149
 in osteoarthritis, 48–49
- Imaging**
 for assessing the biceps tendon, 71
 diagnostic, in superior labrum anterior and posterior lesion evaluation, 61
See also Magnetic resonance imaging (MRI)
- Immobilization, after anterior capsulolabral repair, with the suture anchor technique, 94**
- Impingement syndrome, tests for validating presence of, 144**
- Implantation**
 degradation of implants, 240–241
 procedure for, 239–240
- Indications/contraindications**
 for acromioclavicular resection, direct superior approach, 209
 for anterior instability treatment, with the Suretac technique, 83–84
 for anterior stabilization, with knotless suture anchors, 123
 for the beach chair position, in diagnostic shoulder arthroscopy, 9–10
 for biceps tenodesis, 71
 for calcific tendonitis management, 191–192
 for distal clavicle excision, 199–200
 for osteoarthritis treatment, 46–47
 for rotator cuff repair
 arthroscopic, 161
 massive tears, 173–174
 partial-thickness tears, 153
 for SLAP lesion treatment, 59
 for stiff or frozen shoulder treatment, 135–140
 for subacromial decompression, 143
 for subscapularis tendon repair, 183–184
 for the suture anchor technique
 in Bankart lesion treatment, 89–90
 in posterior glenohumeral instability, 97
 for the suture plication technique, in multidirectional instability, 105–106
 for thermal capsulorrhaphy, 115
- Infection, in shoulder arthroscopy, 232**
- Inferior glenohumeral ligament (IGHL), anatomy of, 28–29**
 relationship to the labrum, 24
- Injection**
 intra-articular, of cortisone, after treatment of frozen shoulder, 139
 selective, for diagnosis of impingement syndrome, 144
- Injury**
 compression, in superior labrum anterior and posterior lesions, 59
 peel-back, of the biceps-superior labrum complex, 23
 traction, in superior labrum anterior and posterior lesions, 59
 vascular, as a complication in shoulder arthroscopy, 231
- Instability, assessment of, to avoid complications, 238**
- Instrumentation**
 for ablation and vaporization of tissue, in subacromial decompression, 146
 for anterior capsulolabral repair, 91
 for anterior instability
 Suretac technique for treating, 83
 using knotless suture anchors, 124
 for calcific tendonitis management, 193
 for diagnostic shoulder arthroscopy, 6
 beach chair position, 12
 for distal clavicle excision, 201
 for multidirectional instability management, 106
 for rotator cuff repair
 full-thickness tears, 164
 massive tears, 175
 partial-thickness tears, 154
 for stiff or frozen shoulder treatment, 136–137
 for subscapularis tendon repair, 185
 for surgery on the arthritic shoulder, 47–48
 for the suture anchor technique, for posterior glenohumeral instability, 98
 for synovial disease management, 53
 for thermal capsulorrhaphy, in multidirectional instability, 116
 for the transhumeral pin technique, 72

- Interference screw, characteristics of, for biceps tenodesis, 80
- Intraoperative factors, in complications, 238–241
- K**
- Knotless suture anchor, procedure for using, 123–125
- Knots/knot tying
- arthroscopic, 35–42
 - Roeder, in the suture plication technique, 111
 - self-locking, in the suture plication technique, 107
 - static locked knot, in full-thickness rotator cuff tear repair, 167
 - in the suture anchor technique, 98–100
- L**
- Labrum
- anterior, visualization of, beach chair position, 13
 - anterosuperior, anatomy of, 23
 - posterior, detachment and instability of, 24
 - superior, 22–23
 - tears in, treating, 61–62
 - See also* Superior labral anterior-posterior (SLAP) lesions
- Landmarks
- for arthritic shoulder surgery, 48
 - bony
 - for acromioclavicular resection, direct superior approach, 210–211
 - for biceps tenodesis with the transhumeral pin technique, 72
 - for calcific tendonitis management, 193–194
 - for portal placement, 17
 - for subacromial decompression, 145–146
 - defining, in the beach chair position, 12
 - for portal placement, 17, 54
 - for stiff or frozen shoulder treatment, 137
- Laser, holmium-YAG, for hemostasis and tissue ablation, 54
- Lateral decubitus position
- for diagnostic shoulder arthroscopy, 3–6
 - for posterior glenohumeral instability management, suture anchor technique, 98
- Learning curve, for arthroscopic shoulder surgery, 3
- Lift-off test, for subscapularis muscle assessment, 174
- M**
- Magnetic resonance imaging (MRI)
- for diagnosis, of labral lesions, 61
 - for evaluation
 - of the biceps tendon, 71
 - of full-thickness rotator cuff tears, 163
 - of massive rotator cuff tears, 174
 - of partial-thickness rotator cuff tears, 153
 - of rotator cuff pathology, 144
 - with gadolinium, 61, 71
- Medical complications of shoulder arthroscopy, 235
- Metoprolol, prophylactic, to prevent complications in beach chair position, 15
- Middle glenohumeral ligament (MGHL), 23
- anatomy of, 27–28
- Mobilization, ligamentous/labral, complications in, 239
- Motion, continuous passive, machine to maintain, 139
- Multidirectional instability (MDI)
- “drive-through” sign associated with, 29
 - suture plication technique for treating, 105–113
 - thermal technique for treating, 115–121
- Musculocutaneous nerve, anatomy of, 32
- N**
- Napoleon test, for subscapularis function assessment, 183
- Necrosis, capsular, following thermal capsulorrhaphy, 120
- Nerve injuries
- in anterior instability treatment with the Suretac technique, 86
 - due to lack of attention to positioning and padding, 14–15
 - in shoulder arthroscopy, 232–235
- Nerves, anatomy of, 31–32
- Neviaser supraclavicular portal, 17, 166
- Nonsliding knots, 38
- Non-transhumeral pin technique, 78
- O**
- O’Brien’s test, for superior labral pathology, 209–210
- Open surgical procedure, conversion to, 9
- Osteoarthritis
- biochemical events associated with, 45
 - primary, of the acromioclavicular joint, 200
 - treatment of, indications and contraindications, 46–47
- Osteolysis, distal clavicle, 199
- Osteophytes, debridement of, 46–47
- Outcome
- of acromioclavicular resection, direct superior approach, 214
 - of anterior instability treatment with the Suretac technique, 86
 - of arthritic shoulder arthroscopy, 50
 - of beach chair positioning, 14
 - of biceps tenodesis, 79
 - of calcific tendonitis treated arthroscopically, 195
 - of distal clavicle excision, subacromial approach, 205–206
 - of knotless suture anchor use for anterior stabilization, 130
 - of posterior stabilization, with the suture anchor technique, 102
 - of rotator cuff repair, 171
 - massive tears, 180–181
 - partial-thickness tears, list, 157–158
 - of stiff or frozen shoulder release, 140
 - of subacromial decompression, 149
 - of subscapularis tendon repair, 189–190
 - of superior labrum anterior and posterior lesion surgery, 69
 - of suture anchor stabilization, table, 94
 - of the suture plication technique, for multidirectional instability, 112
 - of synovectomy, 55
 - of thermal capsulorrhaphy, for multidirectional instability, 119–120
- Outerbridge classification system, for osteoarthritis, 45–46
- P**
- Pain
- association with superior labrum anterior and posterior lesions, 61
 - control of, after subacromial decompression, 148–149
 - debridement for treating, 46–47
 - mechanical causes of, addressing in surgery, 48
- Partial articular supraspinatus tendon avulsion (PASTA) lesion, 152–153
- subscapularis tears analogous to, 185

- Pathology
 anterior shoulder, patient
 positioning in diagnosis of, 4
 shoulder, 24–26
- Pathophysiology, of the arthritic
 shoulder, 45
- Patient, positioning of
 for anterior capsulolabral repair,
 suture anchor technique, 90
 for anterior instability treatment,
 Suretac technique, 83
 for anterior stabilization, with
 knotless suture anchors, 124
 for arthritic shoulder surgery, 47
 beach chair
 for acromioclavical excision,
 superior approach, 210
 for shoulder arthroscopy, 10–12
 for biceps tenodesis, 72
 for calcific tendonitis arthroscopy,
 193
 for distal clavicle excision, 201–204
 to facilitate knot tying, 36
 lateral decubitus
 for partial-thickness rotator cuff
 tear arthroscopy, 154
 for rotator cuff tear repair, 163,
 174
 for subscapularis tendon repair,
 184–185
 for the suture plication
 technique, 106
 for posterior instability treatment,
 suture anchor technique, 97–98
 for shoulder arthroscopy,
 diagnostic, 3–6
 for stiff or frozen shoulder
 treatment, 135–136
 for subacromial decompression,
 144–145
 for synovectomy, 53
 for thermal arthroscopy, in
 multidirectional instability,
 116
- Perioperative factors, in
 complications, 237–238
- Personnel, surgical, for diagnostic
 shoulder arthroscopy, 6
- Physical examination, in superior
 labrum anterior and posterior
 lesions, 61
- Physical therapy, after suture anchor
 stabilization, 94. *See also*
 Rehabilitation
- Physiological model, for throwing and
 striking sports, 219
- Planning, preoperative
 for acromioclavicular resection,
 direct superior approach,
 209–210
 for anterior capsulolabral repair, 90
 for anterior stabilization with
 knotless suture anchors, 123
 for biceps tenodesis, 71
 for calcific tendonitis management,
 192–193
 for diagnostic shoulder arthroscopy,
 10
 for distal clavicle excision, 200–201
 in multidirectional instability
 for reconstruction, 106
 for thermal capsulorrhaphy repair,
 115–116
 for repair
 posterior glenohumeral, with the
 suture anchor technique, 97
 rotator cuff, of a full-thickness
 tear, 161–162
 rotator cuff, of a massive tear,
 174
 rotator cuff, of a partial-thickness
 tear, 153
 subscapularis tendon, 184–185
 for stiff or frozen shoulder
 management, 135
 for subacromial decompression,
 143–144
 with the Suretac technique for
 anterior instability treatment,
 83
 for synovectomy, 53
- Plyometric exercises, 225
- Portal
 accessory, to facilitate knot tying,
 36
 anterior
 placement of, 7, 17
 placement of, in the beach chair
 position, 13
 for synovectomy, 54
 anterior inferior, 18
 placement of, and superficial
 anatomy, 17–18
 posterior, placement of, 6, 48
 in the beach chair position, 12
 and superficial anatomy, 54
 posteroinferior, in glenohumeral
 synovectomy, 54
- Postoperative management
 in acromioclavicular resection,
 direct superior approach, 214
 in anterior instability surgery, using
 the Suretac technique, 86
 in anterior stabilization, with
 knotless suture anchors, 130
 in arthroscopic subacromial
 decompression, 148–149
 in beach chair positioning for
 diagnostic shoulder
 arthroscopy, 14
 in biceps tenodesis, 79
 in calcific tendonitis, 194
 in capsular plication and thermal
 capsulorrhaphy, for
 multidirectional instability,
 118–119
 and complications, 241
 in distal clavicle excision, 205
 in rotator cuff repair
 full-thickness tear, 170–171
 massive tear, 180
 partial-thickness tear, 157
 in stiff or frozen shoulder
 treatment, 139–140
 in subscapularis tendon repair, 189
 in superior labrum anterior and
 posterior lesion surgery, 69
 in surgery for arthritic shoulder
 pain, 50
 in the suture anchor technique
 for anterior capsulolabral repair,
 94
 for posterior instability repair,
 102
 in the suture plication technique,
 for multidirectional instability,
 112
 in synovectomy, 55
- Post suture, selection and placement
 of, 36–37
- Prosthetic replacement, in stage III
 arthritis, 46–47
- Proximal segment control, assessment
 of, in rehabilitation, 221
- Q**
- Quality of life, after anterior
 capsulolabral repair, 90
- R**
- Radiofrequency devices, in
 arthroscopic subacromial
 decompression, 145–148
- Radiographs/x-ray films
 for acromioclavicular joint
 pathology, 200–201
 for evaluating impingement, 144
- Readiness to play, evaluating, 226
- Rehabilitation
 in multidirectional instability,
 focus on, 105
 following operative shoulder
 arthroscopy, 217–227
- Results. *See* Outcome
- Revo knot, 41
- Rheumatoid arthritis
 acromioclavicular, 200
 synovial, 53–55
- Rotator cuff
 anatomy of, 29–30

- Rotator cuff (*Continued*)
 complications in repair of, 236–237
 defined, 151
 examination of, lateral decubitus position, 6
 pathology of, magnetic resonance imaging for assessing, 144
 tears of
 crescent-shaped, 164–167
 full-thickness, 161–172
 massive, arthroscopic management of, 173–182
 partial-thickness, 151–160
 U-shaped, 168–170
 visualization of, beach chair position for, 9, 13
- S**
- Scapular rehabilitation, evaluation for, 222–223
- Screening, in clinical evaluation of patients, 219–221
- Screw fixation, in biceps tenodesis surgery, 77
- Single-anchor double-suture sling (SADS), in repair of type II SLAP lesions, 62
- Sliding knots, 37–38
- SMC knot, 40
- Spectrum repair system
 in the suture anchor technique, 98
 in the suture plication technique, 106
- Speed's test, in preoperative evaluation for biceps tenodesis, 71
- Spinoglenoid ganglion cyst, differentiating from rotator cuff tear, 162
- Staging. *See* Classification
- STAR sleeve system (shoulder traction and rotation), 4–5
- Stiffness
 as a complication in shoulder arthroscopy, 235
 shoulder, arthroscopic treatment of, 135–140
- Subacromial approach, in distal clavicle resection, 199–207
- Subacromial smoothing, in U-shaped rotator cuff tears, 169
- Subacromial space
 anatomy of, 32–33
 arthroscope placement in examination of, 7–8
 arthroscopy of, traction in, 5–6
 decompression of, 143–150
 accompanying rotator cuff repair, outcomes, 159
 complications in, 236–237
 with debridement of bursal tissue, 49
 evaluation of, in the beach chair position, 13
- Sublabral hole, defined, 23
- Subscapularis tendon, repair of, 183–190
- Sulcus sign, for diagnosing multidirectional instability, 105
- Superior glenohumeral ligament (SGHL), anatomy of, 27
- Superior labral anterior-posterior (SLAP) lesions, 22–23
 association with partial-thickness rotator cuff tears, 152
 treatment of, 59–70
 complications in, 235–236
- Superior lateral brachial cutaneous (SLBC) nerve, anatomy of, 31–32
- Suprascapular nerve, anatomy of, 32
- Supraspinatus tendon, partial-thickness rotator cuff tears in, 151–153
- Suretac technique, for anterior instability treatment, 83–87
- Suture anchors
 knotless, for anterior stabilization of the shoulder, 123–131
 placing, 93–94
 for rotator cuff repair, 170, 180
- Suture anchor technique
 for anterior capsulolabral shoulder stabilization, 89–96
 for posterior instability treatment, 97–103
 for rotator cuff repair, 156–157
- Suture capsular imbrication, risk to the axillary nerve in, 32
- Suture loop shuttle, for utility loop passage, 125–129
- Suture plication technique, for treating multidirectional instability, 105–113
- Sutures
 arranging, in superior labrum anterior and posterior lesion surgery, 64–68
 selection of materials for, 36–37
 traction, in subscapularis tendon repair, 189
- Swelling, as a complication in shoulder arthroscopy, 231
- Synovial fluid, biochemical analysis of, in osteoarthritis, 45
- Synovium
 inflamed, removal in osteoarthritis, 48
- synovectomy for removing diseased tissue, 53–55
- synovitis, association with stiff or frozen shoulder, 137
- visualization of, in diagnostic shoulder arthroscopy, 13
- T**
- Tautline hitch, 38, 40
- Techniques
 to facilitate knot tying, 38–42
 surgical
 for acromioclavicular resection, direct superior approach, 210–213
 for anterior capsulolabral repair, with the suture anchor technique, 91–94
 for anterior instability treatment, 84–86
 for anterior stabilization, with knotless suture anchors, 124–129
 for arthritic shoulder treatment, 48–49
 for biceps tenodesis, 72–78
 for calcific tendonitis management, 193–194
 for distal clavicle resection, 201–204
 for multidirectional instability, with suture plication, 106–112
 for posterior glenohumeral instability treatment, 98–102
 for rotator cuff repair, full-thickness tear, 164–170
 for rotator cuff repair, massive tear, 175–180
 for rotator cuff repair, partial-thickness tear, 154–157
 for shoulder arthroscopy, 241
 for stiff or frozen shoulder treatment, 137–139
 for subacromial decompression, 145–148
 for subscapularis tendon repair, 185–189
 for superior labrum anterior and posterior lesion treatment, 61–64
 for synovectomy, 54–55
 suture loop shuttle, for passage of a utility loop, 125–129
 suture plication, in multidirectional instability, 105–113
 thermal, for multidirectional instability management, 115–121

- transhumeral pin, for biceps tenodesis, 72
 - Tennessee slider/buntline hitch, 40–41
 - Tenotomy, of the long head of the biceps, 73
 - Tensile failure, resulting in rotator cuff partial-thickness tears, 152
 - Thermal capsulorrhaphy
 - for multidirectional instability treatment, 116–118
 - risk to the axillary nerve in, 32
 - Tissue quality, effect on complication rate, 238–239
 - Tissue reapproximation, to the glenoid margin, 239
 - Traction
 - apparatus for, in diagnostic shoulder arthroscopy, 4
 - beach chair positioning to avoid, 9
 - Transhumeral pin, in biceps tenodesis, 72, 76–77
 - Trauma
 - acromioclavicular damage due to, 199
 - rotator cuff damage due to, 151–153
 - Turbulence control, in arthroscopic procedures, 163
- V**
- Visualization
 - to facilitate knot tying, 36
 - of the glenohumeral joint, 4, 7
 - of a rotator cuff defect, 161–172
 - of the synovium and anterior labrum, 13
- W**
- Wissinger rod
 - for anterior portal establishment, 7, 17, 156
 - for antero-superior portal establishment, 137