

# SUBJECT INDEX

## A

Allograft prosthetic composite (APC) reconstruction 279  
Analgesia 315-317, 320, 321, 330  
Anesthesia 86, 100, 120, 151, 189, 192, 194-196, 198, 199, 207, 254, 287, 301, 315-317, 319-321, 330  
Angular deformity 120, 188, 221, 226  
Anteroposterior (AP) projection 21, 36  
Arthritis 13, 15, 39, 51, 58, 74, 85, 87, 88, 103, 105, 109, 127, 132, 134, 143, 159, 165, 173, 175, 177, 178, 180, 182, 183, 189, 190, 201, 209-212, 218, 222, 230, 231-240, 244, 245, 251, 253, 258-264, 266, 270, 276-278, 290  
Arthrography 21, 28, 35-38  
Arthroplasty 39, 44, 47, 48, 50, 51, 56, 59, 80, 84, 85, 87, 88, 96, 107, 109, 111, 112, 129-131, 133, 135, 136, 156, 157, 159-163, 165, 166, 173-175, 178, 183, 184, 194, 199, 201-210, 218, 223, 225, 230-232, 236-239, 241, 243, 245-249, 251-254, 256, 258-261  
Arthroscopic  
– anterior capsular release 194, 196, 214  
– posterior capsular release 213  
Articular contrastographies 21, 35  
Avanta implant 167, 169, 171, 173  
Axial view 22, 24  
Axillary block 316, 317, 321, 330

## B

Biceps muscle 8, 15, 296  
Biomechanics 1, 3, 5, 7, 9, 10, 11, 37, 62, 76, 77, 88, 103, 111-113, 123, 146, 147, 149, 173, 175, 184, 187, 260  
Biomechanics of the radial head 146  
Bipolar radial head 135, 143, 149-151, 153, 155-158, 174, 184, 252-254, 256-258, 269  
Brachial artery laceration 306

## C

Capsular contracture 68, 186, 187, 202, 212, 218, 315  
Cement removal and reinsertion 275  
Complex olecranon fracture 73

Complications of the coronoid fractures 95  
Computed tomography 21, 24, 37  
Congruent plates 64  
Coonrad-Morrey prosthesis 239, 245, 260, 264, 265, 268  
Coracobrachialis muscle 299-301, 303  
Coracoid process 318  
Coronoid fractures 46, 71, 72, 74, 80, 89-97, 107-109, 111, 129, 131, 136, 150, 166, 167, 177, 183  
Coupled and uncoupled elbow joint replacement 231  
CT arthrography 35, 36, 38  
Cubital projection 24

## D

Debridement arthroplasty 194, 199, 201-203, 210  
Delayed union and nonunion 200, 222, 230  
Dislocations 31, 47, 72, 73, 74, 80, 83, 84, 96, 103-107, 109-112, 125-127, 131-136, 165, 166, 172, 183, 184, 186, 209, 264, 305, 306, 308, 311-313, 325  
Distal humerus  
– anatomy 1  
– fractures 51, 56, 61, 63, 65, 67-69, 71, 187, 189, 207, 210, 221-223, 225-227, 229, 230, 240, 248, 249  
Dynamic external fixation 110

## E

Elbow  
– ankylosis 49, 201  
– braces 323  
– contracture 39, 40, 110, 165, 193, 196, 210, 212, 217-219, 230, 315, 329  
– dislocation 49, 92, 94, 96, 103-105, 107, 109, 113, 117, 118, 128, 129, 133, 135, 145, 155, 157, 159, 160, 162, 163, 166, 174, 175, 177, 179, 184, 186, 209, 226, 227, 305-309, 312, 323, 331  
– fracture dislocation 58, 105, 109, 110, 131  
– joint anatomy 113, 136  
– palsy 186, 299, 308, 312

- prosthesis 51, 201, 225, 237, 238, 251, 261, 262, 264-267, 270
  - prosthesis modularity 139, 141
  - replacement 137, 145, 149, 159, 167, 175, 231, 239, 251, 263, 273
  - surgical approaches 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 60
  - violated articular surfaces 196-199
  - Epithroclea fracture 61
  - Essex-Lopresti lesion 85, 113, 116, 117, 123-125, 127, 192
  - Evolve radial head prosthesis 159
- F**
- Failed elbow arthroplasty 273, 275, 277, 279
  - Fat pad sign 22, 37
  - Forearm
    - injuries 113
    - load distribution 130
  - Foreign-body tissue reactions 147
  - Fragmentation of the prosthesis 142, 146
- G**
- Global approach 58, 59, 196, 198, 202, 203
  - Gradient echo volume sequence 29
- H**
- Hemi elbow arthroplasty 207
  - Heterotopic ossification 44, 46, 58, 67, 68, 87, 97, 110, 111, 157, 163, 184-186, 190, 209, 211, 212, 214, 216-218, 295, 331
  - Hinged elbow external fixators 206
- I**
- Imaging elbow 21-39
  - Immobilization brace 324, 326
  - Impaction grafting 273, 276, 277, 279, 280
  - Inp ingement tests 18
  - Interosseous membrane 1, 7, 9, 113, 116, 126, 127, 130, 131, 133, 135, 136, 145, 148, 150, 167
  - Interposition arthroplasty 194, 201, 204, 205, 210, 251, 263, 264, 280
  - Ischemic hand 306
- J**
- Joint instability 30, 95, 117, 149, 160, 177, 202
- K**
- Kocher's approach 40-44, 56, 177, 201, 204
- L**
- Lateral
    - collateral ligaments 6, 22
      - complex 4, 10
      - injuries 99, 163
    - epicondylitis 15, 18, 19, 27, 32, 33, 37, 285, 294
    - oblique view 22, 23
  - Laterolateral (LL) projection 22
  - Ligaments repair 186
  - Linked joint replacement 231, 235
  - Longitudinal instability 123, 124, 132
- M**
- Magnetic resonance 21, 28, 36, 37, 38, 105, 136, 193, 296, 306, 308
  - Management of complex elbow dislocations 103, 105, 106, 110
  - Medial collateral ligaments complex 4
    - epicondylitis 14, 16, 18-20, 32, 37, 44
    - oblique view 22, 23
  - Median nerve entrapment 38, 307, 308, 312
  - Mobilization brace 324, 325, 328
  - Monteggia's lesions 113, 117-119
  - Mopyc prosthesis 141, 176
  - MR arthrography 35-38
  - Musculocutaneous nerve lesion 299, 302
- N**
- Neglected fracture of the distal humerus 221, 223, 229
  - Nerve injuries 119, 217, 218, 293, 295, 296, 303, 309, 310, 312, 313, 320
    - tunnel syndrome 281, 283, 285, 288, 290, 292, 299, 300
- O**
- Olecranon
    - fractures fixation 76, 77, 79
    - osteotomy 48, 54-57, 61, 63, 75, 207, 246
  - ORIF 44, 51, 84, 87, 117, 121, 159, 181, 195, 200, 222, 223, 225, 229, 230, 244
  - Osteoarticular incongruity 185, 187
- P**
- Plain radiography 21
  - Polyethylene 139, 142, 143, 151, 161, 168, 238, 251, 253, 260, 261, 264, 265, 269, 271
  - Posterior exposure 39, 47, 48, 58, 96, 249, 262, 271, 280
  - Posterolateral and lateral exposure 39
  - Posteromedial and medial exposure 44
  - Postraumatic arthrosis 263-269
  - Prosthesis classification 137
  - Provocation tests 13, 14, 16, 18, 19
  - Proximal radio-ulnar joint 115, 126, 190
  - Pyrocarbon head prosthesis implant 175, 183
- R**
- Radial head 137, 145, 160, 176
    - capitellum view 24
    - excision 9, 85, 99, 100, 104, 107, 111, 127-136, 156, 157, 159, 160, 162, 165, 166, 175, 252
    - fracture 19, 34, 43, 72, 83-86, 90, 92, 107, 109, 111, 112, 126, 127, 131-134, 136, 137, 150, 151, 159, 160, 164, 165, 167, 175, 179, 180, 184, 326
    - prosthetic design 140, 167, 251, 261

- replacement 84, 85, 87, 88, 92, 128-136, 143, 148, 150, 157, 159, 160, 162-166, 168, 169, 172, 175, 177, 179, 181, 183, 184, 251-253, 257, 258, 260, 261, 326
- Radial nerve palsy 38, 265
- Radio-capitellar joint 103, 130, 196, 256
- Radio-frequency coil 28
- Radius fractures 116, 117
- Reimplantation revision 273, 274
- Relaxation
  - times T1 28
  - times T2 28
- Restriction brace 324-326
- Rheumatoid arthritis 13, 51, 134, 159, 173, 175, 177, 178, 180, 182, 183, 209, 212, 231-238, 240, 244, 245, 251, 253, 258-264, 266, 270, 276-278, 290
- S**
- Silastic 94, 136, 139, 142, 145, 147-149, 165, 167, 168, 172-174, 183, 184, 295
- Spin echo sequences 29
- Stiffness 14, 19, 21, 25, 29, 44, 50, 61, 73-75, 78, 87, 88, 90-92, 94, 96, 110, 111, 128-130, 149, 162, 175, 185-203, 205, 207-209, 211, 212, 218, 221-223, 225, 229, 230, 239, 245, 253, 263, 273, 315, 316, 320, 323, 324, 326-331
- STIR sequence 29
- Strut grafting 273, 277
- Supracondylar fractures 34, 50, 51, 66, 198, 310, 311
- Swanson radial head prosthesis 145, 147
- T**
- Total elbow arthroplasty 47, 48, 50, 56, 59, 199, 201, 207, 209, 210, 225, 231, 236-239, 241, 243, 245, 247-249, 251-253, 258-263, 265-267, 269-271, 273, 277, 280
- U**
- Ulnar neuropathy 64, 102, 150, 198, 214, 217, 219, 260, 265, 290, 295-297, 309
- Ulnohumeral joint 10, 73, 75, 78, 92, 94-96, 261, 262, 264
- Ultrasonography 21, 27, 133
- Unlinked joint replacement 251
- V**
- Vascular injury 305
- Vitallium radial head prosthesis 137, 142, 167, 172