

Anatomical Area	Patient Group	Differentiated in Diagnosis	Pathology	Differentiated Conservative Therapy	Differentiated Operative Therapy	Basic Science
Shoulder Elbow	Pediatric Adolescent Adult Geriatric	Imaging Methods Specialist laboratory medicine Puncture an Biopsy Investigation techniques	Infection Nerve Pathology Tumors Sports Injuries Trauma Developmental Disorders  Inherent Growth associated Caiused by medical interventions Inflammatory Systematic diseases Caused by bone metabolism Degenerative	Physical Therapy (Manual Therapy, Ergo Therapy....) Immobilisation Orthoses, Prosthesis etc. Pain Relief Therapy Conservative fracture treatment	Arthroscopy Reconstructive procedures Osteotomies Osteosyntheses Resections Arthroplasty Soft Tissues (Tendons/Nerves/Vessels..) Amputations Arthrodesis	Anatomy Approaches Bimechanics Genetics Embyology

Imaging methods	Specialist laboratory medicine	Puncture an Biopsy	Investigation techniques
Sonographic	Blood parameters	Histology	Arthroscopy
Nuclear medicine	Blood cultures	Synovia analysis	Nanoscope
Radiological		Microbiology	Open surgical exploration
MRI/ MR Arthrography			
CT/ CT Arthrography			
DEXA			
Szintigraphy			

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Infection	Nerve Pathology	Tumors	Sports Injuries	Trauma	Developmental Disorders	Inherent/ Growth associated	Caused by medical interventions	Inflammatory/ Systemic diseases/ Bone metabolism	Degenerative
Primary/Secondary Empyema Prosthetic Infection Infection of Osteosynthesis Osteomyelitis	Parsonage Turner Syndrome Cervical Spine Pathology Plexus brachialis lesion Compression N. supraspinatus Neuralgic Amyotrophy Axillary Nerve damage	Osteoidosteoma Primary malignant Tumors Metastatic Cancer Benign Soft Tissue Lesions Enchondroma Osteosarcoma NOF	Anterior Instability Posterior instability SLAP Lesions Cartilage Damage Weightlifters Shoulder PSGI Biceps Pathologies AC-Joint Injuries Muscle/ Tendon injuries SC -joint Injuries	Proximal Humerus Fractures Glenoid Fractures Dislocation Fractures Scapula Fractures Clavicle Fractures	Multidirectional Instability Erb Palsy Scapula alata Scapula dyskinesia	Dysplasia Stiffness Osetochondrosis dissecans	Cartilage damage Infection Osteonecrosis Non-Unions	Rheumatoid diseases PVNS Synovialitis Bursitis	Osteoarthritis Loose bodies Stiffness Chondromalazia

<b>Infection</b>	<b>Nerve Pathology</b>	<b>Tumors</b>	<b>Sports Injuries</b>	<b>Trauma</b>	<b>Developmental Disorders</b>	<b>Inherent/ Growth associated</b>	<b>Caused by medical interventions</b>	<b>Inflammatory/ Systemic diseases/ Bone metabolism</b>	<b>Degenerative</b>
Primary/Secondary Empyema	Ulnar Nerve Syndrome	Osteoidosteoma	Ligamentous Dislocation	Radial Head Fracture Isolated Coronoid Fracture / PMRI	Chronic Radial Head Dislocation	Dysplasia	Cartilage damage	Rheumatoid diseases	Osteoarthritis
Prosthetic Infection Infection of Osteosynthesis Osteomyelitis	Snypping Ulnaris Syndrome Radial Tunnel Syndrome Pronator Teres Syndrome	Primary malignant Tumors Meatastatic Cancer Benign Soft Tissue Lesions	Chronic Valgus Instability Osteochondral Lesion	Dislocation Fracture Monteggia Essex-Lopresti Distal humerus fractures  Radial head/neck fractures  Proximal ulna fractures Dislocations and fracture dislocations on the elbow	Cubitus Varus Radioulnar Synostosis	Varus/ Valgus malalginement Radioulnar synostosis Osetochondrosis dissecnas	Infection Osteonecrosis Non-Unions	PVNS Synovialitis Bursitis	Loose bodies Stiffness Chondromalazia

<b>Physical Therapy</b>	<b>Immobilisation/ Orthoses, Prosthesis etc.</b>	<b>Pain Relief Therapy</b>	<b>Conservative fracture treatment</b>
Physiotherapy	Splints	Systemic pain therapy (oral)	Immobilization
Ergo therapy	Orthoses	Systemic pain therapy (intravenous)	Physiotherapy
Massage	Casts	Injections	
Manual therapy	Braces	Pain catheters	
Lymph drainage			

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Arthroscopy	Reconstructive procedures	Osteotomies	Osteosyntheses	Resections	Endoprosthesis	Soft Tissues (Tendons/Nerves/Vessels..)	Amputations	Arthrodesis
Diagnostic arthroscopy	Open fracture treatment	Corretive Osteotomie prox. humerus	Proximal humerus fractures	AC-Joint resection	Anatomic Total shoulder arthroplasty	Direct ligament repair	Arm amputation	Glenohumeral arthrodesis
Ligament repair	Open ligament repair	Corretive Osteotomie dist. humerus	Glenoid fractures	SC-Joint resection Humeral Head resection	Hemiarthroplasty	Tendon Repair	Shoulder exarticulation	
Tendon repair	Open tendon repair	Corrective osteotomie Glenoid	Scapula fractures		Reverse shoulder arthroplasty	Bankart repair		
Removal of loose bodies	Open stabilization procedures		Clavicle fractures		Resurfacing arthroplasty	Capsular shift		
Cartilage treatment	Open arthrolysis		Dislocation fractures		Partial resurfacing arthroplasty	Tendon transfer		
Removal of osteophytes								
Arthrolysis								
Synovectomy								
Fracture treatment								



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Diagnostic arthroscopy	Open fracture treatment	Corrective Osteotomy humerus	Distal humerus fractures	Joint resection Radial head resection	Total elbow arthroplasty	Direct ligament repair	Forearm amputauiion	Elbow arthrodesis
Ligament repair	Open ligament repair	Corrective osteotomie ulna	Ulnar fractures		Hemiarthroplasty	Ligment tansfer	Elbow exarticulation	
Tendon repair	Open tendon repair	Corrective osteotomie radius	Radius fractures Complex elbow fractures		Radial head replaement	Internal bracing	Distal humerus amputation	
Removal of loose bodies	Open stabilization procedures		Dislocation fractures		Interposition arthropöasty	Direct tendon repair		
Cartilage treatment	Open arthrolysis					Tendon transfer		
Removal of osteophytes								
Arthrolysis								
Synovectomy								
Fracture treatment								

<b>Anatomy</b>	<b>Surgical approaches</b>	<b>Shoulder Biomechanics</b>	<b>Embryology/ Growth</b>	<b>Genetic</b>
Functional anatomy of the glenohumeral joint	Arthroscopic portals and approaches	Basic biomechanics	Glenohumeral embryology	Clinical genetics
Functional anatomy of the rotator cuff and LHB	Deltopectoral approach	Shoulder kinematics		
Functional anatomy of the subacromial space	Supero-lateral approach	Glenohumeral stability		
Functional anatomy of the clavicle and AC & SC joint	Posterior approach			
Anatomy of the proximal humerus	Combined approaches			
Anatomy of the scapula				

<b>Anatomy</b>	<b>Surgical approaches</b>	<b>Elbow Biomechanics</b>	<b>Embryology/ Growth</b>	<b>Genetic</b>
Functional anatomy of the elbow joint	Arthroscopic portals and approaches	Basic biomechanics	Elbow embryology	Clinical genetics
Functional anatomy of the elbow stabilisatos	Lateral approach	Elbow kinematics		
Functional anatomy of the Forearm	Medial approach	Elbow stability		
	Dorsal approach			
	Combined approaches			
	Ventral approach			