

# Postgraduate Diploma

## Scapulothoracic Joint Surgery





## Postgraduate Diploma Scapulothoracic Joint Surgery

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-scapulothoracic-joint-surgery](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-scapulothoracic-joint-surgery)

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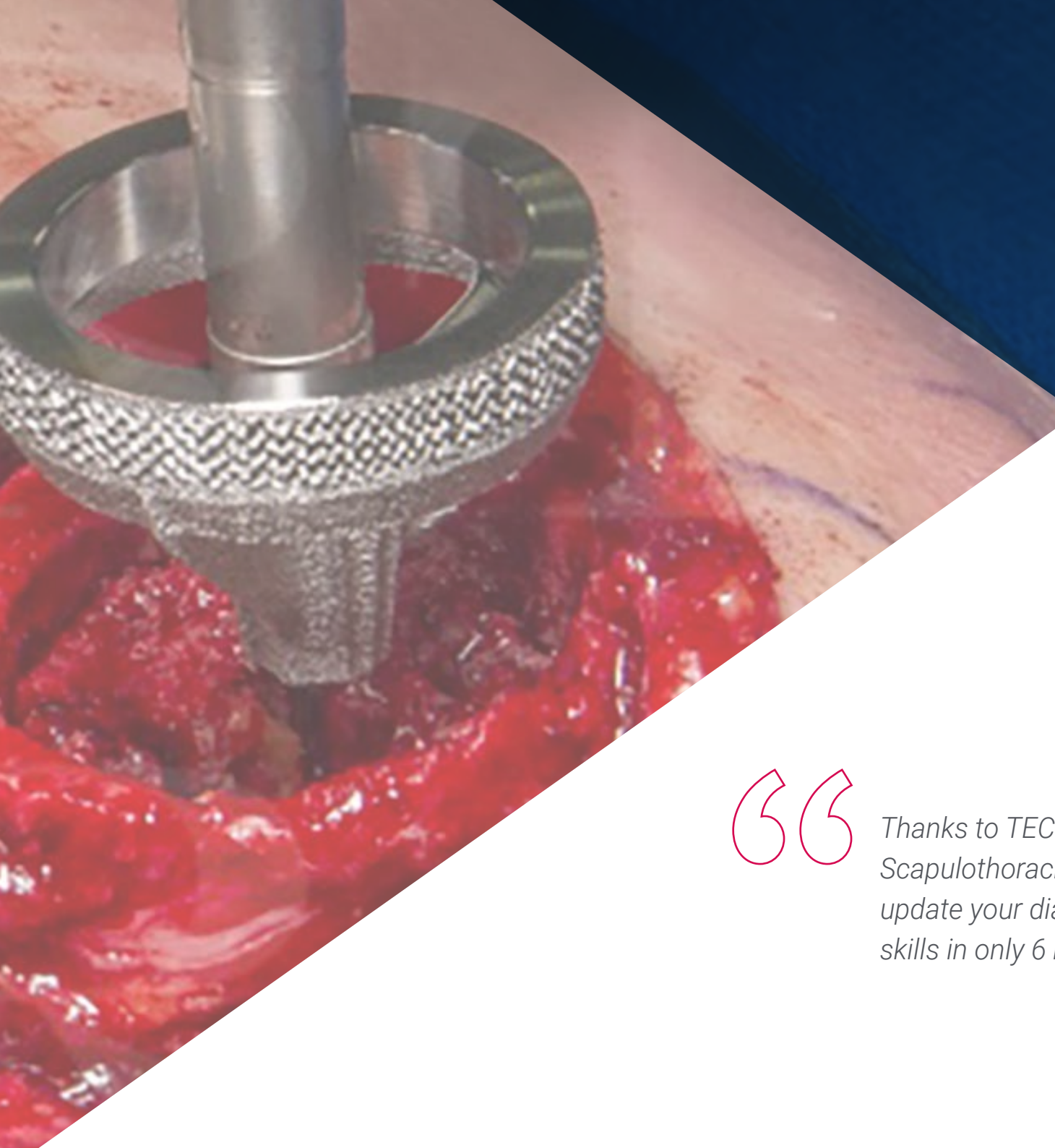
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# 01

# Introduction

Scapulothoracic Joint Surgery can present challenges due to the complex anatomy of the scapula and its relationship to other bony and muscular structures. Therefore, fractures can be difficult to reduce and stabilize surgically. However, advances in intervention techniques have made it possible to optimize treatments. For this reason, TECH has developed this 100% online program, which provides the professional with an update on the biomechanics of the Scapula and Scapulothoracic Joint, and the conservative treatment of Proximal Humerus fractures. All this, in addition, through a content prepared by the best specialists in Shoulder Surgery and with the most innovative didactic material of the current academic panorama.





“

*Thanks to TECH you will be up to date in Scapulothoracic Joint Surgery and you will update your diagnostic and therapeutic skills in only 6 months"*

Fractures of the Scapula represent a significant challenge in Scapulothoracic Joint Surgery due to the complexity of their location and shape. Perfect alignment of fractured fragments can be complicated due to multiple angles and edges, and the risk of further injury to vital structures requires careful management. Therefore, medical updating in this field is crucial, as it allows surgeons to apply updated surgical techniques, advanced reduction and stabilization approaches and improved postoperative rehabilitation guidelines. This constant updating improves the efficiency and safety of the treatment, achieving optimal results for patients.

Given this reality, TECH has created this Postgraduate Diploma, which will allow the specialist to enjoy an excellent update on the Scapulothoracic Joint Surgery. Thus, during 6 months the professional will deepen in the Biomechanics of the Scapula and the Scapulothoracic Joint, the abnormal mobility of the scapulothoracic joint and scapulothoracic pathology associated with other processes. He will also delve into Acute and Chronic Acromioclavicular dislocation, complications of Acromioclavicular Dislocation and the Long Portion of the Biceps.

All this, in addition, through a 100% online methodology, which provides the specialist with the opportunity to reconcile his daily responsibilities with a quality university program. In addition, the program integrates the Relearning method, allowing you to explore in detail the essential elements of the curriculum in a much easier way. All this compiled in a series of multimedia resources such as videos of real case studies, which will be hosted in an online library that you will be able to access at any time of the day, without restrictions.

This **Postgraduate Diploma in Scapulothoracic Joint Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by expert orthopedic surgeons
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*You will diagnose and treat abnormal mobility of the Scapulothoracic Joint, with this Postgraduate Diploma that TECH has for you"*

“

*Delve from the comfort of your own home into the main challenges of dealing with Pectoralis Minor Hyperactivation Syndrome”*

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*You will deepen in the most advanced techniques for the treatment of Anterior Serratus Palsy thanks to this 100% online program.*

*Search from your computer with internet connection on the diagnostic procedures and treatments for Trapezius Palsy.*



# 02

# Objectives

The main purpose of this program is to provide the physician with the most updated concepts and techniques related to Scapulothoracic Joint Surgery. In this way, you will have the opportunity to delve into the most effective approaches to perform this surgical procedure and thus improve the medical care and clinical outcomes of patients affected by this type of injury. All this, 100% online and with the ease of accessing the educational material from any device with an internet connection.





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*You will manage Axillary Nerve Neuropathy and improve your skills in the diagnosis and treatment of this pathology”*



## General Objectives

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- Analyze the macroscopic anatomy of the shoulder
- Determine the different approaches to open surgery
- Introducing the arthroscopic portals of shoulder surgery
- Delve into new technologies in anatomy and shoulder surgery
- Examine the usefulness of different radiological techniques in the diagnosis of certain shoulder pathologies
- Define ultrasound scans as a treatment technique in some shoulder pathologies
- Expose the usefulness of nuclear medicine in shoulder pathology
- Compile the different objective, subjective and quality of life scales
- Show embryology of the shoulder
- Grouping of shoulder pathologies affecting children: dysplasias, fractures and other acquired pathologies
- Development of rheumatologic, tumor and infectious diseases
- Deepening the role of anesthesia in the shoulder





## Specific Objectives

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### Module 1. Scapulothoracic. Neurological Injuries

- ♦ Delve into in the anatomy of the scapulothoracic joint
- ♦ Analyze the pectoralis minor hyperactivation syndrome
- ♦ Explain the relationship between the involvement of the serratus anterior nerve and the scapulothoracic joint
- ♦ Present the relationship between trapezius nerve involvement and the scapulothoracic joint
- ♦ Investigate axillary nerve neuropathy, suprascapular nerve neuropathy and define the quadrilateral space syndrome
- ♦ Explore pathologies associated with other processes affecting the scapulothoracic joint

### Module 2. Acromioclavicular, sternoclavicular and long portion of the

#### long portion of the biceps

- ♦ Delve into the anatomy of the acromioclavicular and sternoclavicular joints
- ♦ Analyze the pathology of the sternoclavicular joint
- ♦ Explain the different therapeutic techniques for acute acromioclavicular dislocation
- ♦ Develop therapeutic options after chronic acromioclavicular dislocation
- ♦ Investigate the complications of acromioclavicular dislocation
- ♦ Examine the anatomy of the long portion of the biceps and anatomical variants

### Module 3. Scapular Waist Fractures

- ♦ Address the most commonly used classifications of Proximal Humerus fractures
- ♦ Establish the indications for conservative treatment of proximal humerus fractures and the indications for surgical treatment of proximal humerus fractures: osteosynthesis and arthroplasty
- ♦ Examine the therapeutic indications in dislocation fracture and tuberosity avulsion
- ♦ Analyze the possible complications and sequelae of proximal humerus fractures
- ♦ Determine the classifications of clavicle fractures and indications for conservative treatment
- ♦ Develop the indications and techniques of osteosynthesis in the surgical treatment of clavicle fractures
- ♦ Specify the classifications of scapula fractures and the indications for conservative treatment



*You will implement state-of-the-art techniques in the treatment of Suprascapular Nerve Neuropathy and Quadrilateral Space Syndrome"*

03

# Course Management

In order to maintain the excellence that characterizes TECH, this program has a faculty made up of recognized experts in the field of Orthopedics and Traumatology, with emphasis on Shoulder Surgery and other joints. These professionals, who play an active role in well-known hospitals, have extensive skills in the management of joint disorders, surgical procedures and rehabilitation therapy. In addition, given its proximity, the graduate will be able to resolve any questions he/she may have about the content of this program.





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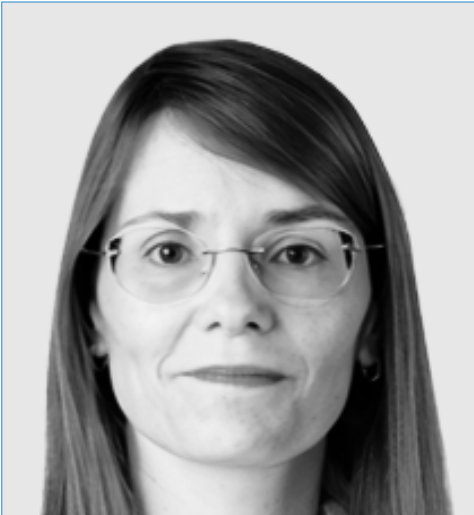
*You will have at your fingertips the most innovative tools to expand your knowledge in scapulothoracic pathology associated with other processes”*

## Management



### Dr. Vanesa López Fernández

- ♦ Attending Doctor of Orthopedic Surgery and Traumatology, Arthroscopy Unit at the Hospital Rey Juan Carlos
- ♦ Attending Doctor of Orthopedic Surgery and Traumatology at the Jiménez Díaz Foundation Hospital
- ♦ Clinical and research fellowship in shoulder, hand and upper limb surgery at the Clinique Generale d'Annecy
- ♦ Clinical and research fellowship in shoulder and elbow surgery under the supervision of Dr. Emilio Calvo and Dr. Foruria at the Jiménez Díaz Foundation
- ♦ Professor and member of the scientific committee of the CURSOCOT for the training of residents and attendings (recertification courses) in Orthopedic Surgery and Traumatology
- ♦ Honorary Professor of Orthopedic Surgery and Traumatology Universidad Rey Juan Carlos
- ♦ Dr. in Medicine from the University of Santiago de Compostela with a doctoral thesis entitled "Effect of intra-articular hyaluronic acid in experimental synovitis"
- ♦ Degree in Medicine from the Santiago de Compostela University
- ♦ Master's Degree in Orthopedic Surgery and Traumatology from San Pablo CEU University
- ♦ Postgraduate Diploma in Orthopedic Surgery and Upper Limb Traumatology from San Pablo CEU University
- ♦ Postgraduate Diploma in Orthopedic Surgery and Traumatology of the Pelvis, Hip and Pediatric Traumatology from San Pablo CEU University
- ♦ Postgraduate Diploma in Orthopedic Surgery and Traumatology of the knee, ankle and foot by San Pablo CEU University
- ♦ Postgraduate Diploma in Orthopedic Surgery and Traumatology of the Spine, Tumors and Infections, San Pablo CEU University



### Dr. Ana Belén Fernández Cortina

- ◆ Traumatologist at Cosaga Hospital
- ◆ Traumatologist (Shoulder Visiting Fellow) at the Massachusetts General Hospital
- ◆ Traumatologist at the Ourense University Hospital Complex
- ◆ Traumatologist at Gambo General Rural Hospital
- ◆ Journal Clinical Epidemiology Reviewer Affiliation: Clinical epidemiology
- ◆ Scientific Journal Medical Science Melville USA Reviewer
- ◆ Dr. in Medicine and Surgery from the Complutense University of Madrid
- ◆ Specialist in Orthopedic and Trauma Surgery
- ◆ Degree in Medicine and Surgery from the University of Santiago de Compostela
- ◆ Member of: Spanish Association of Orthopedic Surgery and Traumatology (SECOT), Spanish Society of Shoulder and Elbow Surgery (SEHC), Spanish Association of Arthroscopy (AEA), Spanish Society of Sports Traumatology (SETRADE)

## Professors

### Dr. Daniel Rojas Castillo

- ◆ Staff of the Shoulder and Elbow Team of the Regional Hospital of Talca
- ◆ Staff of the Clínica Shoulder and Elbow Team
- ◆ Specialist in Orthopedic Surgery and Traumatology, Universidad de Concepción
- ◆ Travelling Fellowship by the German and Latin American Shoulder and Elbow Society
- ◆ Observership in the Department of Orthopedics at Thomas Jefferson University
- ◆ Master's Degree in Shoulder Pathology International University of Andalusia
- ◆ Medical Surgeon from the University of Cuenca
- ◆ Member of: Chilean Society of Orthopedics and Traumatology, Latin American Shoulder and Elbow Society, Scientific Committee of the Latin American Shoulder and Elbow Congress, Latin American Society of Arthroscopy, Knee and Sports Medicine, International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine

#### Dr. Rui Claro

- ♦ Chief of the Shoulder Unit of the University Hospital Center of Santo António
- ♦ Orthopedic Specialist in the Department of Orthopedics of CHUdSA
- ♦ Coordinator of the Shoulder and Elbow Section of the Portuguese Society of Orthopedics and Traumatology
- ♦ Lecturer in the discipline of Orthopedics at ICBAS at the University of Porto
- ♦ Degree in Medicine from the University of Oporto
- ♦ Member of: President of the Portuguese Shoulder and Elbow Society, Portuguese National Delegate of the European Society of Shoulder and Elbow Surgery (SECEC-ESSSE), Member of the Registry Committee of the SECEC-ESSSE, Member of the Portuguese Society of Orthopedics and Traumatology (SPOT), Member of the SECEC-ESSSE, Member of the SPOC, Member of the SPOT, Member of the Portuguese Medical Society

#### Dr. Diana Morcillo-Barrenechea

- ♦ Assistant Doctor in the Traumatology and Orthopedic Surgery Service at Ibermutua
- ♦ Assistant Doctor in the Shoulder and Elbow Unit of the Traumatology and Orthopedic Surgery Department at the Jiménez Díaz Foundation
- ♦ Volunteering in the Traumatology Service as support after earthquake in Nepal
- ♦ Volunteering with Doctors of the World in the Traumatology and Orthopedic Surgery Service in Palestine
- ♦ Specialist in Orthopedic and Trauma Surgery
- ♦ Degree in Medicine from the University of Valladolid
- ♦ Recognition of Research Sufficiency in the area of Microbiology at the University of Valladolid
- ♦ Member of: Spanish Society of Orthopedic Surgery and Traumatology, Spanish Society of Shoulder and Elbow Surgery, Spanish Association of Arthroscopy

#### Dr. Fernando Amor Gámez

- ♦ Assistant Doctor in the Rehabilitation Service at the Osteoarticular Pathology Unit of the Rey Juan Carlos University Hospital
- ♦ Specialist in non-surgical pathology at the Hip Unit of University Clinic of Navarra based in Madrid
- ♦ Professional Master's Degree in Musculoskeletal Ultrasound and Interventional Ultrasound by the San Pablo Andalucía CEU Foundation
- ♦ Master's Degree in Clinical Medicine from the Camilo José Cela University
- ♦ Degree in Medicine from Universidad Rey Juan Carlos

#### Dr. Óscar Alberto Vásquez Gamarra

- ♦ Head of the Upper Limb Unit at the Lima Este Vitarte Hospital
- ♦ Attending Doctor of Traumatology at the Jesús del Norte Clinic
- ♦ Attending Doctor in Traumatology at the Santa María del Sur Clinic
- ♦ Traumatology Attending Doctor at the C.M.I. Dr. Enrique Martin Altuna
- ♦ Attending Doctor in the Emergency Assisted Transportation System-STAE
- ♦ Attending Doctor at C.M.I.:Dr. Enrique Martin Altuna
- ♦ Attending Doctor at the Policlínico María Graña O, Surco
- ♦ Professor, Faculty of Human Medicine, Piura University
- ♦ Doctor in Orthopedics and Traumatology, Ricardo Palma University
- ♦ Master's Degree in Hand and Upper Extremity Surgery from the Autonomous University of Barcelona
- ♦ Surgeon from the University of Mendoza
- ♦ Diploma in Medical Emergencies from San Luis Gonzaga University
- ♦ Diploma in Quality Management of Health Services from the Universidad Nacional Daniel Alcides Carrión





#### **Dr. Nuria Álvarez Benito**

- ◆ Assistant Doctor of Orthopedic Surgery and Traumatology at the University Hospital of the Canary Islands
- ◆ Doctor in the Rehabilitation Service at the Jiménez Díaz Foundation University Hospital
- ◆ Doctor at the Children's Traumatology and Orthopedics Unit at the CHU Lapeyronie de Montpellier
- ◆ Doctor in the Musculoskeletal Tumors Unit and Vascular Surgery and Plastic Surgery Services at the La Paz University Hospital
- ◆ Doctor in the Neurosurgery Service and Spine Unit of the COT service at the Gregorio Marañón University Hospital
- ◆ Lecturer in the program of Microsurgery for COT Residents
- ◆ Specialist Doctor in Orthopedic Surgery and Traumatology
- ◆ Master's Degree in Shoulder Pathology from the International University of Andalusia (UIA)
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Member of: Spanish Society of Orthopedic Surgery and Traumatology, Andalusian Society of Traumatology and Orthopedics

#### **Dr. Gonzalo de Cabo Tejerina**

- ◆ Sports Doctor at Olympia Clinic
- ◆ Head of the Arthroscopy and Upper Limb Unit at the Rey Juan Carlos Hospital in Móstoles
- ◆ Stryker and Depuy Mitek International Medical Consultant
- ◆ Honorary Professor at the Universidad Rey Juan Carlos
- ◆ Degree in Medicine from Universidad Complutense Madrid
- ◆ Diploma of Advanced Studies from Universidad Complutense Madrid

### Dr. Juan Miguel Valles Salima

- ♦ Attending Doctor Specialist, Shoulder and Elbow Clinic, Orthopedic Children's Hospital
- ♦ Adherent University Professor of Universidad de Oriente
- ♦ Professor, Fellowship in Shoulder and Elbow Surgery, Children's Orthopedic Hospital
- ♦ Specialist in Orthopedic Surgery and Traumatology, Central University of Venezuela
- ♦ Surgeon from the University of Zulia
- ♦ Shoulder and Elbow Fellowship by the Children's Orthopaedic Hospital
- ♦ Member of: Venezuelan Committee of Shoulder and Elbow Surgery, Vice President of the Latin American Shoulder and Elbow Society

### Dr. Luis Ariel Texidor Roberts

- ♦ Specialist in Orthopedics and Traumatology at the National Institute of Traumatology Dr. Manninger Jenő Baleseti Központ
- ♦ General Doctor at the Faculty of Medicine of the University of Medical Sciences of Havana Calixto García Iñiguez
- ♦ Medical specialist in Orthopedic Surgery and Traumatology by the Ministry of Health
- ♦ Doctor of Medicine by the Ministry of Education, Culture and Sports
- ♦ Specialist in Orthopedics and Traumatology from the University of Semmelweis
- ♦ Specialist in General Comprehensive Medicine from the "Isla de la Juventud" University of Medical Sciences of Havana"
- ♦ Specialist in Orthopedics and Traumatology at ScOIC Frank País and Hospital Militar Central Dr. Luis Díaz Soto
- ♦ Master's Degree in Hand and Upper Extremity Surgery from the Autonomous University of Barcelona
- ♦ General Practitioner from the University of Semmelweis
- ♦ Member of: Barcelona College of Doctors

### Dr. Eduardo González Hernández

- ♦ Hand Surgery Specialist
- ♦ Fellow for the American Academy of Orthopaedic Surgeons
- ♦ Fellow Microsurgery at Chang Gung Memorial Hospital

- ♦ Master's Degree from the University of Texas
- ♦ Hand Surgeon by the Hand Center of San Antonio
- ♦ Hand Surgeon, Plastic and Reconstructive Surgery, Stanford University Medical Center
- ♦ Medical Degree from the University of Texas
- ♦ Diploma by the *American Board of Orthopaedic Surgeons*
- ♦ Member of: *American Academy of Orthopaedic Surgeons, American Association of Hand Surgeons, AOA, Medical Honor Society, Board of Directors of the American Fracture Association, Former President of the Hand Federation, Mexican Society of Hand Surgery of the West, Argentine Association of Hand Surgery*

### Dr. Isabel García Bullón

- ♦ Doctor specializing in Orthopedic Surgery and Traumatology at Ibermutua Central Services
- ♦ Specialist Doctor at Dr. Palazón S.A.P. Clinic (La Luz Clinic)
- ♦ Head of the Hand and Wrist Surgery Unit at Severo Ochoa University Hospital
- ♦ Specialist Doctor in Orthopedic Surgery and Traumatology, University Hospital Severo Ochoa
- ♦ Specialist Physician in Fields at the Gregorio Marañón General University Hospital
- ♦ PhD in Medicine from the Complutense University of Madrid
- ♦ Degree in Medicine from the Complutense University of Madrid

### Dr. Marta Galván Ortiz de Urbina

- ♦ Doctor in the Rehabilitation Service at the Rey Juan Carlos University Hospital
- ♦ Doctor in the Rehabilitation Service at the Jiménez Díaz Foundation University Hospital
- ♦ Doctor in the Pelvic Floor Unit and Rehabilitation Service at the 12 de Octubre University Hospital
- ♦ Doctor in the Rehabilitation Service at the State Reference Center for Brain Injury Care

- ♦ Doctor in the Children's Rehabilitation Service at the Gregorio Marañón University General Hospital
- ♦ Doctor in the Interventional Rehabilitation Unit and the Rehabilitation Service at the Gómez Ulla Hospital
- ♦ Doctor in the Rehabilitation Service at the National Hospital for Paraplegics
- ♦ Doctor in the Cardiac Rehabilitation Unit and the Cardiology and Rehabilitation Service at the Ramón y Cajal University Hospital
- ♦ Specialist in Physical Medicine and Rehabilitation at the San Carlos de Madrid University Hospital Clinic
- ♦ Clinical Teaching Collaborator at the Madrid Complutense University.
- ♦ Honorary Tutor of the Department of Medical Specialties and Public Health of the Rey Juan Carlos University
- ♦ Master's Degree in Medical Assessment of Disability and Bodily Injury for Social Protection by UNED (Spanish National University of Distance Education)
- ♦ Master's Degree in Clinical Phoniatics from CEU San Pablo University
- ♦ Master's Degree in Electrotherapy in Rehabilitating Medicine at the Technological University TECH
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid

#### **Dr. Gía Rodríguez Vaquero**

- ♦ Chief of Section of the Arthroscopy Unit at Rey Juan Carlos Hospital
- ♦ Shoulder and Elbow Doctor Specialist at Valle de Henares Hospital
- ♦ Shoulder and Elbow Specialist at Quirón San José Hospital
- ♦ Shoulder and elbow specialist at Villalba General Hospital
- ♦ Adjunct Doctor of the Jiménez Diaz Foundation
- ♦ Assistant Doctor at Asepeyo Hospital
- ♦ Assistant Doctor at Nisa Aravaca Hospital

- ♦ Responsible for Patient Safety at Villalba General Hospital
- ♦ Teaching and Research Coordinator of the General Hospital of Villalba
- ♦ Professor of Nursing at the Madrid Autonomous University
- ♦ Professor of Traumatology at the Faculty of Medicine, Alfonso X el Sabio University
- ♦ Master's Degree in Orthopedic Surgery and Traumatology
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Member of: PEACS (Professional Education Advisory Committee Spain) of Smith and Nephew, Vocal of Training of the Spanish Association of Arthroscopy, Secretary of the Matritense Society of Orthopedic Surgery and Traumatology (SOMACOT)

#### **Dr. Julia Serra**

- ♦ Orthopedic Surgery and Traumatology Doctor at the Hospital de la Santa Creu i Sant Pau
- ♦ Resident Doctor at the CAP Garrotxa during the COVID-19 pandemic
- ♦ Doctor AT Mútua Asepeyo at the Badalona health care center
- ♦ Degree in Medicine, with mention in Clinical Surgery from the Autonomous University of Barcelona

#### **Dr. Salcuta Chalco, Abraham**

- ♦ Traumatology and Orthopedics Physician at Nuestra Señora de La Paz Hospital
- ♦ Expert in Sports Knee Injuries
- ♦ Expert in Reconstructive and Orthoplastic Surgery
- ♦ Expert in shoulder and upper limb infiltrations
- ♦ Specialist in Orthopedics and Traumatology
- ♦ Medical Degree from the Universidad Mayor de San Andrés

### **Dr. Víctor Naula**

- ♦ Director of the Integral Miniinvasive & Arthroscopic Center
- ♦ Director of the Comprehensive Shoulder Arthroscopic Improvement Center
- ♦ Chief of the Traumatology and Orthopedics Service of the Clínica María Auxiliadora
- ♦ Associate Doctor at San Jacinto Orthopedic and Traumatology Department
- ♦ Doctor of Medicine and Surgery
- ♦ Specialist in Traumatology and Orthopedics
- ♦ Shoulder and Knee Arthroscopic and Open Shoulder and Knee Surgeon
- ♦ Bachelor of Medicine, State University of Medical Sciences
- ♦ Fellowship Hospital San Gerardo of Monza
- ♦ Fellowship Shoulder Surgery Center Forli
- ♦ Fellowship Arthroscopic and Open Shoulder Surgery
- ♦ Member of: Italian Arthroscopy Society, Ecuadorian Arthroscopy Group, Latin American Society of Arthroscopy, Knee and Sports, Guayas Medical and Surgical Society, American Academy of Orthopaedic Surgeons, Ecuadorian Society of Orthopedics and Traumatology

### **Dr. Marta Navarro Bosch**

- ♦ Specialist in Orthopedic Surgery and Traumatology, Shoulder and Elbow Unit, La Fe University Hospital
- ♦ Specialist in Orthopedic Surgery and Traumatology at Casa de Salud Hospital
- ♦ Specialist in Orthopedic Surgery and Traumatology at the Malva-Rosa Hospital
- ♦ Traumatology and Orthopedic Surgery teacher at Pre-Mir Academy
- ♦ Teacher in the National Plan of Shoulder and Elbow Surgery of the SECHC
- ♦ Degree in Medicine and Surgery from the University of Valencia

### **Dr. Sergio Andrés Jaramillo Pérez**

- ♦ Traumatologist at Mutua El Rosario Universal Hospital
- ♦ Assistant Doctor in the Traumatology Service of the Hospital Rey Juan Carlos
- ♦ Traumatologist at Hospital QuironSur Alcorcón
- ♦ Traumatologist at the Ibermedic Clinics in Móstoles and Villaviciosa de Odon
- ♦ Surgeon at the Orthopedic and Traumatology Unit of La Princesa University Hospital
- ♦ Doctor of the Emergency and Hospitalization Service at the San Juan de Dios Clinic
- ♦ Emergency Department Doctor at the El Rosario Clinic
- ♦ Degree in Medicine from the San Martín University Foundation
- ♦ Member of: Spanish Society of Orthopedic Surgery and Traumatology (SECOT), Spanish Association of Arthroscopy (AEA), Spanish Society of Orthopedic Surgery and Traumatology (SECOT)

### **Dr. Iker Castaño Pérez**

- ♦ Doctor of the Traumatological Rehabilitation Unit at the Hospital Universitario Rey Juan Carlos
- ♦ Doctor of the Vestibular Rehabilitation Unit at the Rey Juan Carlos University Hospital
- ♦ Interventionalist Rehabilitation Service of Hospital Gómez Ulla
- ♦ Doctor at the Children's Rehabilitation Unit of the Rehabilitation Service of the Gregorio Marañón General University Hospital
- ♦ Degree in Medicine from the University of Navarra
- ♦ Diploma in ultrasound diagnosis of Locomotor System injuries. Level A and B
- ♦ Lecturer in the Master's Degree in Electrotherapy in Rehabilitation Medicine at the TECH Global University}

**Dr. Tomás Luis Quintero Antolín**

- ◆ Specialist in Orthopedics and Traumatology
- ◆ Traumatologist Specialist in Mutua Gallega
- ◆ Area Specialist Doctor at the Vigo Hospital Complex
- ◆ Doctor in the Orthopedic Surgery and Traumatology Unit at the Meixueiro Hospital in Vigo
- ◆ Degree in Medicine and Surgery from the University of Santiago de Compostela
- ◆ Diploma of Advanced Studies by the University of Vigo
- ◆ Diploma of the European Board of Orthopedics and Traumatology
- ◆ Diploma in Management of Musculoskeletal Tumors by SECOT
- ◆ Member of: Member of: Spanish Society of Shoulder and Elbow Surgery, Upper Limb Unit of the University Hospital Complex, Bone and Soft Tissue Tumors Unit of the University Hospital Complex of Vigo, Interdisciplinary Committee of Sarcomas of the University Hospital Complex of Vigo, Commission of the external catastrophe plan of the University Hospital Complex of Vigo, Spanish Technical Team of Emergency Aid and Response, Galician Society of Orthopedic Surgery and Traumatology SOGACOT

**Dr. Jaime León Ezagüi Bentolila**

- ◆ Doctor in the Shoulder and Elbow Unit at the Hospital de la Santa Creu i Sant Pau
- ◆ Arthroscopy and shoulder and elbow surgery Doctor at El Pilar Hospital
- ◆ Doctor in the Arthroscopy and Shoulder Surgery Unit at Mataró Hospital
- ◆ Doctor in the Shoulder and Elbow Unit at Egarsat Hospital
- ◆ Doctor at the Shoulder and Elbow Unit at Aptima Centre Clínic
- ◆ Doctor at Clínica Sagrada Familia
- ◆ Attending Doctor at the Arthroscopy and Arthroplasty Unit of the Santa María de Lleida Hospital

- ◆ Lecturer in the Master's Degree in Upper Extremity at the Barcelona Autonomous University
- ◆ Teaching Member of the Academy of the Spanish Society of Arthroscopy
- ◆ Host of the European Arthroscopy Traveling Fellowship of ESSKA
- ◆ Co-founder of the Fellowship Barcelona training internship platform
- ◆ Visiting Fellowship in Shoulder Surgery at the Reading Shoulder Unit
- ◆ Specialist in Orthopedic Surgery and Traumatology, Barcelona Autonomous University
- ◆ Medical Degree from Universidad Central de Venezuela
- ◆ Member of: Spanish Society of Orthopedic Surgery (SECOT), Spanish Society of Shoulder and Elbow Surgery (SECHC), European Society of Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA), Shoulder Section (ESA) of the ESSKA, Spanish Arthroscopy Association (AEA)

**Dr. Carlos Maia Dias**

- ◆ Healphant Co-Founder and Chief Medical Officer
- ◆ Orthopedic Surgeon - Head of Shoulder and Elbow Unit at CUF Tejo Hospital
- ◆ Orthopedic Surgeon - Head of the Shoulder and Elbow Unit at CUF Santarém Hospital
- ◆ Orthopedic Surgeon - Chief of the Shoulder and Elbow Unit at UCMA
- ◆ Doctor in Bioengineering
- ◆ Doctor of Medicine - Specialist in Orthopedic Surgery
- ◆ Postgraduate degree in Sports Medicine from the Portuguese Society of Sports Medicine
- ◆ Member of: President of the Portuguese Shoulder and Elbow Society, European Council of Orthopedics and Traumatology

# 04

## Structure and Content

The syllabus of this Postgraduate Diploma brings together the most updated concepts in the field of Scapulothoracic Joint Surgery. In this sense, he will delve into Acromioclavicular Pathology, Acute Acromioclavicular Dislocation and the Indications for surgical treatment by Arthroplasty. In addition, through multimedia didactic content, the graduate will deepen in Clavicle fracture, Tenosynovitis and Scapulothoracic Dysfunction. You will also be able to further extend the information provided through this Postgraduate Diploma's extensive library of teaching resources.





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*With the Relearning method you will approach complex clinical concepts with less effort and higher performance”*

## Module 1. Scapulothoracic. Neurological Injuries

- 1.1. Biomechanics of the scapula and scapulothoracic joint
  - 1.1.1. Scapulothoracic joint
  - 1.1.2. Biomechanics of the Scapular Waist
  - 1.1.3. Biomechanics of the Scapulothoracic Joint
- 1.2. Abnormal scapulothoracic joint mobility
  - 1.2.1. Normal scapulothoracic joint mobility
  - 1.2.2. Diagnosis of abnormal scapulothoracic joint mobility
  - 1.2.3. Treatment of Abnormal scapulothoracic joint mobility
- 1.3. Pectoralis minor hyperactivation syndrome
  - 1.3.1. Pectoralis minor hyperactivation syndrome
  - 1.3.2. Diagnosis of pectoralis minor hyperactivation syndrome
  - 1.3.3. Treatment of pectoralis minor hyperactivation syndrome
- 1.4. Serratus anterior palsy
  - 1.4.1. Serratus anterior palsy
  - 1.4.2. Diagnosis of serratus anterior paralysis
  - 1.4.3. Treatment of serratus anterior palsy
- 1.5. Trapezius paralysis
  - 1.5.1. Trapezius paralysis
  - 1.5.2. Diagnosis of trapezius palsy. Diagnosis
  - 1.5.3. Treatment of trapezius palsy
- 1.6. Axillary nerve neuropathy
  - 1.6.1. Axillary nerve neuropathy
  - 1.6.2. Diagnosis of axillary nerve neuropathy
  - 1.6.3. Treatment for axillary nerve neuropathy
- 1.7. Suprascapular nerve neuropathy. Quadrilateral space syndrome
  - 1.7.1. Suprascapular nerve neuropathy
  - 1.7.2. Diagnosis of Suprascapular Nerve Neuropathy
  - 1.7.3. Treatment of Suprascapular Nerve Neuropathy
  - 1.7.4. Quadrilateral space syndrome
  - 1.7.5. Diagnosis of Quadrilateral Space Syndrome
  - 1.7.6. Treatment of Quadrilateral Space Syndrome

- 1.8. Scapulothoracic pathology associated with other processes
  - 1.8.1. Acromioclavicular pathology
  - 1.8.2. Sternoclavicular pathology
  - 1.8.3. Glenohumeral Instability
  - 1.8.4. Dysplasia
  - 1.8.5. Brachial palsy
  - 1.8.6. Others
- 1.9. *Snapping scapula*
  - 1.9.1. *Snapping scapula*
  - 1.9.2. Diagnosis of Snapping scapula
  - 1.9.3. Snapping scapula treatment
- 1.10. Rehabilitative treatment of scapulothoracic dysfunction
  - 1.10.1. Scapulothoracic Dysfunction
  - 1.10.2. Diagnosis of Scapulothoracic Dysfunction. Diagnosis
  - 1.10.3. Rehabilitative treatment of scapulothoracic dysfunction

## Module 2. Acromioclavicular, sternoclavicular and long portion of biceps joints

- 2.1. Acromioclavicular joint and sternoclavicular joint. Sternoclavicular joint pathology
  - 2.1.1. The acromioclavicular joint
  - 2.1.2. The sternoclavicular joint
  - 2.1.3. Sternoclavicular joint pathology
- 2.2. Acute acromioclavicular dislocation. Conservative Treatment
  - 2.2.1. Acute acromioclavicular dislocation
  - 2.2.2. Diagnosis of Acute Acromioclavicular Dislocation
  - 2.2.3. Conservative treatment of the acute acromioclavicular joint
  - 2.2.4. Surgical treatment of the acute acromioclavicular joint
- 2.3. Surgical treatment and surgical techniques for acute acromioclavicular dislocation.
  - 2.3.1. Acute acromioclavicular dislocation
  - 2.3.2. Surgical treatment for acute acromioclavicular dislocation
  - 2.3.3. Acute acromioclavicular dislocation surgical techniques



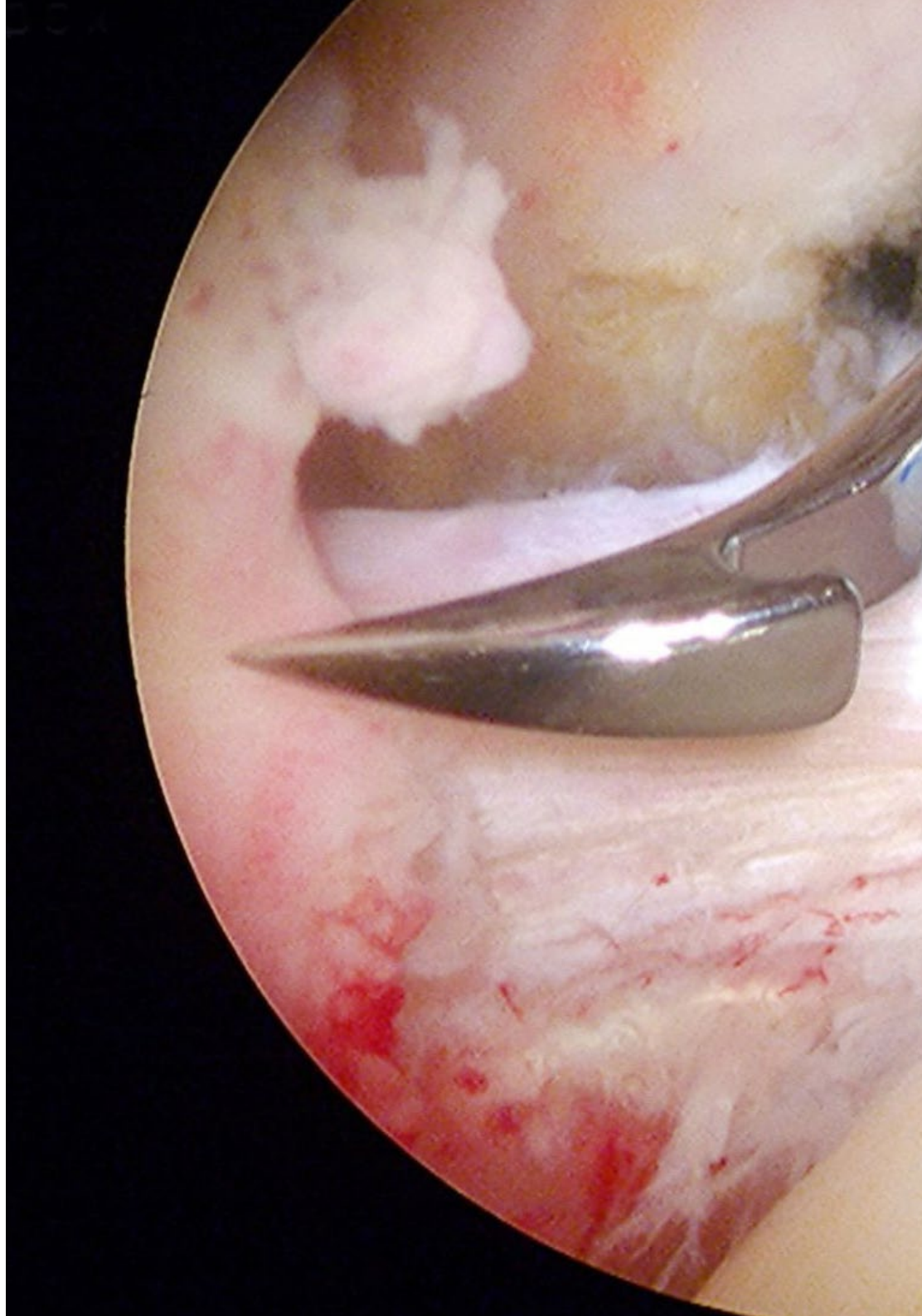


- 2.4. Chronic acromioclavicular dislocation. Surgical treatment techniques
  - 2.4.1. Chronic acromioclavicular dislocation
  - 2.4.2. Surgical Management
  - 2.4.3. Surgical treatment techniques
- 2.5. Complications of acromioclavicular dislocation associated with conservative and surgical treatment
  - 2.5.1. Complications of acute acromioclavicular dislocation treated conservatively
  - 2.5.2. Complications of acute acromioclavicular dislocation treated surgically
  - 2.5.3. Complications of chronic acromioclavicular dislocation treated conservatively
  - 2.5.4. Complications of chronic acromioclavicular dislocation treated surgically
- 2.6. Long portion of the biceps: Anatomical Variants
  - 2.6.1. The shoulder girdle
  - 2.6.2. The long portion of the biceps
  - 2.6.3. Anatomical variants of the long portion of the biceps
- 2.7. Long portion of the biceps: SLAP lesions
  - 2.7.1. SLAP lesions
  - 2.7.2. Classification of SLAP Lesions
  - 2.7.3. Conservative Treatment
  - 2.7.4. Surgical Management
- 2.8. Long portion of the biceps: surgical treatment techniques
  - 2.8.1. The long portion of the biceps
  - 2.8.2. SLAP lesions: surgical treatment techniques
  - 2.8.3. Complications of the surgical treatment of SLAP lesions
- 2.9. Isolated lesions of the long portion of the biceps: tenosynovitis, instability and partial ruptures
  - 2.9.1. Tenosynovitis
  - 2.9.2. Instability
  - 2.9.3. Partial ruptures

- 2.10. Tenotomy versus tenodesis of the long portion of the biceps
  - 2.10.1. Indications for biceps longus tenotomy
  - 2.10.2. Indications for biceps longus tenodesis
  - 2.10.3. Tenotomy versus tenodesis

### Module 3. Scapular Waist Fractures

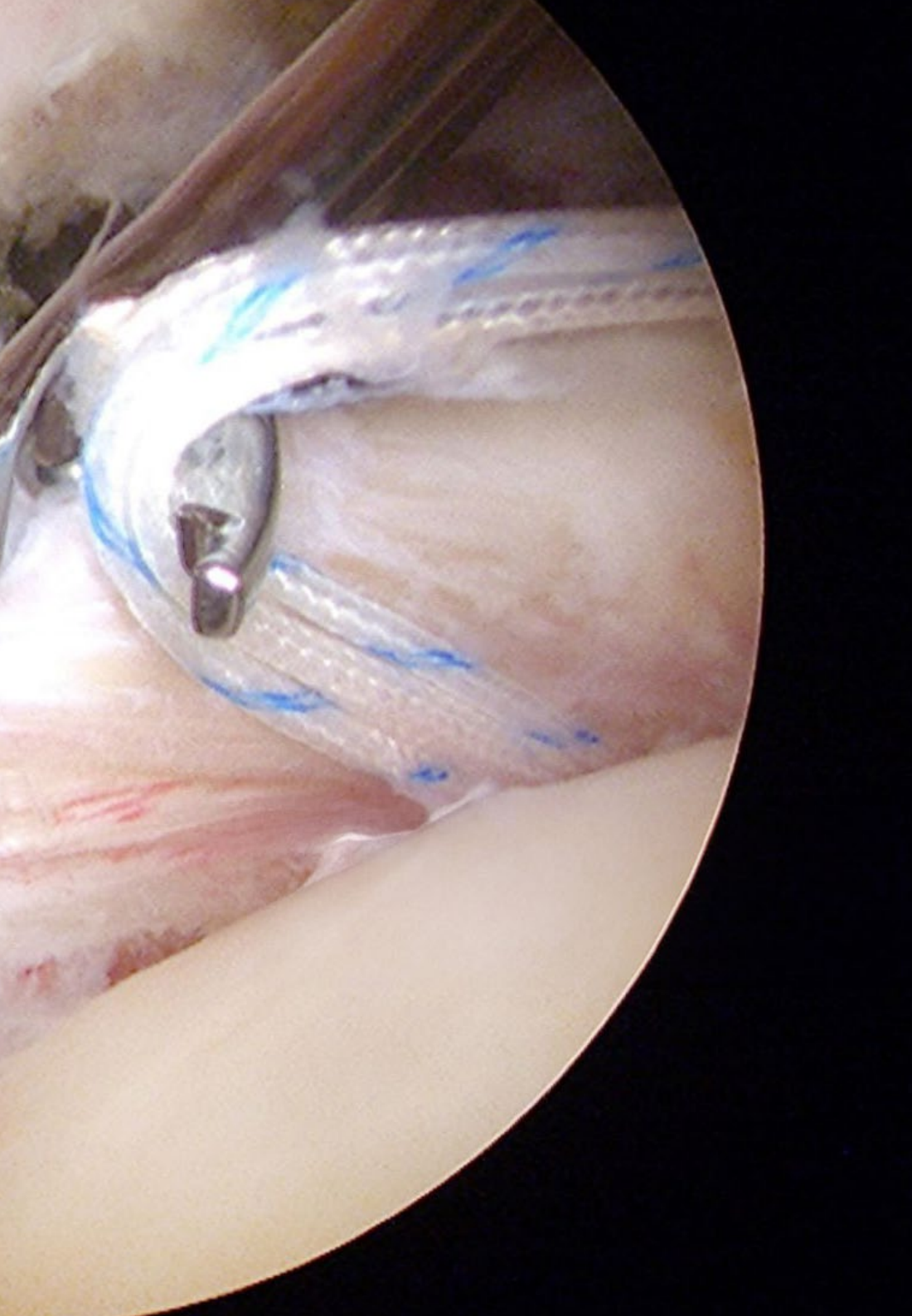
- 3.1. Proximal Humerus Fractures: Conservative Treatment
  - 3.1.1. Proximal Humerus Fractures
  - 3.1.2. Indications for conservative treatment
  - 3.1.3. Conservative treatment of proximal humerus fractures
- 3.2. Proximal Humerus Fracture: Surgical Treatment. Osteosynthesis
  - 3.2.1. Indications for surgical treatment by Osteosynthesis
  - 3.2.2. Locked Proximal Humerus PCL Plate: indications and surgical technique
  - 3.2.3. Endomedullary nailing: indications and surgical technique
  - 3.2.4. Other osteosynthesis techniques in Proximal Humerus fractures
- 3.3. Fractura. Proximal Humerus: Surgical treatment and arthroplasty
  - 3.3.1. Indications for surgical treatment by arthroplasty
  - 3.3.2. Hemiarthroplasty: indications after incorporation of inverted
  - 3.3.3. Total Reverse Shoulder Arthroplasty: indications and surgical technique
- 3.4. Fracture- avulsion of tuberosities. Conservative and surgical treatment. Surgical Techniques
  - 3.4.1. Diagnosis
  - 3.4.2. Indications for conservative treatment
  - 3.4.3. Indications for surgical treatment and surgical techniques
- 3.5. Proximal humerus fracture-dislocation. Conservative and surgical treatment Surgical Techniques
  - 3.5.1. Indications for conservative treatment
  - 3.5.2. Indications for surgical treatment and surgical techniques
  - 3.5.3. Neurological lesions secondary to dislocation
- 3.6. Complications and sequelae of proximal humerus fracture
  - 3.6.1. Proximal Humerus Fracture Complications
  - 3.6.2. Therapeutic approach to the complications of proximal humerus fractures
  - 3.6.3. Proximal Humerus Fracture Sequelae



- 3.7. Clavicle Fracture Conservative Treatment
  - 3.7.1. Clavicle Fracture
  - 3.7.2. Conservative treatment of clavicle fractures
  - 3.7.3. Delayed consolidation. Pseudarthrosis. Surgical Management
- 3.8. Clavicle Fracture Surgical treatment and techniques Osteosynthesis
  - 3.8.1. Surgical Management
  - 3.8.2. Osteosynthesis techniques in clavicle fractures
  - 3.8.3. Surgical treatment in Clavicle Pseudarthrosis
- 3.9. Scapula Fracture. Conservative Treatment
  - 3.9.1. Scapula Fractures
  - 3.9.2. Indication for Conservative Treatment of Scapula Fractures
  - 3.9.3. Conservative treatment of fractures of the scapula
- 3.10. Scapula Fracture: Surgical treatment and techniques Osteosynthesis
  - 3.10.1. Surgical Treatment Indications
  - 3.10.2. Osteosynthesis techniques in fractures of the scapula
  - 3.10.3. Complications of surgical treatment of scapula fractures



*With TECH you will delve into how to diagnose and treat snapping scapula, implementing the right procedure for each patient"*



05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

“

*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Diploma in Scapulothoracic Joint Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.





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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Diploma in Scapulothoracic Joint Surgery** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

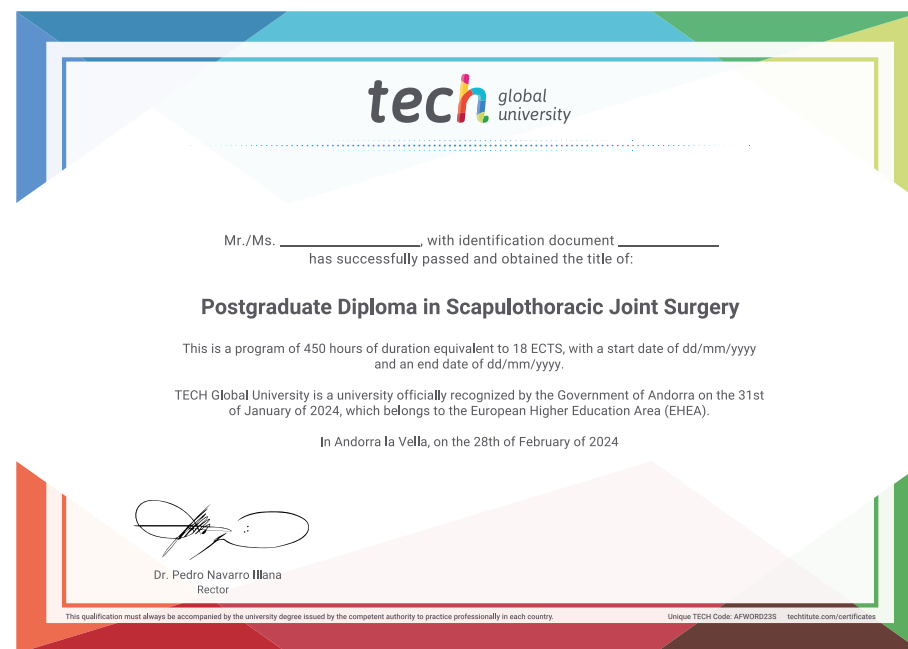
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Scapulothoracic Joint Surgery**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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community commitment  
personalized service innovation  
knowledge present quality  
online languages  
development  
virtual classroom

**tech** global  
university

**Postgraduate Diploma**  
Scapulothoracic Joint Surgery

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Scapulothoracic Joint Surgery

