

## GENERAL INFORMATION

This is an online course requiring self-learning

### DATES AND LOCATION

December 4th-21st, 2020.

### Course Directors

#### Prof. Jose De Andrés

Professor of Anesthesia, Valencia University Medical School  
Chairman, Department of Anesthesiology and Critical Care  
Director of the Multidisciplinary Pain Management Center  
Valencia University General Hospital. Tres Cruces s/n,  
46014-Valencia (Spain)

#### Prof. Carmen Gomar

Professor of Anesthesia,  
Barcelona University Medical School  
Senior Specialist,  
Department of Anesthesiology and Reanimation Hospital  
Clinic i Provincial.  
Villarroel 170. 08036 Barcelona, Spain.

#### Prof. Albert Prats

Professor of Anatomy, Barcelona University Medical School.  
Casanova, 143. 08036 Barcelona, Spain.

### Course Co-Directors

Gustavo Fabregat, MD, PhD  
Xavier Sala-Blanch, MD, PhD

### TARGET AUDIENCE

This advanced course is designed for pain practitioners (pain specialists, anesthesiologists, neurosurgeons) utilizing invasive techniques for pain management. Physicians attending the course should have at least 2 years of practice with ongoing use of neuromodulation techniques in the treatment of chronic pain patients.

### OBJECTIVES

After participation in this educational meeting participants should have a better understanding of:

1. Basic neuroanatomy related with the performance of pain therapies.
2. Clinical evidence regarding new and evolving treatments for the treatment of pain.
3. Current imaging and electrophysiological technologies relevant for performing diagnosis and performing the invasive techniques for pain treatment.
4. Common clinical problems in chronic pain and current recommendations for the evaluation and management of these pain conditions.

5. Evidence-Based treatments in pain medicine. Identify questions that need to be addressed to increase knowledge of neuromodulation techniques use in pain treatment.
6. How to design the Pain studies for obtaining better the evidence.

### ACCREDITATION

An Application has been made to the EACCME® for CME accreditation of this event

### REGISTRATION FEE: 150,00€

To register for this programme, enter the website <https://www.academyfundolor.org/en/> and register ifor the NEUROSTIMULATION COURSE

Technical Secretary : Cristina Cruz. ACADEMY FUNDOLOR

Email: cruz\_cri@gva.es

Multidisciplinary Pain Management Department  
Anesthesia Department

Consorcio Hospital General Universitario de Valencia  
Avda. Tres Cruces, s/n. 46014-Valencia (Spain) Email:

cruz\_cri@gva.es

Phone + 34 96 1199626

### NEXT COURSES

COURSE XVII

December, 3rd-4th, 2021

Barcelona, Spain

Our gratitude for the collaboration given by the following companies:

**Medtronic**  
Further Together

# ONLINE COURSE

## ADVANCED PAIN CADAVER COURSE

## 16th NEUROSTIMULATION-COURSE

December 4th-21st, 2020

## CLINICAL & BASIC SCIENCE FOR THE MANAGEMENT OF THE CHRONIC PAIN PATIENT

Organised by:



SERVICIO DE ANESTESIOLOGÍA  
REANIMACIÓN Y TRATAMIENTO  
DEL DOLOR



ANESTHESIOLOGY ACADEMIC AREA  
DPT OF SURGERY AND SURGICAL SPECIALITIES.  
HUMAN ANATOMY AND EMBRIOLOGY UNIT.  
UNIVERSITY OF BARCELONA

Under the auspicious of



Congress Organiser:

Cristina Cruz  
ACADEMY FUNDOLOR  
Multidisciplinary Pain Management Department  
Anesthesia Department  
Consorcio Hospital General Universitario de Valencia  
Avda. Tres Cruces, s/n, 46014-Valencia  
email: cruz\_cri@gva.es  
Phone: + 34 96 119 9626

MORE INFORMATION ON [www.academyfundolor.org](http://www.academyfundolor.org)

## BASIC SCIENCE

	Session	Faculty
	<b>Introduction and Welcome</b>	<b>José De Andrés Carmen Gomar Albert Prats</b>
	<b>ANATOMY FOR PAIN CLINICIANS</b>	
	Anatomy for Craneal and spine procedures.	Albert Prats
	Applied Anatomy for spinal cord and DRG.	José De Andrés
	<b>IMAGING TECHNIQUES FOR PAIN CLINICIANS</b>	
	<b>SAFETY AND SETTINGS FOR BETTER X-RAY IMAGES</b> 1.- What do you need to know about your machine. 2.- How to use correctly-safety procedures. 3.- Which C arm must I buy for doing my practice?	Jordi Blasco
	<b>MRI and CT-Scan</b> (modalities) How to make the best selection for the intended diagnosis. New imaging modalities and repercussion in pain diagnosis	Beatriz Gómez-Ansón
	<b>NEUROPHYSIOLOGY FOR CHRONIC PAIN CLINICIANS</b>	
	Neurophysiological mechanisms of spinal cord stimulation.	Bengt Linderoth
	Intraoperative neurophysiological monitoring, and evoked compound action potentials (ECAP) in neuromodulation for optimization Spinal Cord Stimulation and Dorsal Root Ganglion Stimulation practice	Steven Falowski
	Technology for outcome prediction in Neurostimulation: OMICs, fMRI, Mathematical Models and Computer Simulations	José De Andrés
	Cortical stimulation for pain control. From anecdote to evidence via neurophysiology and imaging	Luis García-Larrea
	<b>TECHNICAL PROCEDURES</b>	
	<b>1. Neuromodulation PNS</b> 1 Supratroclear and supraorbital Sphenopalatine ganglion stimulation 2 Occipital nerve stimulation (ONS)	Jean P. Van Buyten
	<b>2. Percutaneous ANTEROGRADE lead paraspinal insertion anchoring systems</b>	Steven Falowski
	<b>3. Percutaneous RETROGRADE lead paraspinal insertion Pelvic and perineal stimulation for somatic and visceral pain</b>	Sudhir Diwan
	<b>4. DRG neuromodulation lead insertion: Percutaneous and Endoscopic Navigation</b>	Gregor Bara
	<b>5. Ultrasonography Station</b> (1) Spine structures identification for the practices of SCS neurostimulation (2) PNS insertion with US guidance. Lower Limb	Urs Eichenberger Gustavo Fabregat
	<b>6. Technical Station</b> Devices and programming	Jose Luis Durá

## CLINICAL SCIENCE

	Interactive procedural based session Case based practice	Faculty
	<b>PROCEDURAL CONSIDERATIONS AND PATIENT MANAGEMENT: CASE BASED</b>	
	Hardware selection in neurostimulation for chronic pain, and its influence in outcome	Gregor Bara
	SCS Interactions with Medical, electrical and/or magnetic equipment. Guidelines for reducing complications in neurostimulation practice.	José De Andrés
	<b>DISEASE SPECIFIC PAIN ASSESSMENT AND MANAGEMENT: CASED BASED</b>	
	Cranio facial pain and its management with neurostimulation procedures	Jean P. Van Buyten
	Neuromodulation of visceroreceptive transmission: Thoracic and abdominal targets for pain management	Sam Eldabe
	Spinal cord stimulation for neuropathic pain. Mechanisms and outcomes related with indications: FBSS and what else?	Steven Falowski
	Spinal cord stimulation for Peripheral arterial occlusive disease (PAOD) and angina Pectoris	Bengt Linderoth
	DRG stimulation indication in current clinical practice	Sam Eldabe
	Clinical management of Pelvic and Perineal Pain using neuromodulation techniques	Sudhir Diwan
	Neuromodulation management with Peripheral Nerve stimulation (PNS). In the search of the indications? Shoulder, Groin, Knee?	Sudhir Diwan
	Learning case scenarios interactive discussion	José De Andrés

### Faculties

**Gregor Bara, MD**  
Senior Consultant Neurosurgeon  
Schön Klinik Düsseldorf. Germany  
[GBara@schoen-klinik.de](mailto:GBara@schoen-klinik.de)

**Jordi Blasco MD**  
Radiologist  
Unit of Intervencionist Vascular  
Hospital Clinic i Provincial. Barcelona. Spain  
[jblasco@clinic.cat](mailto:jblasco@clinic.cat)

**José De Andrés, MD, PhD**  
FIPP, EDRA, EDPM  
Anesthesiologist  
Professor of Anesthesia. Valencia University Medical School.  
Chairman. Department of Anesthesiology and Critical Care.  
Director of Multidisciplinary Pain Management Center.  
General University Hospital. Valencia. Spain.  
[Deandres\\_jos@gva.es](mailto:Deandres_jos@gva.es)

**Sudhir Diwan, MD, PhD**  
Executive Director, Manhattan Spine and Pain Medicine Associate Clinical Professor, Albert Einstein College of Medicine Attending Lenox Hill Hospital. New York  
[sudhir.diwan63@gmail.com](mailto:sudhir.diwan63@gmail.com)

**Jose Luis Durá, MSc**  
Electronic Engineer.  
Polytechnic College. Valencia. Spain  
[jl dura@tecnosalud.es](mailto:jl dura@tecnosalud.es)

**Sam Eldabe MD**  
Anesthesiologist  
The James Cook University Hospital.  
Middlesbrough. United Kingdom  
[seldabe@mac.com](mailto:seldabe@mac.com)

**Urs Eichenberger, MD**  
Anesthesiologist  
Balgrist University Hospital  
Zurich. Switzerland  
[urs.eichenberger@balgrist.ch](mailto:urs.eichenberger@balgrist.ch)

**Gustavo Fabregat, MD, PhD**  
Anesthesiologist  
General University Hospital. Valencia. Spain  
[gfabregat@gmail.com](mailto:gfabregat@gmail.com)

**Steven Falowski, MD, FAANS**  
Director Functional Neurosurgery  
St. Lukes University Health Network  
Bethlehem, PA. USA  
[sfalowski@gmail.com](mailto:sfalowski@gmail.com)

**Luis Garcia-Larrea, MD, PhD**  
Clinical Neurophysiology  
INSERM Unit "Central Integration of Pain in Humans"  
Centre for Neuroscience. Lyon, France  
[luis.garcia-larrea@univ-lyon1.fr](mailto:luis.garcia-larrea@univ-lyon1.fr)

**Beatriz Gómez-Anson, MD**  
Neuroradiologist  
Neuroradiology Unit  
Hospital Santa Cruz y San Pablo.  
Barcelona. Spain  
[bgomeza@santpau.cat](mailto:bgomeza@santpau.cat)

**Bengt Linderoth, MD**  
Neurosurgeon  
Karolinska Institutet,  
Dept Clinical Neuroscience,  
Section of Neurosurgery  
[bengt.linderoth@ki.se](mailto:bengt.linderoth@ki.se)

**Albert Prats, MD, PhD**  
Professor of Anatomy  
Anatomy Department. University of Barcelona.  
Barcelona Spain  
[aprats@ub.edu](mailto:aprats@ub.edu)

**Jean Pierre Van Buyten, MD**  
Anesthesiologist  
Pain Clinic AZ Maria Middelaes  
Sint-Niklaas. Belgium  
[vanbuyten@skynet.be](mailto:vanbuyten@skynet.be)