

## GENERAL INFORMATION

### DATES AND LOCATION

June 17th – 18th, 2022. Barcelona, Spain

**LECTURES:** "Sala de Actos" Clinic University Hospital. Villarroel 170.08036 Barcelona Spain. Location: Left Wing from main entrance in Villarroel Street 170. Take the Stairs number 9 to 11. 3rd Floor.

**CADAVER. HANDS-ON DEMONSTRATION:** Dissection Room. Department of Anatomy, Barcelona University Medical School. Location Underground floor. Main entrance from Casanova Street 143

### Course Directors

#### Prof. Jose De Andrés

Professor of Anesthesia, Valencia University Medical School Chairman, Department of Anesthesiology and Critical Care and Pain Management

Director of the Multidisciplinary Pain Management Center Valencia University General Hospital. Valencí. Spain

#### Prof. Carmen Gomar

Professor of Anesthesia, Barcelona University Medical School

Senior Specialist, Department of Anesthesiology and Critical Care

Hospital Clinic i Provincial. Barcelona. Spain

#### Prof. Albert Prats

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

#### Dr Gustavo Fabregat-Cid

Staff Anesthesiologist. Multidisciplinary Pain Management Center

Department of Anesthesiology and Critical Care and Pain Management

Valencia University General Hospital. Valencia. Spain

#### Dr Xavier Sala-Blanch

Associate Professor of Anatomy

Staff Anesthesiologist. Department of Anesthesiology and Critical Care

Hospital Clinic i Provincial. Barcelona. Spain

### TARGET AUDIENCE

This course is designed for pain practitioners (pain specialists, anesthesiologists, neurosurgeons) utilizing intrathecal drug delivery for pain management both in cancer and non cancer patients. The course is also interesting for those who treat severe spasticity.

Physicians attending the course should have at least 2 years of practice with ongoing use of neuromodulation techniques in the treatment of chronic pain and/or spasticity patients, and with basic knowledge of spinal analgesia using intrathecal drug delivery.

Our gratitude for the collaboration given by the following companies:



### OBJECTIVES

After participation in this educational meeting, participants should have an understanding of:

1. Basic neuroanatomy related with the performance of intrathecal drug delivery
2. Current imaging and neurophysiology relevant for performing diagnosis and performing the intrathecal drug delivery for pain & spasticity treatment
3. Identify questions that need to be addressed to increase knowledge of intrathecal techniques used in chronic pain treatment
4. Current indications of Intrathecal drug delivery in chronic pain and recommendations for the evaluation and management of these pain conditions
5. Evidence-Based recommendations and strategies in the patient screening and follow-up, in the management of intrathecal drug delivery analgesia
6. Learning Case scenarios for the acquisition of critical assessment and management skills

### ACCREDITATION

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

### NEXT COURSES

COURSE 11th June 16TH-17th 2023. Barcelona, Spain

### REGISTRATION

REGISTRATION: 1.600,00€

To register for this programme, please contact with:

Cristina Cruz. ACADEMY FUNDOLOR

Email: [academnyfundolor@fundolor.org](mailto:academnyfundolor@fundolor.org)

Multidisciplinary Pain Management Department

Anesthesia Departmen

Consorcio Hospital General Universitario de Valencia

Avda. Tres Cruces, s/n. 46014-Valencia (Spain)

Email: [cruz\\_cri@gva.es](mailto:cruz_cri@gva.es)

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The fee includes:

- Registration
- Conference package
- Meals (2 lunch work and 1 dinner)
- Accommodation (bed & breakfast) 2 nights in a 4\* hotel close to the venue

Each delegate is responsible for his/her travel arrangements, according the course schedule

## ADVANCED CADAVER COURSE

## BASIC & CLINICAL SCIENCE FOR THE MANAGEMENT OF PATIENTS WITH CHRONIC PAIN: INTRATHECAL DRUG DELIVERY COURSE 11th

June 17th - 18th, 2022

Barcelona, Spain

Organised by:



Under the auspicious of



Congress Organiser:

Cristina Cruz

ACADEMY FUNDOLOR

Multidisciplinary Pain Management Department

Anesthesia Department

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

Day 1 - Friday 17th June 2022\_BASIC SCIENCE

Time	Session	Faculty
08.15-08.30	<b>Introduction and Welcome</b>	José De Andrés Albert Prats
08.30-10.30	<b>ANATOMY FOR PAIN CLINICIANS: SPINAL CORD AND SPINE FOR IDD</b>	
08.30-09.00	Anatomy of DRG, intrathecal nerve roots, epidural fat and epidural nerves. Anatomy of spinal vasculature	Albert Prats
09.00-09.30	The spinal meninges and their role in the spinal movement	Miguel Angel Reina
09.30-10.00	Catheter position and dynamics of CSF relevant for IDD	José De Andrés
10.00-13.30	<b>BASIC KNOWLEDGE OF NEUROPHYSIOLOGY &amp; PHARMACOLOGY INVOLVED IN IDD EFFECTS</b>	
10.00-10.30	Relevant physiology involved in spinal injection-mediated analgesia	Anthony Dickenson
10.30-11.00	<b>Break</b>	
11.00-11.30	Mechanisms of action of current intrathecal agents	Tony L. Yaksh
11.30-12.00	Pharmacokinetics of intrathecal agents: hydrophilic/hydrophobic uptake and distribution; effect of rate and volume	Christophe Perruchoud
12.00-12.30	Compounding and stability of intrathecal agents. Rationale for drug mixtures and drug-drug interactions (DDIs)	Salim Hayek
12.30-13.00	Intrathecal Drug Agents: Mechanism of Spinal drug toxicity	Tony L. Yaksh
13:00-13:30	New Intrathecal agents in study. Drugs and neural targets. Role of microglial activation	Anthony Dickenson
13.45-15.00	<b>Lunch</b>	
15.30-19.30	<b>CADAVER. HANDS-ON DEMOSTRATION</b>	
	<b>1. Cadaver Station</b> -Surgical performance of subcutaneous pocket -Refilling procedure with Ultrasonography guidance	Salim Hayek
	<b>2. Cadaver Station</b> -Surgical performance of subfascial subcutaneous pocket Programming of roller Study Priming bolus 0.01 ml over 1 min	Maarten Moens
	<b>3. Cadaver Station</b> Paraspinal Puncture and Catheter fixation at spine level	Denis Dupoirion
	<b>4. Cadaver Station</b> Puncture and catheter feeding in subarachnoid space Catheter tunnelling and pump connection	Christophe Perruchoud
	<b>5.-Ultrasonography Station</b> Neuraxial structures Transversus abdominis Plane (TAP) block with Ultrasonography guidance for field anesthesia in pump implant	Manfred Greher
	<b>6.-Technical Station: Devices and programming</b> - Use of the external patient control, both to provide autonomy to the patient in the management of their pain and to help dose titration. - Programming periodic boluses, with the aim of improving the dispersion of the drug and achieving better results. - Programming by sections, adapting to the needs of each patient.	Esther Beato Engineer
20.30	<b>Dinner</b>	

Day 2 - Saturday 18th June 2022\_CLINICAL SCIENCE

Time	Session	Faculty
08.00-10.00	<b>TECHNICAL ASPECTS OF INTRATHECAL DRUG DELIVERY</b>	
08.00-08.25	Neuraxial Delivery platforms; Ports, Pumps and Catheters	Tony L. Yaksh
08.30-08.55	Patient Selection criteria, screening and preparation; Trial criteria modalities; titrating; devices available in the market for trialling; Pump Hardware selection	Rui V. Duarte
09.00-09.25	<b>Strategies in the follow-up of intrathecal drug infusion</b> -Lack of efficacy: Programing and drug exchange/combination decision -Opioid scalation and Microdosing -Excess in residual volume: Mechanical Tests, plan for and manage ITDD pump replacements	Salim Hayek
09.30-09.55	Practical approach for testing delivery malfunction: catheter and pump test	Christophe Perruchoud
10.00-10.30	<b>Break</b>	
10.30-13.30	<b>DISEASE SPECIFIC PAIN ASSESSMENT AND MANAGEMENT WITH IDD</b>	
10.30-10.55	OPIOID LEARNING SCENARIOS: How to manage a patient with chronic use of systemic opioids, scheduled for IDD opioid management and pump implant. How to shift from one opioid to other according countries legislation and opioid availability	Salim Hayek
11.00-11.25	How to promote referral of cancer patients for intrathecal infusion therapy. The missed opportunity for many pain patients. Where is the gap and the key to open the way?	Rui V. Duarte
11.30-11.55	Is meningeal carcinomatosis and cancer visceral pain an indication for IDD?	Denis Dupoirion
12.00-12.25	Patient with mixed spine pain. How to decide the most appropriate neuromodulation management. IDD only as last resouce?	Maarten Moens
12.30-12.55	Neuropathic Pain and CRPS. Peripheral pain and autonomic applications for IDD. Ziconotide application in IDD	Salim Hayek
13.00-13.25	Prevention, Recognition and Management of complications Interactions with Medical, electrical and/or magnetic equipment and other exposing radiations in daily live	José De Andrés
	<b>LEARNING CASE SCENARIOS</b>	
13.30-13.40	<b>Summary of the course and "Take home messages"</b>	José De Andrés
15.30	<b>Departures</b>	

List of Speakers

**José De Andrés MD, PhD, FIPP, EDRA**  
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.

**Anthony Dickenson, BSc, PhD, FMEDSCI, FBPhS**  
Neuroscience, Physiology and Pharmacology  
University College London  
London. United Kingdom

**Denis Dupoirion MD**  
Anesthesiologist  
Département d'Anesthésie – Douleur  
Institut de Cancérologie de l'Ouest - Paul Papin  
Angers cedex. France

**Rui V. Duarte MD**  
Liverpool Reviends and Implementation Group  
University of Liverpool.  
Liverpool. United Kingdom

**Manfred Greher, MD**  
Anesthesiologist  
Herz- Jesu Hospital  
Vienna, Austria

**Salim Hayek, MD**  
Anesthesiologist  
University Hospitals of Cleveland  
Cleveland. USA.

**Maarten Moens, MD**  
Neurosurgeon  
Department of Neurosurgery. Universitair Ziekenhuis Brussels  
Center for Neurosciences (C4N), Vrije Universiteit Brussel (VUB) Brussels, Belgium

**Christophe Perruchoud, MD**  
Anesthesiologist  
Pain Clinic, Hôpital de la Tour  
Geneva, Switzerland

**Albert Prats, MD, PhD**  
Professor of Anatomy  
Anatomy Department University of Barcelona.  
Barcelona Spain

**Miguel Angel Reina, MD**  
Anesthesiologist  
Monteprincipe University Hospital  
Madrid, Spain.

**Tony L. Yaksh, MD, PhD**  
Anesthesiology and Pharmacology  
University of California. San Diego  
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