



## GENERAL INFORMATION

### DATES AND LOCATION

June 28th – 29th, 2013. Barcelona, Spain

### LECTURES:

Clinic University Hospital . Villarroel 170.08036 Barcelona Spain  
Sala de Actos. 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  
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  
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

### TARGET AUDIENCE

This course is designed for pain practitioners (pain specialists, anesthesiologists, neurosurgeons) utilizing intrathecal drug delivery for pain management. It is also 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.

### OBJECTIVES

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


1. Basic neuroanatomy related with the performance of pain therapies
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 neuromodulation techniques use in 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
6. How to design the Pain studies for obtaining better the evidence.

### ACCREDITATION

The Spanish Accreditation Council for CME (SACCMC) grant hours of CME credit to the course  
The EACCME Grant European CME credits (ECMEC) to the course.

### NEXT COURSES

COURSE IV June 27th – 28th 2014. Barcelona, Spain



## BASIC & CLINICAL SCIENCE FOR THE MANAGEMENT OF PATIENTS WITH CHRONIC PAIN AND SEVERE SPASTICITY : INTRATHECAL DRUG DELIVERY-COURSE III

June 28th - 29th, 2013  
Barcelona, Spain

Organised by:



### Congress Venue:

Sala de Actos. Hospital Clinic i Provincial, planta 3ª, puerta 9  
Sala de Anatomía. Faculty of Medicine. Barcelona University  
Villarroel 170, 08036-Barcelona Spain

### Congress Organiser:

**Cristina Cruz**  
FUNDOLOR

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This program is sponsored in part  
by an educational grant from

**Codman**  
a Johnson & Johnson company

Day 1 - Friday 28th June 2013\_BASIC SCIENCE

Time	Session	Speakers
08.15 - 08.30	Introduction and Welcome	José De Andrés Carmen Gomar Albert Prats
08.30 - 10.30	<b>ANATOMY FOR PAIN CLINICIANS</b>	
08.30 - 09.00	Spinal Cord and Spine for IDD: Anatomy of DRG, intrathecal nerve roots, epidural fat and epidural nerves. Anatomy of spinal vasculature	Albert Prats
09.00 - 09.30	Spinal Cord and Spine for IDD: The spinal meninges and their role in the spinal movement	Miguel Angel Reina
09.30 - 10.00	Spinal Cord and Spine for IDD: Catheter position and dynamics of CSF relevant for IDD	Salim Hayek
10.00 - 11.30	<b>IMAGING TECHNIQUES FOR PAIN CLINICIANS</b>	
10.00 - 10.30	SAFETY AND SETTINGS FOR BETTER X-RAY IMAGES 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
10.30 - 11.00	<b>Break</b>	
11.00 - 11.30	MRI and CT-Scan (modalities) How to make the best selection for the intended diagnosis	Beatriz Gómez-Anson
11.30 - 13.00	<b>BASIC KNOWLEDGE OF NEUROPHYSIOLOGY INVOLVED IN IDD EFFECTS</b>	
11.30- 12.00	Spinal cord physiology	Anthony Dickenson
12.00 - 12.30	Spinal cord pharmacokinetics: properties and routes defining the movement of molecules from the epidural and intrathecal sites of injection into the parenchyma of the central nervous system	Kewal Jain
12.30- 13.00	Potential mechanisms of action of spinally administered drugs	Anthony Dickenson
13.00- 13.30	Rationale for use of drugs outside license in IDD	Kewal Jain
13.45 - 15.00	<b>Lunch</b>	
15.30 - 19.30	CADAVER. HANDS-ON DEMONSTRATION <b>1. Cadaver Station</b> -Surgical performance of subcutaneous pocket -Catheter tunnelling and pump connection -Refilling procedure with Ultrasonography guidance CADAVER (1) SUPINE Trunk Pelvis <b>2. Cadaver Station</b> -Surgical performance of subfascial subcutaneous pocket -Refilling procedure with Programming guidance CADAVER (1) SUPINE Trunk Pelvis <b>3. Cadaver Station</b> Catheter fixation at spine level CADAVER (1) PRONE Trunk Pelvis <b>4. Cadaver Station</b> Puncture an catheter feeding in subarachnoid space CADAVER (1) PRONE Trunk Pelvis <b>5.-Ultrasonography Station</b> MODEL (1) <b>6.-Technical Station</b> Devices and programming	Salim Hayek Gustavo Fabregat  Volker Tronnier Codman Engineer  Sam Eldabe  Pasquale di Negri  Manfred Greher  Codman Engineers
19.30	Closing of the day	
20.30	Dinner	

Day 2 - Saturday 29th June 2013\_CLINICAL SCIENCE

Time	Session	Speakers
08.30 - 09.30	<b>CLINICAL TOPICS</b>	
08.30 - 09.00	Intrathecal Drug Agents: Rationale for mixing of ingredients, dilution, repackaging, admixture, reconstitution. PRACTICAL TIPS FOR DAILY CLINICAL PRACTICE	Salim Hayek
09.00 - 09.30	Technical Aspects of Intrathecal Drug Delivery: Patient selection, screening and preparation;Trialling; titrating; devices; Interactions with Medical, electrical and/or magnetic equipment e.g. diathermy, physiotherapy equipment; MRI scanners; other implanted devices e.g. cardiac pacemakers	Volker Tronnier
09.30 - 13.30	<b>DISEASE SPECIFIC PAIN ASSESSMENT AND MANAGEMENT WITH IDD:</b> Patient Selection criteria; Hardware selection; Technique of implant; Trial criteria; Programming; Follow-up	
09.30 - 10.00	Long-term experience with implanted intrathecal drug administration systems for failed back syndrome and chronic mechanical low back pain	Pascuale di Negri
10.00 - 10.30	Neuropathic pain	Sam Eldabe
10.30 - 11.00	<b>Break</b>	
11.00 - 11.30	Chronic abdominal pain	Salim Hayek
11.30 - 12.00	Cancer pain	Pasquale di Negri
12.00 - 12.30	Spasticity after Stroke or spinal cord injury	Volker Tronnier
12.30 - 13.00	Strategies in the follow-up of intrathecal drug infusion - Lack of efficacy: Programing decision - Excess in residual volume: Mechanical Tests, plan for and manage ITDD pump replacements	Sam Eldabe
13.00 - 13.30	Recognition and management of complications -related to the patient -related to drugs -related to the ITDD device	José De Andrés
13.30 - 13.35	Closing Remarks	José De Andrés
13.45 - 15.00	<b>Lunch</b>	
15.30	<b>Departures</b>	

List of Speakers

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