

Treatment of Severe Spasticity with ITB Therapy

A course for implanters

November 2 and 3, 2018

Lisbon, Portugal



Course Director

Prof. Antonio Gonçalves-Ferreira

Faculty

Dr. Alexandre Rainha Campos

Dra. Arminda Lopes

Dra. Carla Reizinho

Dr. José Brás

Accreditation

TBC

Day 1

Venue: Hospital De Santa Maria

8:30 **Welcome & course introduction** - Prof. Gonçalves-Ferreira

Welcome to the course, ECMT introduction video, hospital de Santa Maria presentation, objectives of the course, agenda of the course, presentation of course participants

9:00 **General overview on the neurophysiology and clinical management of spasticity**

Prof. Gonçalves-Ferreira

Neurophysiology of spasticity, Etiology of spasticity (SCI, TBI, CP, Stroke), Treatment options for spasticity, Multidisciplinary approach to spasticity management

9:30 **Introduction to intrathecal drug delivery therapy for the treatment of severe spasticity**

Dr. Campos

What is ITB therapy? Phases of this therapy (patient identification, trialing, implant, chronic management), Benefits and risks, Main clinical evidence about the efficacy and the cost-effectiveness

10:00 **Intrathecal drug delivery therapy in paediatric population** - Dra. Reizinho

10:30 Coffee break

11:00 **Patient selection, a crucial stage towards therapeutic success** - Dra. Lopes

Patient selection criteria, Patient assessment (muscle tone, spasms, pain, quality of life, functional independence), Discussing treatment objectives with the patients and caregivers, Patient and caregivers education

12:00 **Screening test, how to confirm if a patient is a suitable candidate?** - Dr. Campos

Overview of the screening test procedure (algorithm), Key tasks prior to the screening test (concomitant medication, goals of the screening test, patient and caregivers education), Bolus injection dosage

13:00 Lunch

14:00 **Implantation of the infusion system** - Dr. Campos

Overview of the infusion system components, Overview of the infusion system implant procedure (video), Preoperative tasks (determination of the initial dose, identification of the most appropriate pump pocket site), Postoperative care, Particularities of the pump replacement procedure

16:00 Coffee break

16:30 **Therapy optimization and maintenance** - Dra. Lopes

Drug dosing and titration (initial dose, titration period, maintenance period), Concomitant conventional treatments (physical therapy, orthoses, oral medication, botulinum toxin), How to refill the pump, Potential adverse effects (drug related, procedure related, system related and other), Suggested treatments for drug overdose and underdose or withdrawal, Troubleshooting system complications

18:00 End of program day 1

20:00 Group dinner

Day 2

Venue: Hospital De Santa Maria

- 9:00 **Review of useful landmarks for the implantation of the catheter** - Prof. Gonçalves-Ferreira, Dr. Campos, Dra. Reizinho, Dr. Brás
Review of the paramedian approach, Using fluoroscopy to reach the intrathecal space
- 10:30 **Lab hands-on workshop: implant procedure** - Prof. Gonçalves-Ferreira, Dr. Campos, Dra. Reizinho, Dr. Brás
Practicing catheter implantation procedure, Tunneling toward the pump implant side, Pump implant
- Parallel workshop: refill and programming** - Dra. Lopes
Best practices in pump refill, Avoiding complications
- 12:30 **Final questions and answers** - All
- 13:00 Lunch
- 14:00 End of program