**LECTURES**

1. Overview on surgical treatment of dystonia: GPi/STN/VO-DBS and intrathecal drug infusion – **Fabian Piedimonte (ARG)**
2. Multi-target surgery for Parkinson’s disease – **Paolo Mazzone (ITA)**
3. Rescue surgery in Parkinson’s disease – **Stephan Chabardez (FRA)**
4. Surgical management of the other hyperkinetic movement disorders: Tremors and Huntington’s disease – **Jairo Espinoza (COL)**
5. Gene therapy and stem cells therapy for movement disorders: State of the art – **Robert Gross (USA)**
6. Deep brain stimulation for Alzheimer’s disease – **Clement Hamani (CAN)**
7. DBS for eating disorders: where are we? – **Alessandra Gorgulho (BRA)**
8. Aggressive behavior: What is it? How to treat? – **Osvaldo Vilela-Filho (BRA)**
9. Deep brain stimulation for major depression disorder and obsessive-compulsive disorder: Targets, results and level of evidence – **Robert Gross (USA)**
10. Minimally invasive techniques for refractory temporal lobe epilepsy induced by mesial temporal sclerosis – **Francisco Velasco (MEX)**
11. Complications in deep brain stimulation: How to avoid? How to treat? – **Alexandre Francisco (BRA)**
12. Neuropathic pain: DREZ lesion x Spinal cord stimulation – **Marc Sindou (FRA)**
13. Deep brain stimulation for neuropathic pain: Where we are? – **José Oswaldo Oliveira Jr (BRA)**
14. Peripheral nerve stimulation for pain – **Kleber Duarte (BRA)**
15. Surgical management of cancer pain: Intrathecal drug infusion x PVG-PAG-DBS x Ablative surgery – **Manoel Teixeira (BRA)**
16. Neurosurgical treatment of drug addiction – **Antonio Gonçalves Ferreira (POR)**
17. Motor cortex stimulation for pain and movement disorders: State of the Art – **Claudio Yampolski (ARG)**
18. Using DTI and functional MR to define the targets – **Juan Barcia (SPA)**
19. Current role of radiosurgery in functional neurosurgery – **Antonio de Salles (BRA)**
20. How to best manage for spasticity today? – **Marc Sindou (FRA)**

**SPICY SESSIONS:**

1. **Determination of the surgical target: which technique is best?**

Imaging I: Direct Targeting – 10’ – **Juan Barcia (SPA)**

Imaging II: Atlases – 10’ – **Armando Alaminos (BRA)**

Imaging III: DTI – 10’ – **Alexandre Reis (BRA)**

Macrostimulation – 10’ – **Humberto Prinzo (URU)**

Microrecording – 10’ – **Stephan Chabardez (FRA)**

Microdialysis – 10’ – **Erich Fonoff (BRA)**

Discussion – 20’

1. **How to best manipulate the surgical target?**

Radiofrequency – 10’ – **Pablo Hernandez (URU)**

Radiosurgery – 10’ – **Sergio Dantas (BRA)**

High intensity focused ultrasound – 10’ – **Clement Hamani (CAN)**

Deep brain stimulation – 10’ – **Marcelo Linhares (BRA)**

Discussion – 20’

1. **What is the rationale for using this target in Tourette syndrome?**

Medial thalamus – 10’ – **Nilton Lara (BRA)**

GPi – 10’ – **Philippe Cornu (FRA)**

GPe – 10’ – **Osvaldo Vilela-Filho (BRA)**

STN – 10’ – **Stephan Chabardez (FRA)**

Discussion – 20’

1. **What is the best technique for treating generalized epilepsies?**

Callosotomy – 10’ – **Tatiana Von Hertwig (BRA)**

VNS – 10’ – **Paulo Ragazzo (BRA)**

CM-DBS – 10’ – **Francisco Velasco (MEX)**

AN-DBS – 10’ – **Antonio Gonçalves Ferreira (POR)**

Discussion – 20’

1. **When should one choose this technique to treat refractory visceral pain?**

Peripheral ablative techniques – 10’ – **Rômulo Marques (BRA)**

Mielotomies and comissurotomies – 10’ – **Manoel Teixeira**

Percutaneous cordotomy – 10’ – **Carlos Telles (BRA)**

Spinal cord stimulation – 10’ – **Marc Sindou (FRA)**

Discussion – 20’

1. **Surgical management of the gait disturbance in Parkinson’s disease**

GPi-DBS – 10’ – **Tiago Freitas ou Luiz Cláudio Pereira(BRA)**

STN/SNR-DBS – 10’ – **Stephan Chabardez (FRA)**

PPN-DBS – 10’ – **Paolo Mazzone (ITA)**

SCS – 10’ – **Erich Fonoff (BRA)**

Discussion – 20’

**PROS AND CONS SESSIONS**

1. Parkinson’s disease: GPi is the best target!

Pros: Robert Gross (USA)

Cons: Paolo Mazzone (ITA)

1. Parkinson’s disease: STN is the best target!

Pros – 10’: Stephan Chabardez (FRA)

Cons – 10’: Juan Barcia (SPA)

Discussion – 15’

**CONTROVERSIES SESSIONS**

1. Essential tremor: Which target is best?

Vim – 10’ – Manoel Teixeira (BRA)

RaPrL – 10’ – José Carrillo ou Francisco Velasco (MEX)

Discussion – 15’

1. Secondary dystonia: Which target is best?

GPi – 10` - Yuri Souza (BRA)

Thalamus – 10’ – José Maurício Siqueira (BRA)

Discussion – 15’

1. Spastic paraplegia in ambulatory patients: Treatment of choice

Baclofen pump – 10’ – Rodrigo Labruna (BRA)

DREZotomy – 10’ – Fabian Piedimonte (ARG)

Discussion – 15’

1. Noninvasive ablative surgery for movement disorders: Best treatment?

HIFU – 10’ – Clement Hamani (CAN)

Radiosurgery – Julio Antico (ARG)

Discussion – 15’