

# **2<sup>nd</sup> Theoretical, Practical & Hands-on International Course in Peripheral Nerve & Brachial Plexus Surgery**

**3<sup>rd</sup> Annual Meeting of Serbian Neurosurgical Society (SNSS)  
Joint meeting with Southeast Europe Neurosurgical Society (SEENS)**

*94<sup>th</sup> Anniversary of Neurosurgery in Serbia*

*79<sup>th</sup> Anniversary of Clinic for Neurosurgery at Clinical Centre of Serbia*

**October 31<sup>st</sup> - November 3<sup>rd</sup> 2017**

**University of Belgrade / School of Medicine / Institute for Anatomy "Niko Miljanić"  
Belgrade, Serbia**

**PRELIMINARY  
SCIENTIFIC PROGRAM**

# SCIENTIFIC PROGRAM

## Day 1: October 31<sup>st</sup>

- 08:00** Opening ceremony –Welcome addresses
- 09:00** Special Conference: Peripheral Nerve Surgery:  
from my beginnings till the present (Madjid Samii, Germany)

### PART I: BASIC PRINCIPLES OF DIAGNOSIS IN PERIPHERAL NERVE INJURIES

*Coordinators: Michel Kliot, Allan Belzberg, Gregor Antoniadis*

- 09:30** Use of MRI in nerve trauma  
*Daniela Binaghi, Argentina*
- 09:45** Neurosonography in nerve trauma  
*Maria Pedro, Germany*
- 10:00** Evolving Ultrasound And MRI Techniques That Help Diagnose And Treat Peripheral Nerve Problems  
*Michael Kliot, USA*
- 10:15** Neurophysiology in peripheral nerve injuries  
*Pablo Calvo, Spain*
- 10:30** Discussion
- 11:00** Coffee Break

### PART II: CLINICAL EXAMINATION

*Coordinators: Mario Siqueira, Thomas Kretschmer, Alberto Isla*

- 11:15** Clinical examination in videos: upper limb  
*Gilda di Masi, Argentina*
- 11:30** Clinical examination in videos: lower limb  
*Gonzalo Bonilla, Argentina*
- 11:45** Practical clinical examination: a short trip from the seat to the table  
*Thomas Kretschmer, Germany & Anil Bathia, India*
- 12:00** Discussion

### PART III: BASICS, INDICATIONS AND SURGICAL TECHNIQUES IN TRAUMA

*Coordinators: Mariano Socolovsky, Rajiv Midha, Bassam Addas*

- 12:30** Fundamentals of nerve injury and regeneration  
*Rajiv Midha, Canada*
- 12:45** Surgical timing: when should we operate?  
*Leandro Pretto Flores, Brasil*
- 13:00** Neurolysis: Is it useful? In which cases?  
*Javier Robla, Spain*
- 13:15** The Nerve Graft  
*Kartik Krischnan, Germany*
- 13:30** Neurography with and without grafts  
*Miguel Domínguez, Spain*
- 13:45** Distal nerve transfers instead of primary graft repair: when, why and how?  
*Jorge Clifton, Mexico*
- 14:00** Discussion
- 14:30** Lunch

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## PART IV: SPECIAL PROBLEMS IN TRAUMATIC INJURIES *Coordinators: Lukas Rasulic, Sumit Sinha, Cristopher Winfree*

- 15:00 Clinical aspects of ballistic peripheral nerve injuries  
*Shimon Roschkind, Israel*
- 15:15 Gunshot wounds: surgical treatment  
*Bassam Abbas, Saudi Arabia*
- 15:30 Iatrogenical Injuries  
*Gregor Antoniadis, Germany*
- 15:45 Surgical results of XII-VII and V-VII transfer in facial nerve palsy  
*Mariano Socolovsky, Argentina*
- 16:00 An Algorithmic Approach to the Surgical Treatment of Facial Nerve Palsy  
*Kartik Krischnan, Germany*
- 16:15 Discussion**

## PART V: PERIPHERAL NERVE TUMORS *Coordinators: Robert Spinner, Javier Robla, Eric Zager*

- 16:45 Nerve tumors: Basic approach  
*Rajiv Midha, Canada*
- 17:00 A clinical and radiographic score to assess malignant potential in peripheral nerve sheath tumors  
*Cristopher Winfree, USA*
- 17:15 Indications for surgery and extent of surgical resection in non-malignant versus malignant tumors  
*Allan Belzberg, USA*
- 17:30 Malignant peripheral nerve tumors  
*Alberto Isla, Spain*
- 17:45 Coffee break**
- 18:00 Management of brachial plexus tumors  
*Eric Zager, USA*
- 18:15 Neurofibromatosis: which is the role of surgery?  
*Debora Garozzo, Italy*
- 18:30 The international Schwannomatosis database  
*Allan Belzberg, USA*
- 18:45 Intraneural ganglion cysts  
*Robert Spinner, USA*
- 19:00 Perineuromas  
*Gregor Antoniadis, Germany*
- 19:15 Discussion**

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Day 2: November 01<sup>st</sup>

## PART VI: NERVE COMPRESSIONS OF THE UPPER LIMBS

Coordinators: *Wilson Zack Ray, Shimon Rochkind, Bassam Addas*

- 08:30 Nerve conduction studies in common entrapment neuropathies  
*Pablo Calvo, Spain*
- 08:45 Be careful! Not all compressions are compressions!  
*Debora Garozzo, UAE*
- 09:00 Carpal tunnel: Clinical aspects and indications for surgery  
*Eric Zager, USA*
- 09:15 Carpal tunnel syndrome: surgical technique in the open approach  
*Mario Siqueira, Brasil*
- 09:30 How to operate a carpal tunnel endoscopically?  
*Maria Teresa Pedro, Germany*
- 09:45 Literature review: controversy between open and endoscopical decompression of carpal and ulnar tunnel  
*Gregor Antoniadis, Germany*
- 10:00 Ulnar nerve compressions: Indications and surgical technique  
*Sumit Sinha, India*
- 10:15 Endoscopic release of ulnar nerve at the elbow  
*Javier Robla, Spain*
- 10:30 Discussion**
- 11:00 Break**
- 11:15 Controversies in nerve compressions: do not believe all what is published!  
*Mariano Socolovsky, Argentina*
- 11:30 Thoracic outlet syndrome: European experience  
*Piero Raimondi, Italy*
- 11:45 Thoracic outlet syndrome: North-American experience  
*Eric Zager, USA*
- 12:00 Suprascapular nerve compression  
*Miguel Quadros, Spain*
- 12:15 Discussion**
- 12:45 Lunch**

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## PART VII: NERVE COMPRESSIONS OF THE LOWER LIMBS

*Coordinators: Leandro Flores, Gilda di Masi, Debora Garozzo*

- 13:15 Peroneal nerve compression  
*Eric Zager, USA*
- 13:30 Morton's neuroma  
*Carlos Rodríguez, México*
- 13:45 Tarsal tunnel  
*Maria Pedro, Germany*
- 14:00 Meralgia Parestética  
*Fernando Martínez, Uruguay*
- 14:15 Tendon transfers for steppage  
*Manuel Llusá, Spain*
- 14:30 **Discussion**

## PART VIII: PAIN AND PERIPHERAL NERVE SURGERY

*Coordinators: Mario Siqueira, Mohammadreza Ememhadi, Gonzalo Bonilla*

- 15:00 Basic science of neuropathic pain & neuroma formation  
*Allan Belzberg, USA*
- 15:15 The management of neuropathic pain following brachial plexus injuries  
*Cristopher Winfree, USA*
- 15:30 Clinical aspects of painful neuromas  
*Shimon Roschkind, Israel*
- 15:45 The DREZ operation  
*Allan Belzberg, USA*
- 16:00 **Discussion**
- 16:30 **Coffee break**

## PART IX: WHAT CAN PERIPHERAL NERVE SURGEONS DO FOR TETRAPLEGICS?

*Coordinators: Debora Garozzo, Zack Ray, Luciano Foroni*

- 16:45 Nerve transfers for spinal cord injuries: North-American experience  
*Wilson Ray, USA*
- 17:00 Nerve transfers for spinal cord injuries: Iranian experience  
*Mohamadreza Emamhadi, Iran*
- 17:15 Muscle transfers in quadriplegic people  
*Caroline Leclercq, France*
- 17:30 **Discussion**

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Day 3: November 02<sup>nd</sup>

## PART X: ADULT BRACHIAL PLEXUS SURGERY

Coordinators: *Fernando Guedes, Jorge Clifton, Bassam Addas*

- 08:30 Clinical types of brachial plexus injuries  
*Manuel Llusá, Spain*
- 08:45 Anatomy and surgical approaches to the brachial plexus  
*Linda Yang, USA*
- 09:00 Indications for surgery in BPI: When should we operate?  
*Debora Garozzo, UAE*
- 09:15 Indications for surgery in BPI: When we should not operate?  
*Piero Raimondi, Italy*
- 09:30 Quality of life after BPI surgery: The Balkan scale  
*Lukas Rasulic, Serbia*
- 09:45 Quality of life outcome assesment in adult plexus injuries: a personal experience of 300 cases  
*Sumit Sinha, India*
- 10:00 Brain Plasticity: Keep it in mind  
*Mariano Socolovsky, Argentina*
- 10:15 Nerve grafts versus nerve transfers: Who wins the battle?  
*Piero Raimondi, Italy*
- 10:30 Surgical strategy in C5-C6 injuries  
*Mario Siqueira, Brazil*
- 10:45 Normal range of motion after partial upper lesions? Is that possible  
*Jorge Clifton, México*
- 11:00 Surgical strategy in C8-D1 injuries  
*Anil Bathia, India*
- 11:15 Surgical strategy in complete injuries  
*Lukas Rasulic, Serbia*
- 11:30 **Discussion**
- 12:00 **Break**
- 12:15 Where are we in complete palsies?  
*Piero Raimondi, Italy*
- 12:30 Sensory reinnervation in BP injuries  
*Luciano Foroni, Brasil*
- 12:45 Sensory nerve transfers are as important as motor nerve transfers?  
*Mohammadreza Emamhadi, Iran*
- 13:00 Complications in brachial plexus surgery  
*Fernando Martínez, Uruguay*

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- 13:15 Secondary surgery in brachial plexus surgery  
*Miguel Quadros, Spain*
- 13:30 Tendon-muscle transfer after peripheral nerve lesion  
*Robert Schmidhammer, Austria*
- 13:45 Late free muscle transplant: role in BP injuries  
*Manuel Llusá, Spain*
- 14:00 Infraclavicular palsies: diagnosis and management  
*Anil Bathia, India*
- 14:15 **Discussion**
- 14:45 **Lunch**

### PART XI: OBSTETRIC BRACHIAL PLEXUS-THE BASICS

*Coordinators: Alex Muset, Piero Luigi Raimondi, Alain Gilbert*

- 15:45 Brachial Plexus and OBPP in history: why operate?  
*Alain Gilbert, France*
- 16:00 Natural history of OBPP and indications for surgery  
*Piero Luigi Raimondi, Italy*
- 16:15 What to do with a neuroma in continuity that has a positive response under stimulation?  
*Alex Muset, Spain*
- 16:30 40 years of OBPP surgery: what has changed?  
*Alain Gilbert, France*
- 16:45 Reinnervation of elbow flexion in OBPP: grafts or nerve transfers?  
*Mario Siqueira, Brazil*
- 17:00 Results that can be obtained in OBPP  
*Alex Muset, Spain*
- 17:15 **Discussion**

# SCIENTIFIC PROGRAM

Day 4: November 03<sup>rd</sup>

## PRACTICAL PART-CADAVERIC DISSECTIONS

09:00 Innervation of the brachial and antebrachial parts of the upper limb  
*Zdravko Vitosevic, Serbia and Milan Milisavljevic, Serbia*

09:20 Applied anatomy of brachial plexus trunci  
*Branislav Filipovic, Serbia*

09:40 Applied anatomy of the hand innervation  
*Aleksandar Malikovic, Serbia*

**10.00-13.00 DISSECTIONS BY PARTICIPANTS-UPPER LIMB**

**13.00 Lunch**

14:00 Lumbar plexus ant topographical anatomy of the anterior abdominal wall and anterior femoral regions  
*Laslo Puskas, Serbia and Milan Milisavljevic, Serbia*

14:20 Sacral plexus and topographical anatomy of gluteal and posterior femoral regions  
*Zdravko Vitosevic, Serbia and Milan Milisavljevic, Serbia*

14:40 Innervation of the anterior and posterior leg regions.  
*Laslo Puskas, Serbia and Milan Milisavljevic, Serbia*

15:00 Applied anatomy of the foot innervation  
*Milan Milisavljevic, Serbia*

**15.20-18.20 DISSECTIONS BY PARTICIPANTS-LOWER LIMB**