

2nd Theoretical, Practical & Hands-on International Course in Peripheral Nerve & Brachial Plexus Surgery

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

94th Anniversary of Neurosurgery in Serbia

79th Anniversary of Clinic for Neurosurgery at Clinical Centre of Serbia

October 31st - November 3rd 2017

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

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Day 1: October 31st

08:00 Opening ceremony –Welcome addresses

- Prof. Dr Lukas Rasulic, President of Serbian Neurosurgical Society, Course Director
- Ass. Dr Zlatibor Loncar, Minister of health, Republic of Serbia
- Prof. Dr Vladimir Bumbasirevic, Rector, University of Belgrade
- Prof. Dr Nebojsa Lalic, Dean, School of Medicine, University of Belgrade
- Prof. Dr Vladimir Kostic, President, Serbian Academy of Sciences and Arts
- Prof. Dr Milos Jokovic, Director, Clinic of neurosurgery, Clinical Center of Serbia
- Dr Mariano Socolovsky, Chairman, Peripheral Nerve Committee, World Federation of Neurosurgical Societies, Course Director
- Prof. Dr Branislav Filipovic, Chairman of The Institute of Anatomy “Niko Miljanic”, Course Director
- Prof. Dr Kresimir Rotim, SeENS President

9:00 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: Allan Belzberg, Gregor Antoniadis, Javier Robla

- 09:30 Use of MRI in nerve trauma
Daniela Binaghi, Argentina
- 09:45 Neurosonography in nerve trauma
Maria Pedro, Germany
- 10:00 Neurophysiology in peripheral nerve injuries
Pablo Calvo, Spain
- 10:15 Discussion
- 10:45 Coffee Break

PART II: CLINICAL EXAMINATION

Coordinators: Mario Siqueira, Thomas Kretschmer, Alberto Isla

- 11:00 Clinical examination in videos: upper limb
Gilda di Masi, Argentina
- 11:15 Clinical examination in videos: lower limb
Gonzalo Bonilla, Argentina
- 11:30 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 Neurolisis: Is it useful? In which cases?
Javier Robla, Spain
- 13:15 The Nerve Graft
Kartik Krischnan, Germany
- 13:30 Neurorraphy with and without grafts: surgical technique
Miguel Domínguez, Spain
- 13:45 Distal nerve transfers instead of primary graft repair: when, why and how?
Jorge Clifton, Mexico
- 14:00 Discussion
- 14:15 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 Nerve reconstruction in severely injured extremities
Marko Bumbasirevic, Serbia
- 15:30 Gunshot wounds: surgical treatment
Bassam Abbas, Saudi Arabia
- 15:45 Iatrogenical Injuries
Gregor Antoniadis, Germany
- 16:00 Surgical results of XII-VII and V-VII transfer in facial nerve palsy
Mariano Socolovsky, Argentina
- 16:15 An Algorithmic Approach to the Surgical Treatment of Facial Nerve Palsy
Kartik Krischnan, Germany
- 16:30 Discussion**

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

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

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Day 2: November 01st

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, Italy
- 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 Organization of carpal tunnel surgery; experience from 1003 patients treated in a neurosurgical one-stop clinic
Kare Fugleholm, Denmark
- 09:45 How to operate a carpal tunnel endoscopically?
Maria Teresa Pedro, Germany
- 10:00 Literature review: controversy between open and endoscopic decompression of carpal and ulnar tunnel
Gregor Antoniadis, Germany
- 10:15 Surgical treatment of ulnar nerve compression at the elbow: Indications and techniques
Mario Siqueira, Brazil
- 10:30 Endoscopic release of ulnar nerve at the elbow
Javier Robla, Spain
- 10:45 Discussion**
- 11:15 Coffee break**
- 11:30 Controversies in nerve compressions: do not believe all what is published!
Mariano Socolovsky, Argentina
- 11:45 Thoracic outlet syndrome: European experience
Piero Raimondi, Italy
- 12:00 Thoracic outlet syndrome: North-American experience
Eric Zager, USA
- 12:15 Suprascapular nerve compression
Miguel Quadros, Spain
- 12:30 Discussion**
- 13:00 Lunch**

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PART VII: NERVE COMPRESSIONS OF THE LOWER LIMBS

Coordinators: Leandro Flores, Gilda di Masi, Debora Garozzo

- 13:30 Peroneal nerve compression
Eric Zager, USA
- 13:45 Morton's neuroma
Carlos Rodriguez, Mexico
- 14:00 Tarsal tunnel
Maria Pedro, Germany
- 14:15 Meralgia Parestetica
Fernando Martinez, Uruguay
- 14:30 Saphenous neuropathy: diagnosis and management
Thomas J Wilson, USA
- 14:45 Failed Back Surgery Syndrome and lower limb entrapments
Ridvan Alimehmeti, Albania
- 15:00 Tendon transfers for steppage
Manuel Llusa, Spain
- 15:15 **Discussion**

PART VIII: PAIN AND PERIPHERAL NERVE SURGERY

Coordinators: Mario Siqueira, Mohammadreza Ememhadi, Gonzalo Bonilla

- 15:45 Basic science of neuropathic pain & neuroma formation
Allan Belzberg, USA
- 16:00 The management of neuropathic pain following brachial plexus injuries
Cristopher Winfree, USA
- 16:15 Clinical aspects of painful neuromas
Shimon Roschkind, Israel
- 16:30 The DREZ operation
Allan Belzberg, USA
- 16:45 **Discussion**
- 17:15 **Coffee break**

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

Coordinators: Debora Garozzo, Wilson Zack Ray, Luciano Foroni

- 17:30 Nerve transfers for spinal cord injuries: North-American experience
Wilson Zack Ray, USA
- 17:45 Nerve transfers for spinal cord injuries: Iranian experience
Mohammadreza Emamhadi, Iran
- 18:00 Muscle transfers in quadriplegic people
Caroline Leclercq, France
- 18:15 **Discussion**

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Day 3: November 02nd

PART X: ADULT BRACHIAL PLEXUS SURGERY

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

- 08:30 Clinical types of brachial plexus injuries
Manuel Llusa, 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, Italy
- 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 Discussion**
- 10:35 Coffee break**
- 10:50 Nerve grafts versus nerve transfers: Who wins the battle?
Piero Raimondi, Italy
- 11:05 Surgical strategy in C5-C6 injuries
Mario Siqueira, Brazil
- 11:20 The aUT-MC technique : a new method to reanimate the biceps in C5-C6 injuries of the brachial plexus
Stefano Ferraresi, Italy
- 11:35 Normal range of motion after partial upper lesions? Is that possible
Jorge Clifton, Mexico
- 11:50 Surgical strategy in C8-D1 injuries
Anil Bathia, India
- 12:05 Surgical strategy in complete injuries
Lukas Rasulic, Serbia
- 12:20 **Discussion**
- 12:15 Lunch**
- 13:00 Where are we in complete palsies?
Piero Raimondi, Italy
- 13:15 Sensory reinnervation in BP injuries
Luciano Foroni, Brasil

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- 13:30 Sensory nerve transfers are as important as motor nerve transfers?
Mohammadreza Emamhadi, Iran
- 13:45 Complications in brachial plexus surgery
Fernando Martinez, Uruguay
- 14:00 Secondary surgery in brachial plexus surgery
Miguel Quadros, Spain
- 14:15 Arthrodesis of the shoulder: a viable solution
Gustavo Nizzo, Argentina
- 14:30 Tendon-muscle transfer after peripheral nerve lesion
Robert Schmidhammer, Austria
- 14:45 Late free muscle transplant: role in BP injuries
Manuel Llusá, Spain
- 15:00 Infraclavicular palsies: diagnosis and management
Anil Bathia, India
- 15:15 **Discussion**
- 15:45 **Coffee break**

PART XI: OBSTETRIC BRACHIAL PLEXUS-THE BASICS

Coordinators: Alex Muset, Piero Luigi Raimondi, Alain Gilbert

- 16:05 Brachial Plexus and OBPP in history: why operate?
Alain Gilbert, France
- 16:20 Natural history of OBPP and indications for surgery
Piero Luigi Raimondi, Italy
- 16:35 What to do with a neuroma in continuity that has a positive response under stimulation?
Alex Muset, Spain
- 16:50 40 years of OBPP surgery: what has changed?
Alain Gilbert, France
- 17:05 Reinnervation of elbow flexion in OBPP: grafts or nerve transfers?
Mario Siqueira, Brazil
- 17:20 Results that can be obtained in OBPP
Alex Muset, Spain
- 17:35 **Discussion**

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Day 4: November 03rd

PRACTICAL PART-CADAVERIC DISSECTIONS

- 08:00 Welcome addresses:
Mariano Socolovsky, Argentina
Lukas Rasulic, Serbia and Branislav Filipovic, Serbia
- 08:10 Importance of education of cadaver dissection of Brachial Plexus and Peripheral Nerve Surgical practice
- 08:30 Innervation of the brachial and antebrachial parts of the upper limb
Zdravko Vitosevic, Serbia and Milan Milisavljević, Serbia
- 08:50 Applied anatomy of brachial plexus trunci
Branislav Filipovic, Serbia
- 09:10 Applied anatomy of the hand innervation
Aleksandar Malikovic, Serbia
- 09:30 Discussion and coffee break**
- 10.00-13.00 Dissections by participants-upper limb**
- 13.00 Lunch**
- 14:00 Lumbar plexus and topographical anatomy of the anterior abdominal wall and anterior femoral regions
Laslo Puskas, Serbia and Milan Milisavljević, 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 Discussion and coffee break**
- 15.45-18.45 Dissections by participants-lower limb**
- 18:45-19:00 Closing Remarks**