

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

SCIENTIFIC PROGRAM

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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**