



THE EUROPEAN ASSOCIATION
OF NEUROSURGICAL SOCIETIES

EANS SECTION OF PERIPHERAL NERVE SURGERY

BRACHIAL PLEXUS SURGERY THROUGH TIME



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Hanno Millesi



Madjid Samii



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Algimantas
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Jayme
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BRACHIAL PLEXUS SURGERY THROUGH TIME

1836 BAUDENS - Direct suture of the terminal branches of the BP

1896 THOBURN - Direct suture of the ruptured spinal roots

1903 HARIS & LOW - Nerve transfer of the roots C6-C7 to C5

1913 TUTTLE - Spinal accessory nerve transfer

1920 VULPIUS & STOFFEL - Medial pectoral nerve transfer

1929 FOERSTER - Thoracodorsal nerve transfer

1940 LURJE - Thoracicus longus nerve transfer

1963 YEOMAN & SEDDON - Intercostal nerve transfer

1972 TSUYAMA & HARA - First large series of intercostal nerve transfer

1972 GU YU DONG - nerve transfer of the phrenic nerve

1986 GU YU DONG - contralateral transfer of the C7 root

1991 YAMADA -transfer of the anterior branches C3-C4 spinal roots

BRACHIAL PLEXUS SURGERY

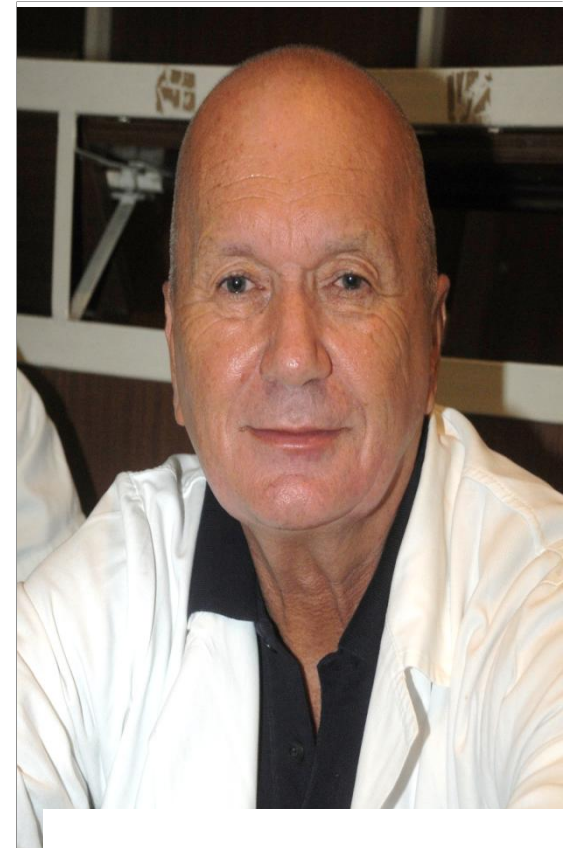
THROUGH TIME

MODERN-ERA REVOLUTION

- 1964 SMITH & KURZE** - operative microscope
- 1967 GOTO** - perineural suture
- 1967 MILLESI** - interfascicular transplantation
- 1972 NARAKAS** - cable graft
- 1991 SAMARDZIC** - modified cable graft

PERIPHERAL NERVOUS SYSTEM SURGERY IN SERBIA

- ❑ Modern peripheral nerve surgery in Clinic of Neurosurgery, Clinical Center of Serbia starts in 1976 with Professor Dr Miroslav Samardzic
- ❑ In 1980 the first nerve transfer was done in Serbia
- ❑ 1980-2016
- ❑ 3268 microsurgical reconstructions of the peripheral nerves:
 - 2780 peripheral nerve lesions
 - 488 brachial plexus lesions



MIROSLAV SAMARDZIC

PUBLICATIONS

Lessons learned over 25 years of practice

World Neurosurg. 2017 Apr 24. pii: S1878-8750(17)30607-1. doi: 10.1016/j.wneu.2017.04.099. [Epub ahead of print]

Iatrogenic Peripheral Nerve Injuries-Surgical Treatment and Outcome: 10 Years' Experience.

Rasulić L¹, Savić A², Vitošević F³, Samardžić M⁴, Živković B², Mićović M⁴, Baščarević V⁴, Puzović V⁵, Joksimović B², Novaković N⁶, Lepić M⁶, Mandić-Rajčević S⁷.

Neurosurg Rev. 2017 Apr;40(2):241-249. doi: 10.1007/s10143-016-0755-2. Epub 2016 May 30.

Nerve injuries of the upper extremity associated with vascular trauma-surgical treatment and outcome.

Rasulić L^{1,2}, Cinara I³, Samardžić M^{4,5}, Savić A⁵, Živković B⁵, Vitošević F⁶, Mićović M^{4,5}, Baščarević V^{4,5}, Puzović V⁷, Mandić-Rajčević S⁸.

Neurosurgery. 2002 Jun;50(6):1277-82.

Transfer of the medial pectoral nerve: myth or reality?

Samardžić M¹, Grujić D, Rasulić L, Bacetić D.

Acta Neurochir (Wien). 2002 Apr;144(4):327-34; discussion 334-5.

Restoration of upper arm function in traction injuries to the brachial plexus.

Samardžić M¹, Grujić D, Rasulić L, Milčić B.

Acta Neurochir (Wien). 2011 Oct;153(10):2009-19; discussion 2019. doi: 10.1007/s00701-011-1108-0. Epub 2011 Aug 18.

Nerve transfers using collateral branches of the brachial plexus as donors in patients with upper palsy--thirty years' experience.

Samardžić M¹, Rasulić LG, Grujić DM, Bacetić DT, Milčić BR.

Vojnosanit Pregl. 2012 Jul;69(7):594-603.

Collateral branches of the brachial plexus as donors in nerve transfers.

Samardžić M¹, Rasulić L, Lakićević N, Baščarević V, Cvrkota I, Mićović M, Savić A.



Acta Neurochir (Wien). 2017 May 24. doi: 10.1007/s00701-017-3205-1. [Epub ahead of print]

Outcome after brachial plexus injury surgery and impact on quality of life.

Rasulić L^{1,2}, Savić A³, Živković B³, Vitošević F⁴, Mićović M^{5,3}, Baščarević V^{6,3}, Puzović V⁶, Novaković N⁷, Lepić M⁷, Samardžić M^{6,3}, Mandić-Rajčević S⁸.

Injury. 1999 Jan;30(1):15-20.

Missile injuries of the sciatic nerve.

Samardžić MM¹, Rasulić LG, Vucković CD.

J Trauma. 1997 Oct;43(4):645-9.

Gunshot injuries to the brachial plexus.

Samardžić MM¹, Rasulić LG, Grujić DM.

Acta Neurochir (Wien). 1998;140(11):1177-82.

Results of cable graft technique in repair of large nerve trunk lesions.

Samardžić MM¹, Rasulić LG, Grujić DM.

Neurosurg Rev. 2015 Jan;38(1):205-9; discussion 209. doi: 10.1007/s10143-014-0587-x. Epub 2014 Oct 17.

A rare case of peripheral nerve hemangioblastoma—case report and literature review.

Rasulić L¹, Samardžić M, Baščarević V, Mićović M, Cvrkota I, Živković B.

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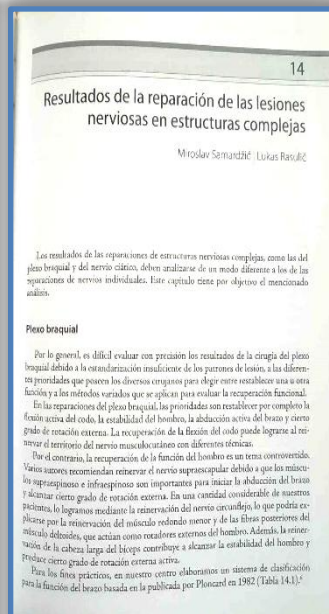
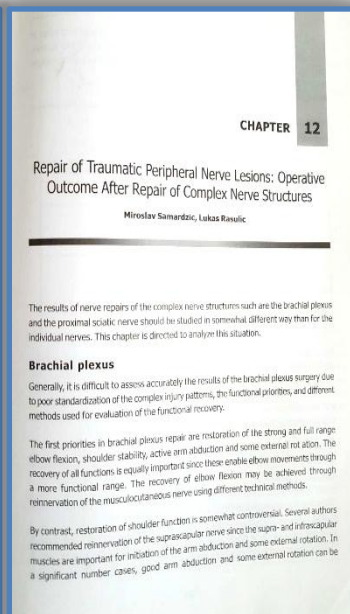
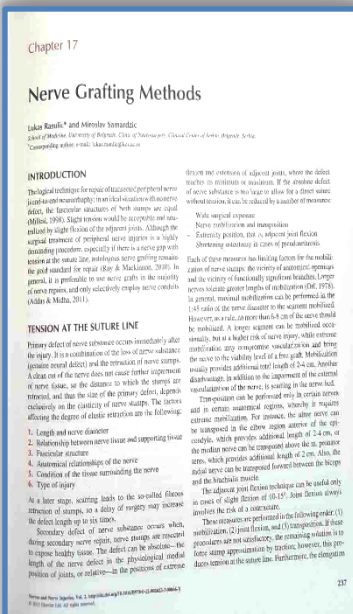
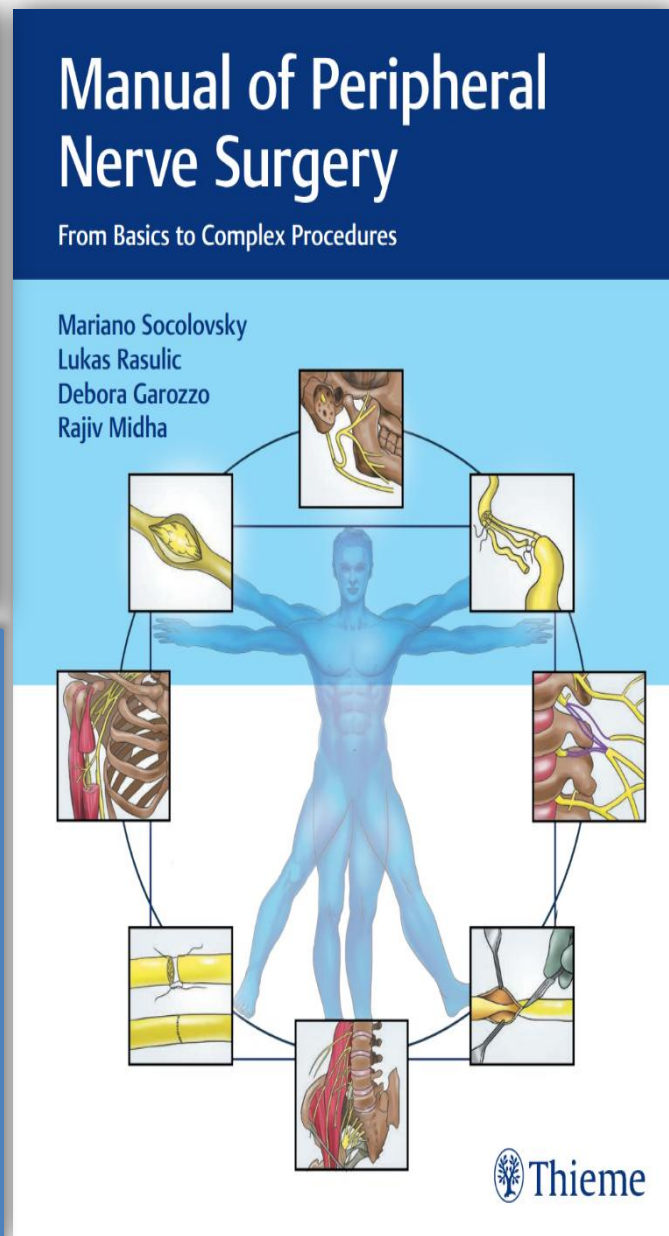
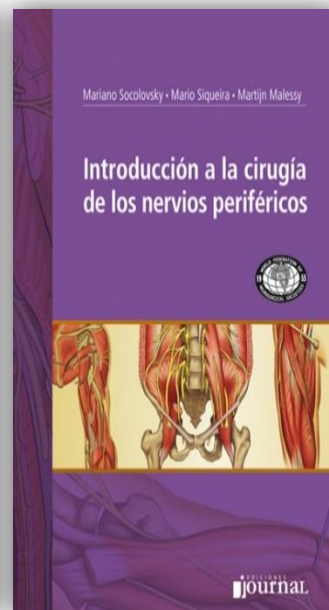
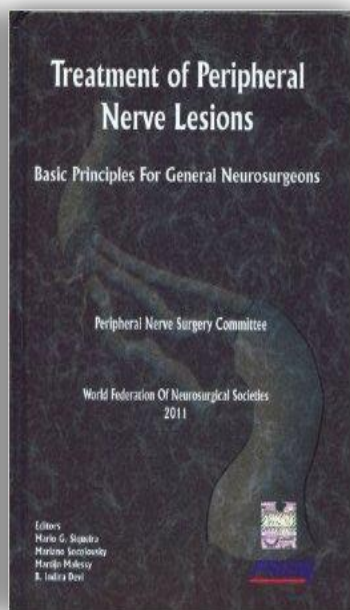
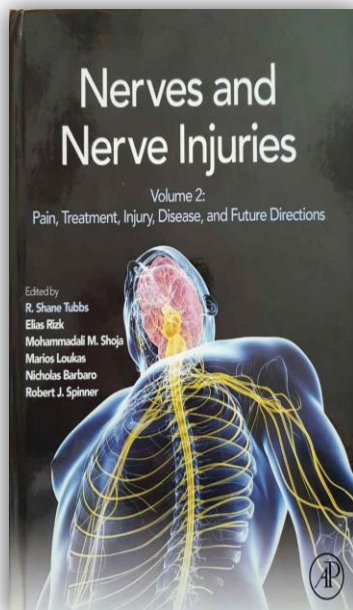
The use of thoracodorsal nerve transfer in restoration of irreparable C5 and C6 spinal nerve lesions.

Samardžić MM¹, Grujić DM, Rasulić LG, Milčić BR.

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Results of nerve transfers to the musculocutaneous and axillary nerves.

Samardžić M¹, Rasulić L, Grujić D, Milčić B.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- EANS was the only continental neurosurgical society without section for peripheral nerve surgery
- EANS Board, at their meeting in Gava, Spain, accepted initiative for establishing of EANS Section with Prof. Dr Lukas Rasulic as an Acting chairman
- This was finally approved at EANS 2017 General Assembly in Venice.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- Primary goals
 - Improving of knowledge and education in Peripheral Nerve Surgery among young generation,
 - Enabling fellowship and internship in terms of 3-6-12 month's education for young neurosurgeons who want to be involved in the peripheral nerve surgery, by establishing the cooperation between European and World centers of excellence in the field.
 - Multidisciplinary cooperation and collaboration
 - Raising an awareness about importance of PNS

EANS SECTION OF PERIPHERAL NERVE SURGERY

- Primary goals
 - Identifying the needs of developing countries and providing the professional support
 - Establishing of unified standard with level of neurosurgical technologies, which will be achievable and applicable in all countries, regardless the current state in which the country is
 - Improving quality of life and social impact
 - Establishing of new surgical subspecialization in the future, named **nerve surgeon**.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- **Specific goals and actions within the section:**
 - Organizing Meetings, Workshops, Hands-on Courses, etc. in European neurosurgical centers at least once a year
 - Carrying out publication activity: papers, books, monographs, under the name of the EANS
 - Elaborating scientific guidelines & protocols related to the peripheral nerve surgery
 - Encouraging interactive cooperation with similar sections of other neurosurgical societies
 - Encouraging innovation and creativity, collaboration and novel support for the EANS



EANS SECTION OF PERIPHERAL NERVE SURGERY

- **Specific goals and actions within the section:**
 - Developing ideas and organizing for specialty training courses
 - Holding a business meeting at least once a year
 - The presence of members of the Section at all important congresses and meetings
 - The number of members composing the Section will be reasonable, in accordance with its activity and purpose
 - The activities of the Section will be reported every year, etc.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- One of the goals is **establishing of cooperation not only within neurosurgical community but also within all specialties related to peripheral nerve surgery, such as orthopedics, microsurgery, reconstructive surgery, etc.**
- Letter of intent will be sent to all relevant European associations, such as:
 - European Federation of Societies for Microsurgery,
 - European Society for the Study of Peripheral Nerve Repair and Regeneration,
 - International Society of Orthopedic Surgery and Traumatology, etc.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- According to the initiative of Prof. Dr Gregor Antoniadis, one of the members of Section, Invitation letters were sent to German colleagues from German NervClub and we have already established the cooperation with this Society.



EANS SECTION OF PERIPHERAL NERVE SURGERY

- Members of Section, along with Chairman, will providing information about the following:
 - Mission/vision/action plan
 - Name/affiliation/contact of members
 - Meetings
 - Publications
 - The content for EANS web page and EANS newsletters



EANS SECTION OF PERIPHERAL NERVE SURGERY

- **Goals of the chair of the Section**
 - Clear definition of roles, responsibilities and expectations
 - Responsibility for function and work of Section
 - Support to the members of Section
 - Encouraging innovative and creative initiatives

MEMBERS (confirmed so far)

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1	Lukas Rasulic	Serbia	Chairman	lukas.rasulic@gmail.com
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27	Andrija Savic	Serbia	member	as1_1@hotmail.com
28	Damiano Giuseppe Barone	UK	member	baronedg@gmail.com
29	Inga Lubotzki	Germany	member	ingalubotzki@yahoo.com
30	Mariano Socolovsky	Argentina	Honorary member	marianosocolovsky@gmail.com

MEMBERS



Lukas Rasulic, Serbia



Miroslav Samardzic, Serbia



Gregor Antoniadis, Germany



Miguel Dominguez Paez, Spain



Maria Teresa Pedro, Germany



Thomas Kretschmer, Austria



Christian Heinen, Germany



Hans Assmus, Germany



Robert Behr, Germany

MEMBERS



Martin Bendszus, Germany



Javier Robla Costales, Spain



Josef Bohm, Germany



Kartik Krishnan, Germany



Cordula Matthies, Germany



Stefano Ferraresi, Italy



Debora Garozzo, Italy



Kåre Fugleholm, Denmark



Shimond Rockhind, Israel



Ridvan Alimehmeti, Albania



Willem Pondaag, Netherlands



Radek Kaiser, Czech Republic

MEMBERS



Pavel Haninec, Czech Republic



Ivan Humhej, Czech Republic



Marco Sinisi, UK



Damiano Giuseppe Barone, UK



Nora Dengler, Germany



Andrija Savic, Serbia



Juan Carlos Roa, Spain



Inga Lubotzki, Germany



Mariano Socolovsky, Argentina

Honorary member



EANS SECTION OF PERIPHERAL NERVE SURGERY

- 1st Business meeting of the EANS section of Peripheral Nerve Surgery was held in Belgrade, on November 1st 2017
- We are open for all suggestions and proposals regarding future activities.



**KEEP
CALM**

**RAISE AWARENESS
AND**

LOVE

**PERIPHERAL NERVE
SURGERY**



• **THANK YOU!**