

CURRICULUM VITAE

I. NAME

Kenan Arnautovic, MD, PhD, FAANS, FACS

WORKING ADDRESS:

Kenan Arnautovic, MD

Semmes-Murphey Neurologic & Spine Institute

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II. CURRENT POSITION

*Attending Neurosurgeon, Semmes-Murphey Neurologic & Spine Institute, Memphis, TN (2002-present)

*Professor, Department of Neurosurgery, University of Tennessee, Memphis, TN (2016-present)

*Chairman, Baptist Neuroscience Institute, Baptist Memorial Hospital, Memphis, TN (2013-present)

III. OUTSIDE UNIVERSITY FACULTY APPOINTMENTS

*Professor of Neurosurgery, Neurosurgery Department, JJS University of Osijek, Osijek Croatia (2014-present)

*Professor of Neurosurgery, Sarajevo Medical School, Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina (2014-present)

IV. EDUCATION

*School of Medicine, University of Sarajevo, Bosnia and Herzegovina (September, 1978 - January, 1984) DEGREE OBTAINED: Medical Doctor (M.D.)

*School of Medicine, University of Sarajevo, Bosnia and Herzegovina – Masters Degree: “The Fundamentals of Investigations in Medical Sciences“ (September, 1984 – July, 1986)

*Master Degree Thesis: *“The efficacy of the therapy with xantinole-nicotinate and corticosteroids for the injuries of spinal cord without compromising the spinal canal (SCIWORA)”* – Publicly presented for the Master Degree of Science Board of the School of Medicine, University of Sarajevo (December, 1988) DEGREE OBTAINED: Master Degree of Medical Sciences (Ms. Med. Sc.)

* School of Medicine, University Josip Juray Strossmayer, Osijek, Croatia – Ph.D. Degree Program (June, 2010 to April, 2012)

*Ph.D. Thesis: “Radical Circumferential 270° Microsurgical Decompression of Foramen Magnum as a Method of Surgical Treatment of Chiari I Malformation in Adults” – Publicly presented for the Ph.D. Degree of the Science Board of the School of Medicine, University of Josip Juray Strossmayer, Osijek, Croatia (April, 2012)

DEGREE OBTAINED: PhD of Medical Sciences

V. AWARDS AND HONORS

“Hasan Brkic” Sarajevo University Award for the “Best Medical Student of the Year.”

Awarded four times in four subsequent years (1979, 1980, 1981, and 1982)

“Dr. Bogdan Zimonjic” IV year Medical Student Award, School of Medicine, University of Sarajevo
(1982)

“Dean’s Award”, Best Medical Student of the Class, School of Medicine, University of Sarajevo
(1984)

“Patient’s Choice Award”, Memphis, TN (2007, 2008, 2009, 2010, 2011, 2012, 2015)

“Ambassador of the University of Sarajevo” Bosnia-Herzegovina (2010 to present)

*Baptist Hospital, Memphis, TN, Plaque for “Dedicated Service and Leadership in the Department of Surgery” (2011)

*Good Health Magazine, The Commercial Appeal, “Best Doctors Award” (2012)

“Most Compassionate Doctor Award”, Memphis, TN (2013)

“Top 10 Doctor” – State (2014)

“Top 10 Doctor” – Metro Area (2014)

“Top 10 Doctor” – City (2014)

“On Time Doctor Award” (2014)

“Top 10 Doctor” – State (2015)

*Outstanding Doctor of the Month”, SHA December (2015)

“Top 10 Doctor” – State (2016)

“Top 10 Doctor” – State (2017)

“Top 10 Doctor” – State (2018)

VI. NEUROSURGERY INTERNSHIP/ RESIDENT TRAINING

MEDICAL DOCTOR INTERNSHIP

Institute of Public Health of Canton Sarajevo, Bosnia and Herzegovina (June, 1984 – December, 1984)

RESIDENT NEUROSURGICAL TRAINING – (Two neurosurgical residency programs completed)

I. Bosnia-Herzegovina Board of Neurological Surgery:

Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia and Herzegovina:
(January, 1988 – December, 1992)

II. American Board of Neurological Surgery

Department of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas
(July, 1997 – December, 2002)

VII. OTHER NEUROSURGICAL/ MEDICAL TRAINING/ACTIVITY/COURSES

VISITING RESIDENT IN NEUROSURGERY:

*Department of Neurosurgery, NordStadt Hospital, Hannover, Germany (December, 1990)

ASSISTANT PROFESSOR OF EMERGENCY MEDICINE (Bosnia-Herzegovina):

College of Health Sciences, University of Sarajevo, Bosnia-Herzegovina (May, 1986 – December, 1987)

ATTENDING IN NEUROSURGERY (Bosnia-Herzegovina):

*Department of Neurosurgery, University Clinical Center, University of Sarajevo, Bosnia and Herzegovina (February, 1993 – June, 1994)

MEDICAL COURSES TAKEN:

1. Advanced Cardiac Life Support – ACLS (Little Rock, Arkansas, 1997)
2. Advanced Cardiac Life Support – ACLS (Memphis, Tennessee, 2004, 2006, 2007, 2008, 2009, 2010, 2012, 2014, 2016)
3. Epidemic: Prescribers' Response to Tennessee's Rx Drug Abuse Crisis, (June, 2012)

FELLOWSHIP IN NEUROSURGERY:

Skull Base Fellowship, Department of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas (August, 1994 – December, 1996)

Clinical Fellowship, Department of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas (January, 1997 – June, 1997)

NEUROSURGICAL COURSES TAKEN:

1. 2nd WFNS International Course on Clinical Neurosurgery, Hannover, Germany (December, 1990)
2. B R W – Image Guided Stereotactic System Course, Hannover, Germany (December, 1990)

3. 3rd WFNS International Course on Clinical Neurosurgery, Hannover, Germany (December, 1991)
4. Surgical Approaches to the Skull Base, St. Louis, Missouri (September, 1994)
5. Anterior Skull Base Approaches Practical Course, San Francisco, California (October, 1995)
6. Lateral Skull Base Approaches Practical Course, San Francisco, California (October, 1995)
7. Midas Rex Neurosurgical Practical Course, Fort Worth, Texas (December, 1995)
8. Leibinger Plating Systems Neurosurgical Practical Course, Little Rock, Arkansas (April, 1996)
9. Craniocervical Junction Practical Course, Minneapolis, Minnesota (April, 1996)
10. Lateral Approaches to the Skull Base Tumors Practical Course, Minneapolis, Minnesota (April, 1996)
11. Skull Base Practical Course, Little Rock, Arkansas (March, 1997)
12. Electrodiagnostic Spring Course, Little Rock, Arkansas (March, 1999)
13. Yasargil Microneurosurgical Course, Little Rock, Arkansas (April, 1999)
14. AO Interactive Spine Course, Davos, Switzerland (December, 2000)
15. Yasargil Microneurosurgical Course, Little Rock, Arkansas (February, 2001)
16. Clinician – Patient Communication to Enhance Health Outcomes, Little Rock, Arkansas (September, 2001)
17. Fundamental Principles and Techniques in Spinal Surgery, Memphis, Tennessee (January, 2002)
18. Minimally Invasive Osteoporotic Compression Fracture Treatment, Memphis, Tennessee (January, 2002)
19. Eliminating Errors in the OR, State Volunteer Mutual, Memphis, Tennessee (August, 2003)
20. AO Interactive Spine Course, Davos, Switzerland (December, 2003)
21. Charite` Artificial Disc Training, Cincinnati, Ohio (April, 2005)
22. Oral Board Preparation Course, St. Louis, Missouri (May, 2005)
23. Oral Board Preparation Course, Houston, Texas (November, 2005)

24. ABNS, MOC Cognitive Examination Preparation Course, Coral Gables, Florida (February 2013)
25. SI Primary Surgeon Training Program, New Orleans, LA (March, 2014)
26. Visualase Technical Training Course (November, 2015)
27. Optune training, Memphis, TN (May, 2017)

NEUROSURGICAL COURSES GIVEN (FACULTY/DIRECTOR):

1. Recent advances in approaches to sellar and parasellar pituitary tumors. Course Faculty, St. Louis, Missouri (October, 1997)
2. North American Skull Base Society Annual Meeting Practical Course. Course Co-Director, Little Rock, Arkansas (April, 1997)
3. North American Skull Base Society Annual Meeting Practical Course. Course Co-Director, Hawaii Big Island, Hawaii (March, 1998)
4. North American Skull Base Society Annual Meeting Practical Course. Course Co-Director, Chicago, Illinois (May, 1999)
5. Recent advances in approaches to sellar and parasellar pituitary tumors, Course faculty, St. Louis, Missouri (September, 1999)
6. Recent advances in approaches to sellar and parasellar pituitary tumors. Course Faculty, St. Louis, Missouri (October, 2000)
7. North American Skull Base Society Annual Meeting Practical Course. Course Faculty, Memphis, Tennessee (February, 2003)
8. North American Skull Base Society Annual Meeting Practical Course. Course Faculty, New Orleans, Louisiana (February, 2004)
9. American Board of Neurological Surgeons. Oral Board Preparation Course, Course Faculty, Houston, Texas (May, 2006)

10. Winter Clinics. Course faculty. Snowmass, Colorado (February, 2008)
11. American Board of Neurological Surgeons. Oral Board Preparation, Course Faculty, Houston, Texas (November, 2008)
12. Neurosurgical Approaches: Exploring the Brain Under Life-Like Conditions, Course Faculty, Little Rock, Arkansas (January, 2009)
13. Bosnian-Herzegovinian American Academy of Arts and Sciences. 1st Days of Bosnian-Herzegovinian American Academy of Arts and Sciences. Course Director. Sarajevo, Bosnia-Herzegovina. (October, 2009).
14. Bosnian-Herzegovinian American Academy of Arts and Sciences. 2nd Days of Bosnian-Herzegovinian American Academy of Arts and Sciences. Course Director. Tuzla, Bosnia-Herzegovina. (October, 2010).
15. Neurosurgical Approaches: 3D Live Surgery and Cadaver Dissection Under Life-Like Conditions, Course Faculty, Little Rock, Arkansas (April, 2011)
16. Bosnian-Herzegovinian American Academy of Arts and Sciences. 3rd Days of Bosnian-Herzegovinian American Academy of Arts and Sciences. Course Director. Zenica, Bosnia-Herzegovina (October, 2011)
17. Bosnian-Herzegovinian American Academy of Arts and Sciences. 4th Days of Bosnian-Herzegovina American Academy of Arts and Sciences. Course Director. Sarajevo, Bosnia-Herzegovina (April, 2012)
18. Neurosurgical Approaches: 3^o Live Surgery and Cadaver Dissection Under Life-Like Conditions, Course Faculty, Little Rock, Arkansas (November, 2012)
19. Bosnian-Herzegovinian American Academy of Arts and Sciences, International Neurosurgical/Spine Symposium, 5th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, Course Director Mostar, Bosnia-Herzegovina (April, 2013)

20. Bosnian-Herzegovinian American Academy of Arts and Sciences, 6th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, Neurosurgical and Spinal Symposium, Biac, Bosnia-Herzegovina (May, 2014)
21. Arkansas Neuroscience Institute, Unlocking the Cavernous Sinus, Hands-On Cadaver Workshop, Course Faculty, Little Rock, AR (August, 2014)
22. Arkansas Neuroscience Institute, Advanced Resident Neurosurgical Approaches – 3D Live Surgery and Cadaver Dissection Under Like Conditions, Course Faculty, Little Rock, AR (November, 2014)
23. Bosnian-Herzegovinian American Academy of Arts and Sciences, 7th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, Neurosurgical and Spinal Symposium, Brcko, Bosnia-Herzegovina, Course Director (April, 2015)
24. 26th Al-Mefty Annual Skull Base Approaches Course, Microscopic and Endoscopic, Course Faculty, St. Louis, MO (April, 2015)
25. Arkansas Neuroscience Institute, Unlocking the Cavernous Sinus, Hands-On Cadaver Workshop, Course Faculty, Little Rock, AR (August, 2015)
26. Arkansas Neuroscience Institute, Al-Mefty Annual Skull Base Approaches Course, Hands-On Cadaver Workshop, Course Faculty, Little Rock, AR (February, 2016)
26. Arkansas Neuroscience Institute, Al-Mefty Annual Skull Base Approaches Course, Hands-On Cadaver Workshop, Course Faculty, Little Rock, AR (February, 2016)
28. Bosnian-Herzegovinian American Academy of Arts and Sciences, 8th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, Neurosurgical and Spinal Symposium, Neum, Bosnia-Herzegovina, Course Director (May, 2016)
29. 1st Osijek Anterior Cervical Spine International Neurosurgical Course, Course Director, Osijek, Croatia, (October, 2016)

30. Arkansas Neuroscience Institute, Advanced Resident Neurosurgical Approaches – 3D Live Surgery and Cadaver Dissection Under Like Conditions, Course Faculty, Little Rock, AR (December, 2016)
31. Arkansas Neuroscience Institute, AI-Mefty Course: Microsurgery of Skull Base Tumors, Hands-On Cadaver Workshop, Course Faculty, Little Rock, AR (February, 2017)
31. 28th AI-Mefty Annual Skull Base Approaches Course, Microscopic and Endoscopic, Course Faculty, St. Louis, MO (April, 2017)
32. Bosnian-Herzegovinian American Academy of Arts and Sciences, 9th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, Neurosurgical and Spinal Symposium, Teslic, Bosnia-Herzegovina, Course Director (May, 2017)
33. Medtronic MERI Cervical Cadaver Course C3, Course Faculty, Memphis, TN (September, 2017)
34. Cerebrovascular and Skull Base Symposium, Harvard Medical School, Course Faculty, Boston, MA (October, 2017)
35. How to safely operate: In, through, and around the Cavernous Sinus, Course Faculty, Arkansas Neuroscience Institute, Little Rock, AR, (October, 2017)
36. 3rd International Multidisciplinary Medical Congress, Course Faculty, University of Tirana, Tirana, Albania (November, 2017)
37. 29th AI-Mefty Annual Skull Base Approaches Course, Microscopic and Endoscopic, Course Faculty, St. Louis, MO (April, 2018)
38. AANS, International Symposium – Tumor Session moderator, New Orleans, LA (April, 2018)
39. AANS Meeting, Chari Malformation: Diagnosis, treatments and failures, Course Faculty, New Orleans, LA, (April, 2018)
40. South East Europe Neurosurgical Society, Semmes Murphey Clinic, and The Department of Neurosurgery University of Tennessee: Leadership Symposium, Course Director, Memphis, TN (May, 2018)

VIII. LICENSURE/CERTIFICATION

- * MEDICAL DOCTORS STATE EXAMINATION: Passed Exam for State Medical Board of Ministry of Health of the Government of the Republic of Bosnia and Herzegovina (December, 1984)
- * NEUROSURGICAL BOARD EXAMINATION: passed Exam for Neurosurgical Board of the Ministry of Health of the Government of the Republic of Bosnia and Herzegovina (February, 1993)
- * USMLE Step I: Passed (October, 1995)
- * USMLE Step II: Passed (September, 1996)
- * USMLE Step III: Passed (December, 1998)
- *ARKANSAS STATE MEDICAL BOARD (June, 1999-present)
- *AMERICAN BOARD OF NEUROSURGERY PRIMARY WRITTEN EXAM: Passed for credit toward certification (March, 2001-present)
- *TENNESSEE STATE BOARD OF MEDICAL EXAMINERS (August, 2002-present)
- *AMERICAN BOARD OF NEUROSURGERY ORAL EXAM (Board Certified, November, 2005)
- *AMERICAN BOARD OF NEUROSURGERY, Maintenance of Certification (2005-present)
- *MISSISSIPPI STATE BOARD OF MEDICAL EXAMINERS (December, 2006-present)
- *AMERICAN BOARD OF NEUROSURGERY MOC Cognitive Examination – Passed (2013)
- *BOSNIA-HERZEGOVINA MEDICAL LICENSE (November, 2013-present)
- *ALABAMA STATE BOARD OF MEDICAL EXAMINERS (September, 2015-present)

IX: DIRECTOR OF INTERNATIONAL NEUROSURGERY FELLOWSHIP PROGRAM FOR SEMMES-MURPHEY CLINIC AND DEPARTMENT OF NEUROSURGERY UNIVERSITY OF TENNESSEE (2009 – present)

VISITING INTERNATIONAL NEUROSURGERY FELLOWS/PROFESSORS:

- *Alexander Sanikidze, MD, Moscow, Russia (August, 2009)
- *Goran Lakicevic, MD, Mostar, Bosnia-Herzegovina (November, 2010)
- *Bruno Splavski, MD, Osijek, Croatia (February, 2011)
- *Mirza Biscevic, MD, Sarajevo, Bosnia-Herzegovina (April, 2011)
- *Ibrahim Omerhodzic, MD, Sarajevo, Bosnia-Herzegovina (November, 2011)
- *Dario Muzevic, MD, Osijek, Croatia (May, 2013) (Ph.D. Committee President for Dr. Dario Muzevic, School of Medicine, JJS University of Osijek, Croatia)
- *Ibrahim Omerhodzic, MD, Sarajevo, Bosnia-Herzegovina (August, 2014)
- *Eldin Burazerovic, MD, Sarajevo, Bosnia-Herzegovina (December, 2014)
- *Bruno Splavski, MD, Osijek, Croatia, International Fellowship (April 2015)
- *Dario Muzevic, MD, Osijek, Croatia, International Fellowship (April 2015)
- *Irina Bagic, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Nikolina Grvavac, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Mateo Grigic, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Dragan Jankovic, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Marijana Kovacevic, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Marin Kuharic, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Vjenceslav Vrtaric, Medical Student Exchange, Osijek, Croatia, (April 2015)
- *Marko Kovacevic, MD, Osijek, Croatia, International Fellowship (September 2015)
- *Lukas Rasulic, MD, Visiting Professor, Belgrade, Serbia (May 2016)
- *Petar Vulekovic, MD, Visiting Professor, Novi Sad, Serbia (May 2016)
- *Jack Mullins, Medical Student/Research, Memphis, TN (August 2016)
- *Mirza Pojskic, MD, Marburg, Germany (February 2017)
- *Adi Ahmetpahic, MD, Sarajevo, Bosnia-Herzegovina (April 2017)
- *Kresimir Rotim, MD, Zagreb, Croatia (April 2017)
- *Tomislav Sajko, MD, Zagreb, Croatia (April 2017)

*Domagoj Gajski, MD, Zagreb, Croatia (February, 2018)

X. MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS AND ORGANIZATIONS

*Congress of Neurological Surgeons (1997 - present)

*American Association of Neurological Surgeons (2000 - present)

*North American Spine Society (2002 - present)

*Tennessee Medical Association (2003 - present)

*Tennessee Neurosurgical Society (2003 - present)

*Memphis and Shelby County Medical Society (2003 - present)

*Southern Neurosurgical Society (2004 – present)

*North American Skull Base Society (2005 - present)

*American College of Surgeons (2007 - present)

*Bosnian-Herzegovinian-American Academy of Arts and Sciences (2007 - present)

*Academy of Medical Sciences in Bosnia and Herzegovina (2012 – present)

*Croatian Medical Association (2014 – present)

*Croatian Neurosurgical Society – Member (2014 - present)

*Bosnia-Herzegovina Neurosurgical Association (2014 - present) (Honorary)

*Southeast Europe Neurosurgical Society (2015 - present) (Honorary)

*European Association of Neurosurgical Societies (2016 - present)

*Serbian Neurosurgical Society (2017 - present) (Honorary)

*Croatian Neurosurgical Society (2017-present) (Honorary)

XI. VOLUNTEER/ OFFICE POSITIONS IN NEUROSURGICAL/SCIENTIFIC/ MEDICAL ASSOCIATIONS

- *Marshals Committee, CNS Annual Meeting, Chicago, Illinois, October, 1994
- *Sergeant at Arms Committee, AANS Annual Meeting, Orlando, Florida, April, 1995
- *Marshals Committee, CNS Annual Meeting, San Francisco, California, October, 1995
- *Sergeant at Arms Committee, AANS Annual Meeting, Minneapolis, Minnesota, April, 1996
- *International Committee, CNS, 2003 – 2006
- *International Outreach Committee, AANS, 2007, 2010
- *Memphis Journal Review Club, Member, 2006 to present.
- *Memphis Journal Review Club, President, 2007, 2008,
- *Bosnian-Herzegovina American Academy of Arts and Science, Board Member, 2007-2012.
- *Bosnian-Herzegovinian American Academy of Arts and Sciences, President, 2010-2011.
- *Bosnian-Herzegovinian American Academy of Arts and Sciences, Advisory Board, 2012 to present.
- *Chairman, Department of Surgery, Baptist Memorial Hospital, Memphis, TN, 2011
- *Chairman, Division of Neurosurgery, Baptist Memorial Hospital, Memphis, TN, 2009- 2014.
- *Chairman, Neuroservice Line, Baptist Memorial Hospital, Memphis, TN, 2013 to present.
- *Vice-Chairman, International Committee, American Association of Neurological Surgeons, 2016 to 2017.
- *Chairman of the International Programs Committee, American Association of Neurological Surgeons, 2017 to present.
- *American Association of Neurological Surgeons, Scientific Program Committee Member, 2017 to present.
- *WFNS Web and Publication Committee Member (2017-present).

XII. INVESTIGATIONS, CLINICAL TRIALS

- *Medical Consultant, Dupuy Spine, 2005, 2006, 2007

*Prestige ST Cervical Disc, Medtronic, 2004, 2005, 2006

*Kineflex Cervical Disc, Spinal Motion, 2006, 2007, 2008, 2009

XIII. RESEARCH/LAB EXPERIENCE

*Research Fellow and Director of Skull Base Laboratory, Department of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas (August, 1994 – December, 1996)

XIV. JOURNAL PUBLISHING/EDITORIAL/REVIEW EXPERIENCE

*Assistant Editor of the CHIRURGIA NEUROLOGICA – Journal of Yugoslav Neurosurgical Association (1990-1992)

*Newsletter Editor, BHAAAS (2008, 2009)

*Web Site Editor, BHAAAS (2008, 2009)

*SpineLine, NASS, Editorial Board Member (2009 - 2016)

*Neurosurgery, Ad Hoc Reviewer (2013 - present)

*The Spine Journal, NASS, Editorial Advisory Board Member and Reviewer, (2010 -present)

*Acta Medica Saliniana, Reviewer (2010-present)

* Abstract Reviewer for NASS 26th Annual Meeting, Chicago, IL (2011)

*Abstract Reviewer for NASS 27th Annual Meeting, Dallas, TX (2012)

*Case Reports in Neurological Medicine, Editorial Board Member, (2011- 2016)

*Medical Archives, Editorial Board Member (2012 – present)

*Sanamed, Medical Journal Review Board Member, Novi Pazar, Serbia (2012-present)

*Contemporary Neurosurgery, Editorial Board Member (2013-present)

*Journal of Neurosurgical Sciences, Reviewer (2014 –present)

*Operative Neurosurgery, Associate Editor (2015 to present)

XV. PUBLICATIONS AND PRESENTATIONS

A. Publications

Articles:

1. Custovic K, Skljarevski V, Jurisic J, **Arnautovic KI**. Assessment of outcome of the trauma related cerebral coma. Proceedings of the 11th World Congress of the International Association for Accident and Traffic Medicine, Dubrovnik, Croatia: 329-332, 1998.
2. Custovic K, Skljarevski V, Jurisic, **Arnautovic KI**. Characteristics of cervical spinal injuries associated with head injuries. Proceedings of the 11th World Congress of the International Association for Accident and Traffic Medicine, Dubrovnik, Croatia: 333-337, 1998.
3. Custovic K, Skljarevski V, **Arnautovic KI**. Development, treatment and prognosis in acute traumatic subdural hematoma. Proceedings of the 11th World Congress of the International Association for Accident and Traffic Medicine, Dubrovnik, Croatia: 337-340, 1988.
4. **Arnautovic KI**, Konjhodzic F, Kadic N. Craniocerebral injuries in the complexity of the skiing injuries. Medicinski Arhiv 42: 303-307, 1988.
5. Kadic N, Custovic K, **Arnautovic KI**. Operative treatment of the cervical disc lesions using anterior approach without intervertebral fusion. Medicinski Arhiv 42: 281-285, 1988.

6. **Arnautovic KI**, Konjhodzic F. A conservative treatment of the isolated spinal cord injuries. Proceedings of the International Symposium on Spine and Spinal Cord Diseases and Injuries, Varazdinske Toplice, Croatia: 87-97, 1989.
7. Kadic N, Kundurovic I, **Arnautovic KI**. Syndrome of neurovascular compression in the upper thoracic outlet. Acta Chirurgica Jugoslavica 36: 662-664, 1989.
8. Gavranovic M, **Arnautovic KI**, Nuic A. Cerebrovascular disease in the senium. Proceedings of the II Bosnian Gerontological Symposium, Mostar, Bosnia and Herzegovina: 41-46, 1989.
9. Custovic K, Konjhodzic F, **Arnautovic KI**. Hematomas of gangliobasal and thalamic localization. Medicinski Arhiv 43: 125-129, 1989.
10. Kadic N, **Arnautovic KI**, Percutaneous lumbar diskectomy using CT scan as a radiological guide. Chirurgia Neurologica 1: 19-22, 1990.
11. Kadic N, **Arnautovic KI**. Ultrasound surgical resection of brain gliomas. Chirurgia Neurologica 1: 32-34, 1990.
12. **Arnautovic KI**. Spinal cord injury without radiological abnormality (SCIWORA): the incidence, pathology, clinical observation and treatment. Chirurgia Neurologica 1: 40-54, 1990.
13. Kadic N, **Arnautovic KI**. Percutaneous lumbar diskectomy guided by computer tomography. Advantages and disadvantages. Proceedings of the 2nd Course on Percutaneous Lumbar Diskectomy, Zagreb, Croatia: 85-92, 1991.

14. Pait T G, Killefer J A, **Arnautovic KI**. Surgical anatomy of the anterior cervical spine: The disc space, vertebral artery, and associated bony structures. *Neurosurgery* 39: 769-777, 1996.
15. **Arnautovic KI**, Al-Mefty O, Pait T G, Krisht A F, Husain M. Suboccipital cavernous sinus. *Journal of Neurosurgery* 86: 253-262, 1997 (Cover Article)
16. Pait T G, **Arnautovic KI**, Borba L A B. Microsurgical anatomy of the atlantoaxial region. *Perspectives in Neurological Surgery* 7: 91-98, 1997
17. Krisht A F, **Arnautovic KI**, Al-Mefty O. Current treatment of petroclival meningiomas. *Perspectives in Neurological Surgery* 8: 39-55, 1997.
18. **Arnautovic KI**, Al-Mefty O, Agntuaco E. The combined microsurgical skull base and endovascular approach to the giant and large paraclinoid aneurysms. *Surgical Neurology* 50: 504-520, 1998.
19. **Arnautovic KI**, Al-Mefty O, Agntuaco E, Phares LJ. Dural arteriovenous malformations acquired as a result of transverse-sigmoid sinus obstruction by the tumor: Report of two cases. *Neurosurgery* 42: 383-389, 1998.
20. Pait TG, Al-Mefty O, Boop FA, **Arnautovic KI**, Rahman S, Ceola W. Inside-outside technique for occipital and posterior cervical spine instrumentation and stabilization: Preliminary results. *Journal of Neurosurgery (Spine)* 90: 1-8, 1999 (Cover Article)
21. **Arnautovic KI**, Al-Mefty O, Husain M. Meningiomas of the ventral foramen magnum. *Neurosurgical Focus* 6: 1999.

22. **Arnautovic KI**, Krisht AF. Transverse-sigmoid dural arteriovenous malformations. Contemporary Neurosurgery 21: 1-5, 1999.
23. **Arnautovic KI**, Al-Mefty O, Husain M. Ventral foramen magnum meningiomas. Journal of Neurosurgery (Spine) 92: 71-80, 2000.
24. Pait TG, Castro I, **Arnautovic KI**, Borba LAB. Compound osteosynthesis in the thoracic spine for treatment of vertebral metastases. Technical report. Arquivos Neuro-Psiquiatria 58: 52-56, 2000.
25. **Arnautovic, KI**, Husain M, Linskey ME. Cranial nerve root entry zone primary cerebellopontine angle gliomas: a rare and poorly recognized subset of extraparenchymal tumors. Journal of Neuro-Oncology 49: 205-212, 2000.
26. **Arnautovic KI**, Al-Mefty O. Foramen magnum meningiomas. Part I: Definition, diagnostic approach, and perioperative protocol. Contemporary Neurosurgery 22 (22): 1-6, 2000.
27. **Arnautovic KI**, Al-Mefty O. Foramen magnum meningiomas: Part II: Surgical approaches, surgical anatomy, complications of treatment and results. Contemporary Neurosurgery 22 (23): 1-6, 2000.
28. **Arnautovic KI**, Al-Mefty O. Surgical seeding of chordomas. Neurosurgical Focus 10: Article 7, 2000.

29. **Arnautovic KI**, Krisht AF, Ligon BL. Management of missile peripheral nerve injuries. Part 1: History, pathophysiology, clinical presentation and diagnostics. Contemporary Neurosurgery 23 (11): 1-6, 2001.
30. **Arnautovic KI**, Krisht AF, Ligon BL. Management of missile peripheral nerve injuries. Part 2: Surgical management. Contemporary Neurosurgery 23 (12): 1-6, 2001.
31. **Arnautovic KI**, Al-Mefty O. Surgical seeding of chordomas. Journal of Neurosurgery 95: 798-803, 2001.
32. **Arnautovic KI**, Al-Mefty O. Primary jugular fossa meningiomas. Journal of Neurosurgery 97: 12-20, 2002 (Cover Article).
33. Krisht AF, Yoo K, **Arnautovic KI**, Al-Mefty O. Cavernous sinus tumor model in the canine: A simulation model for cavernous sinus tumor surgery. Neurosurgery 56: 1361-1366, 2005.
34. Al-Mefty R, Webber BL, **Arnautovic KI**, Intraneural perineurioma of the third cranial nerve: occurrence and identification. Journal of Neurosurgery 104: 824-827, 2006.
35. Al-Mefty R, **Arnautovic KI**, Webber BL., Multilevel bilateral calcified thoracic spinal synovial cysts. Journal of Neurosurgery (Spine) 8: 473-477. 2008.
36. **Arnautovic KI**, Arnautovic A., Extramedullary Intradural Spinal Tumors: A Review of Modern Diagnostic and Treatment options and a report of a series. Bosnian Journal of Basic Medical Sciences 9 (Suppl 1): 40-45, 2009

37. **Arnautovic, KI**, New from the Journals, In the Eye of the Beholder: Preferences of Patients, Family Physicians and Surgeons for Lumbar Spine Surgery. Spine 11:30-31, 2010
38. **Arnautovic, KI**, In My Own Words. Commercial Appeal, Memphis, TN, January, 2011
39. **Arnautovic, KI**, Olinger, R.G., Anterior Cervical Discectomy, Drainage and Non-instrumented Cortico-Cancellous Allograft Fusion: A Treatment Option for Ventral Cervical Spinal Epidural Abscess. Medical Archives 66: 194-197, 2012.
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93. **Arnautovic, KI** Cranio-Orbital Pretemporal Skull Base Approach to Sella/Juxtapellar Tumors, 28th Annual Skull Base Approaches: Microscopic and Endoscopic, St. Louis, MO, April, 2017.

94. 93. **Arnautovic, KI** Anatomic consideration for surgery of craniocervical junction, 28th Annual Skull Base Approaches: Microscopic and Endoscopic, St. Louis, MO, April, 2017.

95. **Arnautovic, KI** Suprasellar and Juxtapellar Tumors: Complications and Avoidance, American Association of Neurological Surgeons, Los Angeles, CA, April 2017.

96. **Arnautovic, KI** Introduction of Frederick Book, MD, the 85th President of the American Association of Neurological Surgeons, American Association of Neurological Surgeons, Los Angeles, CA April 2017.
97. **Arnautovic, KI** Cranio-Orbital Pretemporal Skull Base Approach to Sellar/Justasellar Lesions, 8th Congress of Croatian Neurological Society, Split, Croatia May 2017.
98. Kovacevic M, Splavski B, **Arnautovic, KI** The Value of Autologous Fat Grafting in Prevention of CSF-Related Complications Following Intradural Spinal Tumor Surgery, 8th Congress of Croatian Neurological Society, Split, Croatia May 2017.
99. **Arnautovic, KI** “Engaging the Millennial Resident in the Neurosurgery Training of the 21st Century – Overview of the Neurosurgery Resident in the USA”, School of medicine, University of Sarajevo, Bosnia-Herzegovina, May 2017.
100. **Arnautovic, KI** “Engaging the Millennial Resident in the Neurosurgery Training of the 21st Century – Overview of the Neurosurgery Resident in the USA”, School of medicine, Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina, May 2017.
101. **Arnautovic, KI** “Giant and Large Parafalcine Meningiomas” Paradigms of Treatment, School of medicine, University of Sarajevo, Bosnia-Herzegovina, May 2017.
102. **Arnautovic, KI** “Giant and Large Parafalcine Meningiomas” Paradigms of Treatment, 8th Congress of the Croatian Neurosurgical Society Joint Meeting with the Italian Society of Neurosurgery, May 2017.

103. **Arnautovic, KI** Parasagittal/Falx Meningiomas, WFNS , Istanbul, Turkey, August, 2017.
104. **Arnautovic, KI** Treatment of Intra-axial and Extra-axial Spinal Cord Tumors, WFNS, Istanbul, Turkey, August 2017
105. **Arnautovic, KI** Cerebrovascular and Skull Base Symposium, Harvard Medical School, Course Faculty, Boston, MA, October, 2017
106. **Arnautovic, KI** Cranio-Orbital Pretemporal Skull Base Approach to Sellar/Justasellar Lesions - Case Review, How to safely operate: In, through, and around the Cavernous Sinus, Arkansas Neuroscience Institute, Little Rock, AR, October, 2017
107. **Arnautovic, KI** Spinal Cord Tumors: Personal Experience Over 14 Years, 6th MASSIN Congress, Becici, Budva, Montenegro, October, 2017
108. **Arnautovic, KI** Skull base approaches and microsurgery of large and giant tumors of the posterior cranial fossa, 3rd International multidisciplinary Medical Congress, Tirana, Albania, November 2017.
- 109 **Arnautovic, KI** Cranio-Orbital Pretemporal Skull Base Approach to Sellar/Juxtapellar lesions, 3rd International multidisciplinary Medical Congress, Tirana, Albania, November 2017.
- 110 **Arnautovic, KI** Spinal Cord Tumors: Personal Experience over 14 years, Richard Lende Neurosurgery Conference, Snowbird, UT, February, 2018.

111 **Arnautovic, KI** Recurrent Meningioma after Gross Total Resection, North American Skull Base Society Annual Meeting, San Diego, CA, February, 2018.

112 **Arnautovic, KI** Combined Microsurgical, Endoscopic and Neuro-navigation Assisted Trans-Sphenoidal Resection of Pituitary Tumors: Our Experience, International Society of Pituitary Surgeons Conference, San Diego, CA, February, 2018

113 **Arnautovic, KI** Cranio orbital pre-temporal trans-cavernous approaches to juxtaseilar lesions, 29th Annual Skull Base Approaches: Microscopic and endoscopic, St. Louis, MO, April, 2018

114 **Arnautovic, KI** Chari Malformation: Diagnosis, treatments and failures, AANS Meeting, New Orleans, LA, April, 2018

POSTER PRESENTATIONS:

1. Pait TG, **Arnautovic KI**, Borba LA, McAllister P. Compound osteosynthesis in the thoracic spine for malignant tumor with a poor prognosis. Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves and the AANS, Phoenix, Arizona, February, 1995.
2. Krisht AF, Canbaz B, **Arnautovic KI**, Yoo K, Al-Mefty O. Giant invasive pituitary adenomas. AANS Annual meeting, Orlando, Florida, April, 1995.
3. **Arnautovic KI**, Al-Mefty O, Agntuaco E., Sakuta O. The combined microsurgical and endovascular approach for the treatment of giant ophthalmic aneurysms. The International Workshop on Cerebrovascular Surgery, Chicago, Illinois, June, 1995.

4. **Arnautovic KI**, Borba LA, Pait TG, Al-Mefty O, Krisht AF, Yoo K. The vertebral artery: Microsurgical anatomy of the occipito/C1-C2 segment. The International Workshop on Cerebrovascular Surgery, Chicago, Illinois, June, 1995.

5. Borba LA, **Arnautovic KI**, Ture U, Pait TG, Al-Mefty O. The microsurgical anatomy of the transcondylar approach to vascular lesions of the lower clivus and the craniocervical junction. The International Workshop on Cerebrovascular Surgery, Chicago, Illinois, June, 1995.

6. **Arnautovic KI**, Krisht AF, Pait TG, Yoo K, Al-Mefty O. The microsurgical anatomy of the radial nerve: Its relationships, micro-vascularization, and fascicular arrangement. CNS Annual Meeting, San Francisco, California, October, 1995.

7. **Arnautovic KI**, Krisht FA, Pait TG, Yoo K, Al-Mefty O. The microsurgical anatomy of the ulnar nerve: An anatomical study. CNS Annual Meeting, San Francisco, California, October, 1995.

8. **Arnautovic KI**, Pait TG, Krisht AF, Husain M, Al-Mefty O. The axillary nerve: Microsurgical anatomy, internal and external vascularization and structure. Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS and CNS, Lake Buena Vista, Florida, February, 1996.

9. Ture U, **Arnautovic KI**, Pait TG. Microsurgical anatomy of the costo-transverso-vertebral complex of the thoracic spine. Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS and CNS. Lake Buena Vista, Florida, February, 1996.

10. Ture U, Pait TG, **Arnautovic KI**. History of spinal cord localization. Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS and CNS. Lake Buena Vista, Florida, February, 1996.

11. **Arnautovic KI**, Pait TG, Krisht AF, Yoo K, Al-Mefty O. The vertebral artery: Microsurgical anatomy of the third segment. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

12. Pait TG, Laws ER, Borba LAB, **Arnautovic KI**, Krisht AF. Milestones in the medical and surgical history of the pituitary gland. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

13. **Arnautovic KI**, Krisht AF, Pait TG, Husain M, Yoo K, Al-Mefty O. The brachial plexus: Microsurgical anatomy, vascularization, and internal fascicular organization. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

14. **Arnautovic KI**, Krisht AF, Pait TG, Husain M, Yoo K, Al-Mefty O. The microsurgical anatomy of the musculocutaneous nerve. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

15. **Arnautovic KI**, Pait TG, Krisht AF, Husain M, Yoo K, Al-Mefty O. The median nerve: Microsurgical anatomy, and the surgical importance of its external and internal vascular organization and fascicular arrangement. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

16. Krisht AF, Yoo K, **Arnautovic KI**, Al-Mefty O. Dog cavernous sinus tumor model. AANS Annual Meeting, Minneapolis, Minnesota, April, 1996.

17. **Arnautovic KI**, Pait TG, Krisht AF, Husain M, Al-Mefty O. The sciatic nerve: Microsurgical anatomy, and the surgical importance of its internal and external vascularizations and fascicular arrangements. CNS Annual Meeting, Montreal, Canada, 1996.

18. **Arnautovic KI**, Krisht AF, Pait TG, Husain M, Al-Mefty O. The microsurgical anatomy, external and internal vascular organization, and fascicular arrangement of the tibial, peroneal and sural nerves. CNS Annual Meeting, Montreal, Canada, 1996.

19. **Arnautovic KI**, Al-Mefty O, Angtuaco E. Dural arteriovenous malformation acquired as a result of dominant venous sinus obstruction by a tumor: Report of two cases. AANS Annual Meeting. Denver, Colorado, 1997.

20. **Arnautovic KI**, Al-Mefty O, Krisht AF. The extended petrosal approach: Microsurgical anatomy and our clinical experience. AANS Annual Meeting, Denver, Colorado, 1997.

21. Malik JM, **Arnautovic KI**, Rahman S. The transsternal approach to the cervicothoracic spinal junction. AANS Annual Meeting, Denver, Colorado, 1997.

22. **Arnautovic KI**, Al-Mefty O, Pait TG, Krisht AF, Husain M. The suboccipital cavernous sinus. WFNS Congress, Amsterdam, Netherlands, 1997.

23. Krisht AF, Boop F, **Arnautovic KI**. The benefit of extracranial-intracranial bypass in patients with severe cerebrovascular occlusive disease and hemodynamic-related ischemia. Joint Section on Cerebrovascular Surgery Annual Meeting, Lake Buena Vista, Florida, 1998.

24. Pait TG, Laws ER, **Arnautovic KI**, Krisht AF. Pituitary surgery: The high road versus the low road. AANS Annual Meeting, New Orleans, Louisiana, 1999.

25. Pait TG, Caglar YS, Al-Mefty O, Ozgen S, **Arnautovic KI**, Burson TG. Applied anatomy of C2 for internal fixation options. CNS Annual Meeting, Boston, Massachusetts, 1999.

26. **Arnautovic KI**, Linskey ME. Cranial nerve root entry zone primary cerebellopontine angle gliomas. Annual Meeting of the Society for Neuro-Oncology, Scottsdale, Arizona, 1999.

27. **Arnautovic, KI**, Muzevic, D; Spavski B; Boop, F. Association of Increased Body Mass Index with Adult Chiari I Malformation and Syrinx Formation. CNS Annual Meeting, San Francisco, CA, 2013.

28. Omerhodzic, I, Ahmetspahic, A, Zahirovic, S, Rotim, K, **Arnautovic, KI**, Decompressive Craniectomy vs Hinge Craniotomy in patients with severe traumatic brain injury – A prospective study. The 11th Symposium of The International Neurotrauma Society, Budapest, Hungary, 2014.

29. Lakicevic, G, **Arnautovic KI**, Cerebellar Glioblastoma Multiforme Presenting as Hypertensive Cerebellar Hemorrhage: Case Report. 7th Congress of the Croatian Neurosurgical Society, Zabreb, Croatia, 2014.

30. N. Khan, G, Lakicevic, T. Callihan, G. Burruss, **Arnautovic KI**, Diffuse Large B-Cell Lymphoma of the Frontal Sinus Presenting as a Pott Puffy Tumor: Case Report, North American Skull Base, February, Tampa, FL., 2015.

31. **Arnautovic, KI**. Chiari Malformation Operative Treatment and Outcome , 83rd AANS Annual Scientific Meeting, Washington, D.C., May 2015.

32. Alabaster, KL, Bugg, MF, Splavski, B, Boop, FA, **Arnautovic, KI** The Suboccipital Ligament, American Association of Neurological Surgeons, Los Angeles, CA, April 2017.

33. Kovacevic, M, **Arnautovic, KI** Prevention of CSF related Complications after Intradural Spinal Tumor Surgery by an Autologous Fat Graft, EANS , Venice, Italy, October 2017.

XVI. INVITED LECTURES AND VISITING PROFESSORSHIP

1. **Arnautovic KI**. Department of Neurosurgery, Catholic University Sacre Cuore, Rome, Italy, June, 1999.

2. **Arnautovic KI**. Department of Neurosurgery, University of Arkansas for Medical Sciences, Little Rock, Arkansas, November, 2003.

3. **Arnautovic KI**. Department of Neurosurgery, University Clinical Center, Sarajevo, Sarajevo, Bosnia-Herzegovina, December, 2003.

4. **Arnautovic KI**. Department of Neurosurgery, University Clinical Center, Sarajevo, Sarajevo, Bosnia-Herzegovina, September, 2006.

5. **Arnautovic KI**, Department of Neurosurgery, University Clinical Center, Sarajevo, Sarajevo, Bosnia-Herzegovina, September, 2007.

6. **Arnautovic KI**, Bosnian-American Medical Association of Chicago, Chicago, IL, May, 2008.
7. **Arnautovic KI**, Department of Orthopedic Surgery, Northwestern University, Evanston, IL, May, 2008
8. **Arnautovic KI**, Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, February, 2009.
9. **Arnautovic KI**, Department of Orthopedic Surgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, March 2010.
10. **Arnautovic KI**, Department of Orthopedics, University Clinical Center, Sarajevo, Bosnia-Herzegovina, June 2010
11. **Arnautovic, KI**, Department of Neurosurgery, Yedittepe University, Istanbul, Turkey, July 2010.
12. **Arnautovic KI**. Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, October 2010.
13. **Arnautovic KI**. Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, June 2011.
14. **Arnautovic KI**, Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, June 2012.

15. **Arnautovic KI**. Department of Neurosurgery, Brigham and Women's Hospital, Harvard University, Boston, MA, October 2012.
16. **Arnautovic KI**, Days of Academy of Medical Sciences of Bosnia-Herzegovina, Sarajevo, Bosnia-Herzegovina, June 2013.
17. **Arnautovic KI** Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, November 2013.
18. **Arnautovic KI** Department of Neurosurgery, University Clinical Center, Osijek, Croatia, November 2013.
19. **Arnautovic KI** Department of Neurosurgery, University Clinical Center, Sarajevo, Bosnia-Herzegovina, May 2014.
20. **Arnautovic KI** Arkansas Neuroscience Institute, Little Rock, AR, August 2014.
21. **Arnautovic KI** Arkansas Neuroscience Institute, Little Rock, AR, November 2014.
22. **Arnautovic KI** Sarajevo Medical School at Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina, November 2014.
23. **Arnautovic KI** Department of Neurosurgery, School of Medicine Osijek University, Osijek, Croatia, November 2014.

24. **Arnautovic KI** Sarajevo Medical School at Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina, April, 2015.

25. **Arnautovic KI** Sarajevo Medical School at Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina, May, 2016.

26. **Arnautovic KI** Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, September, 2016.

27. **Arnautovic KI** Arkansas Neuroscience Institute, Little Rock, AR, February, 2017.

28. **Arnautovic KI** Sarajevo Medical School at Sarajevo School of Science and Technology, Sarajevo, Bosnia-Herzegovina, May, 2017.

29. **Arnautovic KI** Sarajevo Medical School at University of Sarajevo, Sarajevo, Bosnia-Herzegovina, May, 2017.

30. **Arnautovic KI** Arkansas Neuroscience Institute, Little Rock, AR, October, 2017.

31. **Arnautovic KI** Department of Neurosurgery, University Hospital, Tirana, Albania, November, 2017.

XVII. NEUROSURGICAL AREAS OF PARTICULAR INTEREST

Micro-neurosurgery (Skull Base; Vascular; Tumor; Peripheral Nerves)

Complex Spinal Surgery Instrumentation

Microsurgical Anatomy

Neuro-navigation

XVIII. PERSONAL AND HOBBIES

Sports: Basketball; Soccer; Snow-Skiing;

Reading: World History

Languages: English, Bosnian; German; Latin.

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