



CURRICULUM VITAE

Dr. Afsoun Seddighi, Neurosurgeon

PERSONAL INFORMATION

Business Address: Shohada Tajrish Hospital, Shahid
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EDUCATION:

Medical School: Shahid Beheshti University, 1990-1997 M.D

Thesis: Therapeutic Effects of Laser Photocoagulation in Diabetic Macular Edema

Residency: Department of Neurosurgery, Shohada Hospital, Shahid Beheshti University of Tehran, 1998-2004

Chief Resident of Neurosurgery, 2003-2004

Thesis: Therapeutic Effects of Thalamic Electrical Stimulation in Parkinson's Disease

Professional Licenses & Certification:

Board Certified. Iranian Board of Neurosurgery, August 2004.

ACADEMIC APPOINTMENTS:

2004-2005 Neurosurgeon, Mazandaran University of Medical Sciences, Imam Khomeini Hospital.

2005 – 2012 Assistant Professor of Neurosurgery, Qazvin University of Medical Sciences

2012 till 2015 : Assistant Professor of Neurosurgery, Shahid Beheshti University of Medical Sciences

2015 till now: Associate Professor of Neurosurgery , Shohada Tajrish Hospital, Shahid Beheshti University of Medical Sciences.

Membership in Societies:

- Medical Council of Iran
- Iranian Society of Surgery
- Iranian Neurosurgical Association

- Functional Neurosurgery Research Center of Shohada Tajrish Hospital
- AO Spine Association
- Mortality Committee in Shohada Tajrish Hospital
- Member of Shohada Tajrish Neurosurgical Center of Excellence

Awards/Honors:

Ranked as the 3rd Neurosurgeon in the Iranian Board Examination 2004

Thesis Supervisor Professor:

- Comparison of local versus systemic steroids in clinical outcome after lumbar discectomy. Mostafa Ansari Ramandi. Thesis No: 874. 2012.
- Prophylactic Effect of Tranexamic Acid in reduction of bleeding in major spine surgeries. Borzuyeh Naji. Thesis No: 939. 2011.
- Comparison between Propofol and Nesdonal in reduction of raised intracranial pressure in patients with severe head injury. Written by Dr. Parviz Mohammadzadeh. Thesis No: 286, 2013.
- Radioguided surgery using gamma detection probe technology for resection of cerebral glioma. Dr. Mohammad Mehdi Soleymani 2013.
- Evaluation the EMG and Urodynamic findings in prediction of the prognosis of patients with cauda equine syndrome, Dr. Mohammad Reza Shahmohammadi , 2013
- Comparison of surgical and nonsurgical treatment in patients with cerebral arteriovenous malformation. Dr. Reza Alereza Amiri 2013.
- Prophylactic Effect of Tranexamic Acid in reduction of bleeding in spine fusion surgeries. Dr. Ebrahim Asheghi . Thesis No: 939. 2011

- The role of CSF in the differentiation of epithelial cells of choroid plexus in patients with traumatic head injury. 2016
- Intraoperative Radiation Therapy in Cerebral High Grade Glioma in Iran. Dr. Amir Hossein Zohrevand. 2016
- Neuroregenerative effects of olfactory ensheathing cells transplanted in a multi-layered conductive nanofibrous conduit in peripheral nerve repair in rats.2016

PUBLICATIONS:

Books:

- Neurovascular Surgery , A Modern Approach : Amir Saied Seddighi, Alireza Zali, Afsoun Seddighi, Hesam Rahimi, Makan Shalchizadeh, Mehrdad Amiri, Amir Esfandi, 2011 , ISBN: 9789647447468
- Sterile Techniques for the Surgical Technologists: Dr. Afsoun Seddighi, Ali Fasihi Ramandi, Rahim Habibi, 2013, ISBN: 2881964
- Pediatric Neurological Disorders, 2013, Iranian Child Neurology Society. ISBN: 3075404
- Family Guide for Pediatric Neurological Disorders , Iranian Child Neurology Society , 2013, ISBN: 2875239.
- Diagnosis and management of Pituitary Adenoma. Chapter 8: Endoscopic Transsphenoidal Surgery in Pituitary Adenoma. 2015. ISBN: 3634095.
- Illustrated Case Reports in Neurology. Co Author.

Editor:

- Global Journal of Surgery
- International Clinical neuroscience Journal

Reviewer :

- Iranian Journal of Cancer prevention
- International Clinical Neuroscience Journal

Farsi Papers:

١. Dehghan MH, Seddighi A, Seddighi AS. The Effect of Lasertherapy in Diabetic Macular Edema. Journal of Ophthalmology, VOI 3, No 3 Spring 1998, 192-200.
٢. Tabatabaie SM, Seddighi A, Sohrabi S. Therapeutic Outcome of 19599 patients with back pain (1979-2000), Pejouhandeh; 6 (5), 405-410, 2001.
٣. Tabatabaie SM, Seddighi A. Evaluation of the Etiology of Shunt Revisions in Hydrocephalic Patients in Shohada Hospital. J Med Coun IRI, 20 (4), 252-260, 2003.
٤. Borzouyeh F, Seddighi A, Mohammadi AM. Outcome of Surgical Treatment of 85 Patients with Intracranial Aneurysms in Shohada Hospital. Pejouhandeh; 9(40), 203-207, 2004.
٥. Tabatabaie SM, Seddighi A, Seddighi AS, Surgical outcome of Intracranial Meningioma, A 26 Y Review. Pejouhandeh, 11(53), 275-284, 2006.
٦. Tabatabaie SM, Seddighi A, Seddighi AS, Long -term Results of Surgical Treatment of Medulloblastoma in 41

Patients. A 23 Y Study. *Pejouhandeh*, 11(52), 205-210, 2006.

٧. Tabatabaie SM, Seddighi A, Seddighi AS. Surgical Results of Anterior Fusion Using Cage Filled with Novabone Mixed with Autologous Bone Graft in Cervical Disc Disease. *Pejouhandeh*, Vol 12, No 5(59), Jan 2008, 367-375.
٨. Seddighi A, Tabatabaei M, Seddighi AS, Tabatabaeifar M. 4. Long-term Outcome of Surgical Resection of Spinal Cord Tumors: A 26 Y Review. *Pejouhandeh* Vol 13, No 1(61), March & April 2008, 39-46.
٩. Extramedullary Hematopoiesis Presenting as Compressive Intracranial and Spinal Lesions. *Journal of Medical Council of Islamic Republic of Iran*. Vol 26, No 1, 1387(2008): 113-118.
١٠. Tabatabaei SM, Seddighi A Surgical Results of Post Fossa Epidermoid Tumors. A 25 Y study. *Pejouhandeh*, Vol 14, No 5(71), Dec 2009, 275-281.
١١. Tabatabaei SB, Seddighi A, Seddighi AS. Social and Psychologic disorders in Patients with Brain Tumor. *Iranian Journal of Surgery*. 17 (3), 1388. 1-8.
١٢. Tabatabaie SM, Seddighi A, Seddighi AS. Surgical Results of Spinal Axis Tumors. *Journal of Tabriz University of Medical Sciences*. Vol 31, No 9, 2009, 57- 60.
١٣. Seddighi A, Seddighi AS. Lateral sacral meningocele presentation as a Gluteal Mass. *JQUMS*, Vol.13, No.2, Summer 2009.

English Papers

١. Seddighi A, Seddighi AS, Dehghan MH. Laser Photocoagulation in Diabetic Macular Edema,; Acta Medica Iranica, ;37 (1), 11-17, 1999.
٢. Mohseni M, Seddighi A, Seddighi AS Report on Surgical Results of 56 Cases with Far Lateral Lumbar Disc Herniation. World Spine Journal ; 2 (4) 2007, 190-192.
٣. Nourmohammad Arefian, Amir Saied Seddighi, Afsoun Seddighi Clinical Analysis of EEG Parameters in Prediction Of The Depth Of Anesthesia In Different Stages: A Comparative Study. The Internet Journal of Anesthesiology, 15, 1. 2006.
٤. Tabatabaei SM, Seddighi A. Pediatric Head Injury. Iranian Journal of Child Neurology, Vol 2, No 2, Feb 2008, 7-13.
٥. Arefian NM, Seddighi A , Seddighi AS , Nobahar MR Depression in the Nurses of the Special Wards versus Nurses of the General Wards, a Comparative Study. IJCP, Vol 2, No 3, Summer 2009. 151-154
٦. Seddighi A, Seddighi AS .Disproportionate Correlation between imaging and outcome in a patient with cerebral abscess. Central European Journal of Medicine. Vol 5, No 4, 2010.504-507.
٧. Seddighi A, Seddighi AS. Lateral sacral meningocele presenting as a Gluteal Mass a case report. Journal of Medical Case Reports, 2010, 4:81.

٨. Seddighi A, Seddighi AS, Ashrafi F, Nohehsara S. Neuropsychological Disorders in Patients with Brain Tumor. IJCP, Vol 3, No 1, Winter 2010, 42-47.
٩. Shokrzadeh A. Seddighi A, Seddighi AS . Comparison of Proximal Injections of Local Anesthetics with Distal Injections in Intravenous Block Global Journal of Health Science Vol. 2, No. 2; October 2010, 215-217.
١٠. Shokrzadeh A. Seddighi A, Seddighi AS . Therapeutic Results of Transcutaneous Electrical Nerve Stimulation in Post Laminectomy Syndrome. Global Journal of Health Science Vol. 2, No. 2; October 2010 Vol. 2, No. 2; October 2010, 137-141.
١١. Extramedullary hematopoiesis presenting as a compressive cord and cerebral lesion in a patient without a significant hematologic disorder: a case report. Seddighi A, Seddighi AS. Journal of Medical Case Reports, 2010, 4:1 ,319.
١٢. Afaghi V, Afaghi A and Seddighi . DIET AND BRAIN TUMOR: AN EPIDEMIOLOGICAL STUDY. A Current Topics in Nutraceutical Research 8 (2/3): 2010, 65-68.
١٣. Seddighi A S. Golzan S M. Seddighi A. Zali A R. Afaghi V. Developing a Bedside Software for Digitizing Paper Based Medical Data in Intensive Care Settings.

Global Journal of Health Science. Vol. 3, No. 1; April 2011: 9-18.

١٤. Seddighi A. Seddighi A S. Zali A R. Afaghi V. Study of the Role of Nova Bone as a Filling Material in Cervical Cage in Anterior Fusion of Cervical Spine in Patients with Degenerative Cervical Disc Disease Global Journal of Health Science. Vol. 3, No. 1; April 2011: 155-160.
١٥. Tabatabaei S M. Seddighi A, Seddighi AS. Head Injury. Iran Red Crescent Med J 2011; 13(6):382-391.
١٦. Seddighi A. Seddighi A S. Zali A R. Afaghi V. Afaghi A. Ashrafi F. Therapeutic effects of thalamic electrical stimulation in Parkinson's disease. Global Journal of Health Science Vol. 3, No. 2; October 2011.102-108
١٧. Seddighi A. Seddighi A S. Zali A R. Rahimi Baghdashti H. Presentation of a minimally symptomatic large extradural hematoma in a patient with an arachnoid cyst: a case report and review of the literature . Journal of Medical Case Reports 2011, 5, 1:581
١٨. Arefian N. Seddighi AS. R. Seddighi A. Zali A. Accuracy of Combined EEG Parameters in Prediction the Depth of Anesthesia. Iranian Red Crescent Medical Journal. 2012 December; 14(12): 833-837.

١٩. Ebtehaj M. Yaqubi S. Seddighi AS, Seddighi A. Yazdi N. Correlation between BIS and GCS in patients suffering from head injury. *Ir J Med Sci.* 2012 Mar;181(1):77-80. Epub 2011 Nov 1.
٢٠. Seddighi AS, Moqareh A. Sedddighi A, Zali AR. Accuracy of noninvasive intracranial pressure measurement. *Cent. Eur. J. Med.* 7(2) 2012: 169-175
٢١. Zali AR. SeddighiAS. Seddighi A. Ashrafi F. Comparison of the Acute Physiology and Chronic Health Evaluation Score (APACHE) II with GCS in Predicting Hospital Mortality of Neurosurgical Intensive Care Unit Patients. *Global Journal of Health Science* Vol. 4, No. 3; 2012
٢٢. Tabatabaei SM, Seddighi A, Sedighi AS. Posterior Fossa Tumors in Children. *Iranian J of Child Neurology.* Iran. J. Child. Neurol 2012;6(2): 19-24.
٢٣. Tabatabaei SM, Seddighi AS, Seddighi A, Gholami A, Rahimi B H, Shalchizadeh M. Clinical Results of 30 Years Surgery On 2026 Patients with Lumbar Disc Herniation. *World Spinal Column Journal*, Volume 3 / No: 3 / September 2012.
٢٤. Seddighi A. Seddighi As. Rahimi H. Asymptomatic presentation of huge extradural hematoma in a patient with arachnoid cyst. *British Journal of Neurosurgery*, 2012; December 2012, Vol. 26, No. 6 , Pages 917-918 (doi:10.3109/02688697.2012.680623)
٢٥. Amir Saied Seddighi, Rouzbeh Motiei-Langroudi ,

Homa Sadeghian , Mohsen Moudi , Alireza Zali ,
Ebrahim Asheghi , Reza Alereza-Amiri , Afsoun
Seddighi. Factors predicting early deterioration in mild
brain trauma. A prospective study. Brain Injury. 2013,
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۲۶. Zahra Farshidfar, Fariborz Faeghi, Mostafa Mohseni,
Afsoun Seddighi, Homayoun Hadizadeh Kharrazi ,
Jamil Abdolmohammadi. Diffusion tensor tractography
can affect treatment strategy to remove brain
occupying mass lesions. Neuroradiol J. 2014 Feb;
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۲۷. Aisa Rassoli, Mohammad Shafigh, Amirsaeed
Seddighi, Afsoun Seddighi, Hamidreza Daneshparvar,
Nasser FatouraeBiaxial Mechanical Properties of
Human Ureter under Tension. Vol. 11 No. 02 March-
April 2014. 1666-1674.

۲۸. Afsoun Seddighi , Amir Saied Seddighi , Omid
Mellati, Jahangir Ghorbani, Nasim Rad,
Mohammad Mehdi Soleimani. Sphenoid Sinus:
Anatomic Variations and Their importance in Trans-
sphenoid Surgery. International Clinical Neuroscience
Journal 2014; Vol 1, No 1, Page: 34-38

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Sadegh Azar, Ebrahim Asheghi, Reza Alereza Amiri.
Post Surgical Pseudomeningocele in a Patient with
Cervical Neurinoma; a case report and literature review.
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۳۱. Afsoun Seddighi, Mohammad Esmail Akbari, Amir Saied Seddighi, Afshin Rakhsha, Marjan Vaezi, and Amir Hossein Zohrevand, First Experience of Intraoperative Radiation Therapy in Cerebral High Grade Glioma in Iran: A Report of Three Cases and Literature Review. Iran J Cancer Prev. 2015 Oct; 8(5): e3795. 2015 Oct 27. doi: 10.17795/ijcp-3795. Pub Med
۳۲. Afsoun Seddighi , Amir Saied Seddighi , Hesam Rahimi Baghdashti , Mehrnush Vahidi , Mahsa Ashrafi , Mohmmad Yousef Yaghubi. Intracranial aneurysm surgery: a case series. ICNSJ 2015; 2 (1):36-39
۳۳. Houman Teymourian, Seyed Amir Mohajerani, Parisa Bagheri, Afsoun Seddighi, Amir Saied Seddighi, Iman Razavian. Effect of Ondansetron on Postoperative Shivering After Craniotomy. December 2015 Volume 84, Issue 6, Pages 1923–1928, ISI
۳۴. Afsoun Seddighi, Marjan Vaezi, Shoeib Naimian, Fatemeh Yourdkhani, Amir Saied Seddighi, Omid Mellati, Amirhossein Zoherhvand. BRAIN TUMORS IN ELDERLY. ICNSJ 2015; 2 (2):55-65

۳۵. Afsoun Seddighi , Amir Nikouei , Amir Saied Seddighi , Shoeib Naeimian , Omid Mellati , Fatemeh Yourdkhani , Iman Razavian , Reza Alereza Amiri , Amir Hossein Zohrehvand , Saeed Orai Yazdani , Davood Ommi , Alireza Sheykhi , Mohammad Ali Fazeli , Maryam Sadat Beheshtian. Outcome of patients with Foramen Magnum Meningioma. ICNSJ 2015; 2 (2):71-73.
۳۶. Afsoun Seddighi MD, Amir Saied Seddighi MD, Amir Nikouei MD, Farzad Ashrafi MD, Shabnam Nohesara MD. Psychological aspects in brain tumor patients: A prospective study. HJNM 2015; 18(Suppl1); 63-67. ISI
۳۷. Afsoun Seddighi, Mohammad Esmail Akbari , Amir Saied Seddighi , Elaheh Pirayesh , Mohammad Mehdi Soleymani , Hesam Rahimi Baqdashti , Amir Nikouei MD, Alireza Zali , Seyed Mahmood Tabatabaei , Shoeib Naimian , Omid Mellati , Alireza Sheikhi Radioguided surgery using gamma detection probe technology for resection of cerebral glioma. HJNM 2015; 18(Suppl1); 68-75 ISI
۳۸. Afsoun Seddighi, Mohammmad Ali Fazeli, Amir Saied Seddighi. Direct Carotid-Cavernous Sinus Fistula Following Closed Head Injury. ICNSJ 2015; 2 (3) :111-113
۳۹. Afsoun Seddighi , Amir Nikouei , Amir Saied Sedighi1, Ali Reza Zali1, Fatemeh Yourdkhani ,Seyed Mahmood Tabatabaei , Ali Reza Sheykhi , Shoayb

Naeimian , Davood Ommi .Neurocysticercosis: Manifestations, Diagnosis and Treatment. ICNSJ 2015; 2 (4) :121-127

٤٠. Amir Saied Sedighi , Ali Reza Zali , Afsoun Seddighi , Maryam Sadat Beheshtian ,Seyed Ali Reza Sheykhi , Davood Ommi , Shoeib Naimian , Fatemeh Yourdkhani , Mahmood Tabatabaei .A Survey on Cortical Bone Trajectory for Spinal Fusions. ICNSJ 2015; 2 (4) : 117-120
٤١. Hamideh Esmailpour, Ali Esteki, Afsoun Seddighi. Quantitative Assessment of Deep Brain Stimulation on Tremor in Multiple Sclerosis Disease. ICNSJ 2015; 2 (3) :87-90
٤٢. Afsoun Seddighi, Amir Nikouei, Amir Saied Seddighi, Ali Reza Zali, Seyed Mahmood Tabatabaei, Ali Reza Sheykhi, Fatemeh Yourdkhani, Shoayb Naeimian. Peripheral Nerve Injury: A Review Article. ICNSJ 2016; 3 (1):1-6
٤٣. Mahsa Abdi Bastami , Mana Hosseini Bay , Afsoun Seddighi. Relation of nature and environment with pleasant emotions of humans in daily life. ICNSJ 2016; 3 (1) :32-38
٤٤. FAZELI, Mohamad Ali; ASHRAFI, Farzad; FAROKHI, Mehdi. Cortical Ependymoma with Extension to Thalamus. International Clinical Neuroscience Journal, [S.l.], v. 3, n. 2, p. 120-123, sep. 2016. ISSN 2383-2096.
doi:<https://doi.org/10.22037/icnj.v3i2.13734>.

٤٥. Afsoun Seddighi , Amir Saied Seddighi , Hesam Rahimi Baghdashti , Alireza Sheikhi , Shoeib Naimian. The Role of Steroid in Post Myelography Headache. ICNSJ 2016; 3 (2) :108-112
٤٦. Seddighi Afsoun, Seddighi Amir Saied, Nikouei Amir, Javadian Hamed. En-bloc resection of a giant cell tumor causing cervical vertebral collapse. Asian j of Neurosurgery. June 24, 2016, IP: 5.52.61.214
٤٧. Afsoun Seddighi, MD,a Amir Saied Seddighi, MD,a Amir Nikouei, MD. The Results of Image Guided Surgery Using Neuronavigation in Resection of Cerebral Gliomas in Eloquent Cortical Areas. Archives of Physical Medicine and Rehabilitation 2016;97(10):e69-e70
٤٨. Afsoun Seddighi, Amir Saied Seddighi, Amir Nikouei, and Gholamreza Mohseni. NS-06 IMAGE GUIDED SURGERY USING NEURONAVIGATION SYSTEM IN RESECTION OF CEREBRAL GLIOMAS INVOLVING ELOQUENT CORTICAL AREAS IN PEDIATRIC POPULATION. Neuro-Oncology 18:iii127-iii134, 2016. doi:10.1093
٤٩. Afsoun Seddighi, Amir Saied Seddighi, Hesam Rahimi Baghdashti, Alireza Sheikhi, Shoeib Naimian. The Role of Steroid in Post Myelography Headache. ICNSJ 2016; 3 (2) :108-112
٥٠. Amir Saied Seddighi, Afsoun Seddighi, Shahram Abbaszadeh, Amir Nikouei, Shoeib Naimian, MD. A Clinical Trial on Efficacy of Intravenous Erythropoietin on Improvement of Cerebral Auto-regulation and Outcome in Traumatic Brain Injury Patients. Archives of Physical

Medicine and Rehabilitation 2016;97(10):e52.

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- ٢. SEDDIGHI AMIR SAIED, SEDDIGHI AFSOUN. UNRUPTURED VERTEBRAL ARTERY DISSECTING ANEURYSMS. IRANIAN JOURNAL OF NEUROSURGERY 2016 , Volume 2 , Number SUP3.headache
- ٣. GHOLAMPOUR, Seifollah et al. Numerical Simulation of the Cervical Spine in a Normal Subject and a Patient with Intervertebral Cage under Various Loadings and in Various Positions. International Clinical Neuroscience Journal, [S.l.], v. 3, n. 2, p. 92-98, sep. 2016. ISSN 2383-2096. Available at: <<http://journals.sbm.ac.ir/Neuroscience/article/view/13170>>. doi:<https://doi.org/10.22037/icnj.v3i2.13170>.
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- ٦. Seddighi AS, Seddighi A, Nikouei A. Deep brain nucleus targeting in Parkinson's disease and essential tremor by image guided surgery using neuronavigation system with tractography and volume of tissue of activated assessment.

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- ٥٧. Seddighi A, Akbari ME, Seddighi AS, Nikouei A.
Psychological consideration in patients with cerebral gliomas
candidates for intra-operative radiation therapy based on tumor
location. Hellenic Journal of Nuclear Medicine. 2017 Sep-
Dec;20 Suppl:20-24.
- ٥٨. Seddighi A S, Seddighi A, Amir N, Nima M K. Multi-
Segmental Intramedullary Epidermoid Cyst Causing Low Back
Pain and Urologic Dysfunction, Int J Cancer Manag. 2017 ;
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- ٥٩. Seifollah Gholampour, Nasser Fatouraei, Amir Saeed
Seddighi, Afsoun Seddighi. Evaluating the effect of
hydrocephalus cause on the manner of changes in the effective
parameters and clinical symptoms of the disease. Journal of
Clinical Neuroscience Volume 35, January 2017, Pages 50-55.
- ٦٠. Seddighi A, Behrouzian S, Nikouei A, Seddighi AS.
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patient with carotid body tumor: a case report. Int Clin
Neurosci J. 2017 Autumn;4(4):157-159. doi:
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of Nesdonal and propofol in patients under electroconvulsive
therapy. Int Clin Neurosci J. 2017;4(4):140-142. doi:
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Saeid, Zali Alireza, Tabatabaei Seyed Mahmood, Yourdkhani Fatemeh, Naimian Shoeib, Razavian Iman. The role of tranexamic acid in prevention of hemorrhage in major spinal surgeries. asianjns.org Asian J Neurosurg. 2017 Jul-Sep; 12(3): 501–505.doi: 10.4103/1793-5482.165791.

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٧٠. Seddighi A, Seddighi AS, Jamshidi S, Rahimi Baghdashti H. Pregnancy in patients with low back pain. *Pregnancy in Patients With Low Back Pain. Int Clin Neurosci J*. 2019;6(3):79-82. doi:10.15171/icnj.2019.
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