



Prof. Mohammad Jamous, M.D., Ph.D.
Professor of Neurosurgery
Chairman of Neurosurgery Department, Faculty of Medicine,
Jordan University of Science and Technology

Current Title: Professor of Clinical Neurosurgery
Consultant Neurosurgeon

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Birthdate and Birthplace: Nov. 9, 1971, Amman, Jordan

Citizenship: Jordanian

Education:

1995 Doctor in Medicine

Jordan University of Science and Technology
Irbid-Jordan

1996 Internship Training

Luzmila Hospital
Amman-Jordan

2000 Basic Surgical Training

Jordan University of Science and Technology
School of Medicine
Irbid-Jordan

2005 Advanced Neurosurgical Training

The University of Tokushima
School of Medicine
Tokushima-Japan

2002 Pediatric Neurosurgery Fellowship

Children Hospital of Michigan, Wayne State University

Detroit, MI

Specialty Board & Certificates:

Jordanian Board in Neurological surgery, Jordan Medical Council (Amman-Jordan) Feb 2006
Japanese Board in Neurological Surgery (Tokyo-Japan) August 2003
Pediatric Neurosurgery Fellowship Certificate, July 2002, Wayne State University, MI-USA
Basic Surgical Training Certificate, Sept 1998, , Amman-Jordan

Licensure:

Jordan Medical License (No. 10138), June 1996, Ministry of Health, Amman –Jordan
Japan Medical Practice License (No. 110415), March 2000, Ministry of Health, Tokyo-Japan
United State Medical License (No. 05399696), Dec 2000, ECFMG, USA (valid indefinitely)
Michigan Medical Licensure (No. 4301078553), June 2001, State of Michigan, MI-USA (valid indefinitely)

Work interest:

Vascular, Spine, Trauma, and Pediatric Neurosurgery

Present Appointment:

Consultant Neurosurgeon
Professor in Neurosurgery, Faculty of Medicine
Department of Neurosurgery, King Abdullah University Hospital
Jordan University of Science and Technology
Irbid-Jordan

Academic Appointments:

Prof. Neurosurgery (Nov. 2020- present)
Department of Neurosurgery, Faculty of Medicine,
Jordan University of Science and Technology
School of Medicine
Irbid-Jordan
Associate Prof. Neurosurgery (Feb,2011, Nov. 2020)
Department of Neurosurgery, Faculty of Medicine,
Jordan University of Science and Technology
School of Medicine
Irbid-Jordan
Assistant Prof. Neurosurgery (April, 2006-Feb,2011)
Lecturer: (April,2005- April,2006)

Clinical Appointments:

Chairman of Neurosurgery Department (Sept,2017-Sept,2019)
King Abdulla University Hospital,
School of Medicine, Jordan University of Science and Technology
Irbid-Jordan
Consultant Neurosurgeon (Feb. 2011-Present)
King Abdulla University Hospital

Irbid-Jordan
Neurosurgery Specialist (April, 2005-Feb,2011)

Neurosurgery Board Examiner:

Member of Jordan Neurological Surgery Board Exam Committee (Jordan Medical Council) 2017-present.

Member of Arab Neurological Surgery Board Exam. Committee 2017-2018

Scientific Organization Memberships:

- Vice President of Spine Arthroplasty Society (SAS) Middle East Chapter
- Executive committee/ Jordan Spine Society
- AO SPINE active member
- American Society of Neurological Surgery
- Japanese Society of Neurological Surgery
- Congress of Neurological Surgeons
- American Medical Association
- Jordan Medical Association
- Jordan Neurosurgical Association

Awards & Grants:

-13th World Federation of Neurosurgical Societies (WFNS) Award, June 2005

-The Domoncai Award (Award of the neurosurgical department at The University of Tokushima), May 2005

-The Kourakukai Award (Award of the Graduate School of Medicine at The University of Tokushima), Jan. 2005

-Open Grant for research on pathogenesis of cerebral aneurysm from the Japanese Ministry of Education, Culture, Sport, Science and Technology, C2 (No. 15591528), April 2001-April 2005

Selected Publications:

- 1- Jbara O, **Jamous MA**. Risk of meningitis after posterior fossa decompression with duraplasty using different graft types in patients with Chiari malformation type I and syringomyelia: a systematic review and meta-analysis. October 2022Neurosurgical Review DOI: 10.1007/s10143-022-01873-6
- 2- **Jamous MA**. Management and Outcome of a Neurologically Intact Infant with Pierre Robin Sequence and Dandy-Walker Variant Diagnosed with Large Hemispheric Brain Abscess – Case Report. Georg Thieme Verlag KG. December 2021Arquivos Brasileiros de Neurocirurgia Brazilian Neurosurgery 40(04):e394-e398.DOI: 10.1055/s-0041-1739279
- 3- **Jamous MA**. Management of traumatic posterior fossa epidural hematomas in pediatrics: our experience and review of the literature. September 2021Child's Nervous System 37(3)
- 4- **Jamous MA**. Secondary spinal cord changes and spinal deformity following traumatic spinal cord injury. July 2021The Aging Male 24(1):2021

- 5- **Jamous MA**, Jbarah O, Al Omari A. Rare manifestation of Bromadiolone toxicity as intracranial hemorrhage. April 2021. Brain Hemorrhages 2(4)
- 6- **Jamous M**. Multiple neural tube defects: A case report. American Journal of Case Reports 2020
- 7- Hadoush H, Lababneh T, Banihani S, **Jamous MA**. Melatonin and dopamine serum level associations with the motor, cognitive, and sleep dysfunctions in patients with Parkinson's disease: A cross-sectional research study. June 2020Neurorehabilitation 46(1):1-11.
- 8- **Jamous M**. The Safety of Early Thromboembolic Prophylaxis in Closed Traumatic Intracranial Hemorrhage. Open Access Emergency Medicine. 2020 (12), 81-85
- 9- **Jamous MA**.Outcome of Craniocerebral Penetrating Injuries: Experience from the Syrian War.J Neurol Surg A Cent Eur Neurosurg. 2019 Sep;80(5):345-352
- 10- Jamous MA. The outcome of observation of acute traumatic extradural hemorrhage in pediatric age group. . Eur J Trauma Emerg Surg 2019. Nov 20
- 11- Haytham Eloqayli, Yousef Khader, Mohammad Jamous, Feras Alqarqaz, Basil Nasrallah, Mazen Abuchaaban Spectrum and Outcome of Moderate Pediatric Head Injury Patients Admitted to Main Tertiary Hospital in Northern Jordan Border Hosting City During Strain Period of Syrian Crises.Open Neurology Journal, 2018, 12: 69-76
- 12- A Al-Zoubi, E Jafar, **M Jamous**, F Al-Twal, S Al-Bakheet, M Zalloum: Transplantation of purified autologous leukapheresis-derived CD34+ and CD133+ stem cells for patients with chronic spinal cord injuries: Long-term evaluation of safety and efficacy. Cell transplantation 23 (Supplement 1), S25-S34
- 13- Khabour OF, Abu-Rumeh L, Al-Jarrah **M, Jamous M**, Alhashimi F: Association of adiponectin protein and ADIPOQ gene variants with lumbar disc degeneration. Exp Ther Med. 2014 Oct;8(4):1340-1344.
- 14- **M. Jamous**, M. Barbarawi, H. Oqaili: Cerebral aneurysm. Contraversial issues in neurosurgery, chapter 9, 189-216
- 15- Al-Jarrah MD, **Jamous M**: Effect of endurance exercise training on the expression of GFAP, S100B, and NSE in the striatum of chronic/progressive mouse model of Parkinson's disease. NeuroRehabilitation. 2011;28(4):359-63.
- 16- **Jamous M**, Barbarawi M, Samrah S, Khabaz MN, Al-Jarrah M, Dauod S: Emergency Decompressive Craniectomy for Trauma patients with Glasgow Coma Scale of 3 and Bilateral Fixed and Dilated Pupils. European Journal of Trauma and Emergency Surgery. 2010, vol. 36,pp. 465-469
- 17- Al Jarrah M, **Jamous M**, Al Zaily K, Bweir S: Endurance exercise training promotes angiogenesis in the brain of chronic/progressive mouse model of Parkinson's disease. NeuroRehabilitation. 2010 Jan 1;26(4):369-73
- 18- **Jamous M**, Al-Zoubi A, Khabaz MN, Khaledi R, Al Khateeb M, Al-Zoubi Z: Purification of mouse bone marrow-derived stem cell promotes ex-vivo neuronal differentiation. Cell Transplant. 2010;19(2):193-202
- 19- M. Abu-Abeeleh (*), I. Matalka : Z. A. Bani Ismail, K. R. Alzaben, S. A. Abu-Halaweh , A. S. Aloweidi :I. A. Al-Ammouri, M. K. Al-Essa, S. K. Jabaiti, M. M. Alsmady, O. Alshobaki, M. Alqudah, S. Albashir , R. Ennab, **M. Jamous**, A. Al-Majali, J. Abu-Abeeleh: Efficacy of human adipose tissue-derived stem cells in cardiac muscle repair in an experimental acute myocardial infarction model using nude rats (Crl:NIH-Fox1RNU). Comparative Clinical Pathology10.1007/s00580-009-0927-3
- 20- Aljarrah M, Nazzal M, Jamous MA. Association between functional independence measures and Glasgow coma scale regarding rehabilitation outcomes in traumatic brain injury. Neuroscience 14(1): 41-4.
- 21- Azab M, Al-Jarrah M, Nazzal M, Maayah M, Abu Sammour M, **Jamous M**: Effectiveness of Constraint-Induced Movement Therapy (CIMT) as Home-Based Therapy on Barthel Index in Patients with Chronic Stroke. Top Stroke Rehabil. 2009 May-Jun;16(3):207-11

- 22- **Jamous M**, Abdel Aziz H, Al Kaisy F, Eloqayli H, Azab M, Al-Jarrah M: Conservative Management of Acute Epidural Hematoma in Pediatric Age Group. *Pediatr Neurosurg*. 2009 May 14;45(3):181-184.
- 23- Barbarawi M, Smith S, **Jamous MA**. Therapeutic approaches to cerebral vasospasm complicating ruptured aneurysm. April 2009. *Neurology International* 1(1):e13. DOI: 10.4081/ni.2009.e13
- 24- Tamura T, **Jamous MA**, Kitazato KT, Yagi K, Tada Y, Uno M, Nagahiro S: Endothelial damage due to impaired nitric oxide bioavailability triggers cerebral aneurysm formation in female rats. *J Hypertens*. 2009 Apr 1
- 25- Muhammed D. AlJarrah, Mahmoud E. Nazzal, **Mohammed A. Jamous**, Mohammed A. Azab, Mikhled F. Maayah: Association between the functional independence measure and Glasgow coma scale regarding the rehabilitation outcomes of traumatic brain injury” *Neurosciences* 2009; Vol. 14 (1): 41-44
- 26- **Jamous MA**, Al-Hayek K, Hani AA: Oculomotor neuropathy following tetanus toxoid injection. *Neurol India*. 2008 Apr-Jun;56(2):214-6
- 27- **Jamous MA**, Abdel-Aziz H, Kaisy F.: Collateral blood flow patterns in patients with unilateral ICA agenesis and cerebral aneurysm. *Neuro Endocrinol Lett*. 2007 Oct;28(5):647-51
- 28- **Jamous MA**, Nagahiro S, Kitazato KT, Tamura T, Abdel Aziz H, Shono M, Satoh K: Endothelial injury and inflammatory response induced by hemodynamic changes preceding intracranial aneurysm formation: experimental study in rats. *J Neurosurg*. 2007 Aug;107(2):405-411
- 29- **Jamous MA**, Nagahiro S, Kitazato KT, Tamura T, Kuwayama K, Satoh K: Role of estrogen deficiency in the formation and progression of cerebral aneurysms. Part II: experimental study of the effects of hormone replacement therapy in rats. *J Neurosurg*. 2005 Dec;103(6):1052-7.
- 30- **Jamous MA**, Nagahiro S, Kitazato KT, Satomi J, Satoh K: Role of estrogen deficiency in the formation and progression of cerebral aneurysms. Part I: experimental study of the effect of oophorectomy in rats. *J Neurosurg*. 2005 Dec;103(6):1046-51.
- 31- **Jamous MA**, Nagahiro S, Kitazato KT, Satoh K, Satomi J: Vascular corrosion casts mirroring early morphological changes that lead to the formation of saccular cerebral aneurysm: an experimental study in rats. *J Neurosurg*. 2005 Mar;102(3):532-5.
- 32- **Jamous MA**: Neurosurgery in the Arab World: Current state and future prospects. *Jpn J Neurosurg*. 2005 Feb;14(2):63-68
- 33- **Jamous MA**, Satoh K, Satomi J, Matsubara S, Nakajima N, Uno M, Nagahiro S: Detection of enlarged cortical vein by magnetic resonance imaging contributes to early diagnosis and better outcome for patients with anterior cranial fossa dural arteriovenous fistula. *Neurol Med Chir (Tokyo)*. 2004 Oct;44(10):516-20; discussion 520-1.
- 34- **Jamous MA**. Neurosurgery in the Arabic World (B3 Current neurosurgery in Asia, Middle East and Africa). April 2004. *Japanese Journal of Neurosurgery* 13(4):292
- 35- Sood S, Kumar CR, **Jamous MA**, Schuhmann MU, Ham SD, Canady AI: Pathophysiological changes in cerebrovascular distensibility in patients undergoing chronic shunt therapy. *J Neurosurg*. 2004 May;100(5 Suppl Pediatrics):447-53.
- 36- **Jamous MA**, Satoh K, Matsubara S, Satomi J, Nakajima N, Uno M, Nagahiro S: Ischemic basilar artery dissecting aneurysm treated by stenting only--case report. *Neurol Med Chir (Tokyo)*. 2004 Feb;44(2):77-81.
- 37- **Jamous MA**, Sood S, Kumar R, Ham S: Frontal and occipital horn width ratio for the evaluation of small and asymmetrical ventricles. *Pediatr Neurosurg*. 2003 Jul;39(1):17-21.
- 38- **Jamous MA**, Satoh K, Kageji T, Satomi J, Matsubara S, Nagahiro S, Hayashi M, Nakagawa S: Anterior ischemic optic neuropathy after combined ophthalmic artery embolization and craniofacial surgery--case report. *Neurol Med Chir (Tokyo)*. 2001 Aug;41(8):419-22.

Selected Presentations:

- Jamous Mohammad: Heterotopic ossification following cervical disc replacement. Oral Presentation at ISASME chapter second meeting, 3-5 Feb, 2011. Dead Sea, Jordan
- Alzoubi Ziad, **Jamous Mohammad**, Alzoubi Adeeb: Autotransplantation of purified stem cells in patients with complete spinal cord injury. Oral presentation at the 2nd International Association of Neurorestoratology, 24-28 April, 2009. Beijin, China
- M. Al Jarrah, **M. Jamous**: Endurance exercise training promotes angiogenesis in the brain of chronic progressive mouse model of Parkinson's disease. Poster presentation at the 9th international conference of AD/PD, 11-15 march, 2009, Prague, Czech Republic
- **Jamous M**, Al-Zouabi Z: Autotransplantation of adult stem cell in patients with spinal cord injury. Oral presentation at the 6th Pan Arab Spine Congress & 1st Congress of Yemini Neurological Surgeons 11 - 13 October, 2008 (Sanna, Yemen).
- **Jamous M**: Cervical Laminoplasty . Oral presentation at the 4th Pan Arab Spine Congress, Aleppo, Syria (Oct-2006).
- T. Tamura, **M. Jamous**, K. T. Kitazato, K. Satoh, J Satomi, M Uno, S Nagahiro: Synergic effect of hypertension and estrogen deficiency contribute to endothelial dysfunction increase the risk for cerebral aneurysm formation in rats. Oral presentation at the 15th European Stroke Conference, Brussel (May-2006)
- **Jamous M**: Estrogen deficiency promotes the formation and progression of cerebral aneurysms. Oral presentation at the 13th World Federation of Neurosurgical Societies, Marrakesh, Morocco (June-2005)
- **Mohammad A. Jamous**, Shinji Nagahiro, Keiko T. Kitazato, Koichi Satoh, Junichiro Satomi: Vascular corrosion cast mirrors early changes that lead to the formation of saccular cerebral aneurysm: experimental study in rat. Poster presentation at The 62nd meeting of Japanese Neurosurgical society, Nagoya, Japan (Oct.-2004)
- **Mohammad A. Jamous**: Neurosurgery in the Arab World: Current state and future prospects. Oral presentation at The 24th Japanese Neurosurgical Congress, Tokushima, Japan. (May-2004).
- **Mohammad A. Jamous**, Koichi Satoh, Hideo Mure, Masaaki Obayashi: Collateral blood flow patterns in patients with unilateral ICA agenesis and cerebral aneurysm: Report of two cases and review of the literature. Poster Presentation at The 29th Japan Stroke Conference, Nagoya, Japan. (March-2004)
- **Jamous M**, Sood S: Effects of shunt treatment on the GnRH system in congenital hydrocephalus. Poster presentation at The 70th annual meeting of the American Neurosurgical Association, April, 2002- Chicago, USA.
- **Mohammad A. Jamous**, Satoh K, Satomi J, Matsubara S, Uno M, Shinji Nagahiro: Twelve patients with anterior cranial fossa dural arteriovenous fistulae – Recent management and follow up. Poster presentation at The 59th Japanese Neurosurgical meeting. Kobe, Japan. (Oct. 2001)
- **Jamous M**, Nagahiro S: Operative management of cavernous angioma. Oral presentation at The 3rd Asian Congress of Neurological surgery. Nagoya-Japan. (Nov. 2000)

Selected Courses & Meetings:

- World Federation of Neurosurgical societies (Middle East Workshop), Jan 7-9, 2009 Amman-Jordan
- International Group for Advancement in Spinal Science (IGASS Forum) (Dead Sea, Jordan, Oct 25th, 2008)

- 1st Spinal Progress & Innovation for the Near East (S.P.I.N.E) meeting (Beirut, August 15-18, 2008)
- Kyphoplasty Course, Leiden, Notherland 26th April, 2007
- 7th Dubai Spine Conference, Dubai, Emirates, 29th March, 2007
- The Technology of Testing and Evaluation of University Examination Course. Jordan University of Science and Technology. Irbid, Jordan (Nov., 2005)
- The Pan Arab Neurosurgical Society Spine Course and Hands on Workshop. Amman, Jordan (August, 2005)
- Objective Structure Clinical Examination (OSCE) Course and Workshop. Irbid, Jordan (June, 2005)
- The 12th Annual Meeting of the Japanese Society for Skull Base Surgery combined with The 3rd International Congress on the Cerebral Venous System and The 3rd International Congress on Meningiomas. Matsumoto, Japan (May-June, 2000)