

Amgad S.Hanna

Amgad S. Hanna, MD, is Assistant Professor of Neurosurgery in the Department of Neurological Surgery, University of [Wisconsin, Madison](#), WI, and a neurosurgeon at University of Wisconsin Hospital and Clinics, Meriter Hospital, William S. Middleton Memorial Veterans Hospital, and St. Mary's Hospital Medical Center, all in Madison.

Medical School: Cairo University, Egypt, 1990

Internship: Jefferson Health System, Frankford Hospital, Philadelphia, PA and University of Rennes I, France.

Residency: Thomas Jefferson University Hospital, Philadelphia, PA

Training

Fellowship: Spine and Peripheral Nerve, [Mayo Clinic, Rochester](#), MN

Spine Surgery, Washington University, St. Louis, MO

He is certified by the [American Board of Neurological Surgeons](#).

Dr. Hanna has received several awards, including a Neurosurgery clerkship teaching award 2013, Resident Teaching Award 2011 (University of Wisconsin), and the Cahill Award 2008 (CNS/AANS joint section on Spine and Peripheral Nerve).

His national teaching responsibilities have included a series of national Peripheral Nerve Oral Board Webinars and instruction on controversies in peripheral nerve trauma and peripheral nerve tumors at The Winter Clinics for Cranial and Spinal Surgery.

Dr. Hanna has published almost 30 articles in peer-reviewed journals/book chapters. He has been a reviewer for Neurosurgery since 2010

Specialization

He specializes in the diagnosis and treatment of disorders of the spine and peripheral nerves. He is experienced in complex spine surgery, treatment of intradural tumors and minimally invasive spine surgery as well as kyphoplasty. Dr. Hanna has extensive training in peripheral nerve surgery including fascicular nerve biopsies, nerve entrapments, tumors and selective denervation to treat dystonia. He also has expertise in the treatment of brachial plexus injuries and neurofibromatosis.

Publications as First author

1: Hanna AS, Dempsey R. A better understanding of myelination using nano-indentation. Neurosurgery. 2011 Dec;69(6):N10. doi: 10.1227/NEU.0b013e3181ae7db9. PubMed PMID: 22067340.

2: Hanna AS, Son YJ, Dempsey R. Live imaging of dorsal root regeneration and the resurgence of a

forgotten idea. *Neurosurgery*. 2011 Aug;69(2):N18-21. doi: 10.1227/01.neu.0000400019.16401.c3. Review. PubMed PMID: 21792130.

3: Hanna AS, Côté MP, Houlié J, Dempsey R. Nerve grafting for spinal cord injury in cats: are we close to translational research? *Neurosurgery*. 2011 Apr;68(4):N14-5. doi: 10.1227/01.neu.0000395789.12519.fc. Review. PubMed PMID: 21792096.

4: Hanna AS, Grindle CR, Patel AA, Rosen MR, Evans JJ. Inadvertent insertion of nasogastric tube into the brain stem and spinal cord after endoscopic skull base surgery. *Am J Otolaryngol*. 2012 Jan-Feb;33(1):178-80. doi: 10.1016/j.amjoto.2011.04.001. Epub 2011 Jun 28. PubMed PMID: 21715048.

5: Hanna AS, Dempsey R. Nanofibrous channels: a potential alternative to nerve grafting. *Neurosurgery*. 2010 Oct;67(4):N14-5. doi: 10.1227/01.neu.0000389731.26611.23. PubMed PMID: 20881539.

6: Hanna AS, Morandi X. Anterior sacral meningocele in pregnancy. Case report. *J Neurosurg*. 2001 Jan;94(1 Suppl):162-4. PubMed PMID: 11147856.

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4: Hanna AS, Côté MP, Houlié J, Dempsey R. Nerve grafting for spinal cord injury in cats: are we close to translational research? *Neurosurgery*. 2011 Apr;68(4):N14-5. doi: 10.1227/01.neu.0000395789.12519.fc. Review. PubMed PMID: 21792096.

5: Hanna A, Dempsey R. Nerve conduits used for end-to-side grafting after nerve injury. *Neurosurgery*. 2013 Feb;72(2):N15-6. doi: 10.1227/01.neu.0000426212.67089.72. PubMed PMID: 23328656.

6: Côté MP, Hanna A, Lemay MA, Ollivier-Lanvin K, Santi L, Miller K, Monaghan R, Houlié JD. Peripheral nerve grafts after cervical spinal cord injury in adult cats. *Exp Neurol*. 2010 Sep;225(1):173-82. doi: 10.1016/j.expneurol.2010.06.011. Epub 2010 Jun 23. PubMed PMID: 20599980; PubMed Central PMCID: PMC2922456.

7: Nickele C, Hanna A, Baskaya MK. Osteotomy for laminoplasty without soft tissue penetration, performed using a harmonic bone scalpel: instrumentation and technique. *J Neurol Surg A Cent Eur Neurosurg*. 2013 May;74(3):183-6. doi: 10.1055/s-0032-1328958. Epub 2013 Mar 15. PubMed PMID: 23504672.

8: Thompson CD, Zurko JC, Hanna BF, Hellenbrand DJ, Hanna A. The therapeutic role of interleukin-10 after spinal cord injury. *J Neurotrauma*. 2013 Aug 1;30(15):1311-24. doi: 10.1089/neu.2012.2651.

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10: Hellenbrand DJ, Kaeppler KE, Hwang E, Ehlers ME, Toigo RD, Giesler JD, Vassar-Olsen ER, Hanna A. Basic techniques for long distance axon tracing in the spinal cord. *Microsc Res Tech*. 2013 Dec;76(12):1240-9. doi: 10.1002/jemt.22291. Epub 2013 Sep 10. PubMed PMID: 24022846.

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12: Hanna A, Edan C, Heresbach N, Ben Hassel M, Guegan Y. [Expanding mature pineal teratoma syndrome. Case report]. *Neurochirurgie*. 2000 Dec;46(6):568-572. French. PubMed PMID: 11148410.

13: Kreiner DS, Hwang SW, Easa JE, Resnick DK, Baisden JL, Bess S, Cho CH, DePalma MJ, Dougherty P 2nd, Fernand R, Ghiselli G, Hanna AS, Lamer T, Lisi AJ, Mazanec DJ, Meagher RJ, Nucci RC, Patel RD, Sembrano JN, Sharma AK, Summers JT, Taleghani CK, Tontz WL Jr, Toton JF; North American Spine Society. An evidence-based clinical guideline for the diagnosis and treatment of lumbar disc herniation with radiculopathy. *Spine J*. 2014 Jan;14(1):180-91. doi: 10.1016/j.spinee.2013.08.003. Epub 2013 Nov 14. Review. PubMed PMID: 24239490.

14: Hanna A, Remington R. The representation of color and form in long-term memory. *Mem Cognit*. 1996 May;24(3):322-30. PubMed PMID: 8718766.

15: Hébert-Blouin MN, Amrami KK, Myers RP, Hanna AS, Spinner RJ. Adenocarcinoma of the prostate involving the lumbosacral plexus: MRI evidence to support direct perineural spread. *Acta Neurochir (Wien)*. 2010 Sep;152(9):1567-76. doi: 10.1007/s00701-010-0682-x. Epub 2010 May 15. PubMed PMID: 20473531.

16: Mohamed AH, Hanna AS. Inheritance of Quantitative Characters in Rice. I. Estimation of the Number of Effective Factor Pairs Controlling Plant Height. *Genetics*. 1964 Jan;49(1):81-93. PubMed PMID: 17248195; PubMed Central PMCID: PMC1210559.

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