

Lorenzo F. Muñoz, MD

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DOB: June 1, 1965 @ San Juan, Puerto Rico/USA

Medical Illinois: 036097984
Licenses: Indiana: 01053616 A (not active)
DEA: BM 5999113

Boards: National Board of Medical Examiners
July 1993
415363

American Board of Neurological Surgery
May 16, 2003
23052

Education: Undergraduate: Marquette University
Milwaukee, WI
Bachelor of Science
Sept. 1983-Aug. 1987

Medical School: Ponce School of Medicine
Ponce, Puerto Rico/USA
Jun. 1988-May 1992
Academic Honors

Internship: University of Illinois at Chicago
General Surgery
Jul 1992-Jun 1993

Residency: University of Illinois at Chicago
Neurological Surgery
Jul 1993-Jun 1998

Fellowships: University of Illinois at Chicago
Neurosurgical Critical Care
Jul 1997-Jun 1998

Children's Memorial Hospital
Pediatric Neurosurgery
Chicago, IL
Jul 1998-Jun 1999

Faculty Positions:

Rush University Medical Center
Assistant Professor of Neurosurgery

Associate Residency Director

Surgical Director, NeuroICU

Member, Rush Brain Tumor Center

Member, Division of Cerebrovascular Surgery

Member, Division of Skull Base Surgery

Member, Craniofacial Center

Hospital Affiliations:

Rush University Medical Center
Chicago, IL

Rush-Copley Medical Center
Aurora, IL

Children's Memorial Hospital
Chicago, IL

Professional Societies:

American Association of Neurological Surgeons
Congress of Neurological Surgeons
Illinois State Neurosurgical Society
Alpha Omega Alpha Honor Medical Society

Professional Sections:

Cerebrovascular Section
Section on Tumors
Section on Neurotrauma and Critical Care

Clinical Interests:

Brain and Spinal Cord Tumors
Skull Base Surgery
Cerebrovascular Surgery
Neurosurgical Critical Care
Pediatric Neurosurgery
Resident Training

Hospital Committees:

Medical Care Evaluation
Surgical Quality

**Publications, Chapters,
and Presentations:**

1. Winkler S, Muñoz L: How does mannitol work? Surgical neurology, March 1996.
2. Hoffman WE, Charbel FT, Muñoz L, Ausman J: Comparison of Brain Tissue Metabolic Changes during Ischemia at 35C and 18C. Surgical Neurology 1998. Jan; 49 (1): 85-88
3. Slavin K, Ausman J, Charbel F, Misra M, Muñoz L: Results of Treatment of Intraventricular Hemorrhage with Recombinant Tissue Plasminogen Activator in a Series of 10 Patients. Abstract presented at the Joint section on Cerebrovascular Surgery Feb 1-4, 1998 at Lake Buena Vista, FL and at the AANS annual meeting, April 25-30, 1998 in Philadelphia, PA.
4. Muñoz L, Charbel F: The Febrile Patient in the Neurosurgical ICU. Chapter in the AANS Topics in Neurosurgical Critical Care Manual. San Juan, PR. Jan 24-27, 1998.
5. Muñoz L, Charbel F: Venous Thromboembolism in the Neurosurgery ICU. Chapter in the AANS Topics in Neurosurgical Critical Care Manual. San Juan, PR. Jan 24-27, 1998
6. Panelist at AANS Annual Meeting breakfast seminar on Pediatric Head Injury. April 2001. Toronto, Canada.
7. Panelist at AANS Annual Meeting breakfast seminar on Pediatric Head Injury. April 2002. Chicago, IL.

8. Fathallah H, Mo R, Li-Juan Zhao, Kanti Bansal, Bin He, Muñoz L, Rosseau G, Glick R, Lichtor T. Mathematical Modeling of Noise and Discovery of Genetic Expression Classes in Gliomas. *Oncogene* (2002) 21, 7164-7174.
9. Sturaitis M, Muñoz L, Lopes D, Braverman B. Effect of Dexmedetomidine on Somatosensory Evoked Potentials in patients During Craniotomy. Abstract presented at CNS Annual Meeting at Denver, Colorado. Oct 18-23.
10. Tredway T, Muñoz L, Wellington R, Fessler R. Spinal Neurosurgery. Textbook of NeuroIntensive Care. Eds: Layton, Gabrieli, and Friedman. Chapter 9, pp. 235-268. WB Saunders/Elsevier, Jan 2004.
11. Musacchio MJ, VonRoenn KA, Muñoz LF, Byrne RW. Neurosurgical Critical Care skills training using a Human Patient Simulator. CNS 2006. Chicago, IL
12. Smith A, Temes R, Munoz L, Bakay RAE. Prospective Evaluation with Retrospective Analysis of Tissue Oxygenation Monitors and Cerebral Blood Flow Monitors in Predicting Vasopapism in Subarachnoid Hemorrhage Patients. (IRB approved)

Clinical Trials:

1. 2010-Present: CLEAR III - TPA for treatment of intraventricular hemorrhage
Johns Hopkins University/NIH/NINDS
2. 2010-Present: Adherus™ Pivotal Trial dural sealant for supratentorial craniotomy
HyperBranch Medical Technology, Inc
3. 2009-Present: NuSeal 100™ dural sealant for supratentorial craniotomy
HyperBranch Medical Technology, Inc
4. 2009-Present: MISTIE Trial - TPA for treatment of intraparenchymal hemorrhage
Johns Hopkins University/NIH/NINDS
5. 2009-Present: Methylation patterns of DNA in neoplasms of the brain
Departmental
6. 2005-2007: A prospective, multicenter, randomized, controlled study to compare the Spinal Sealant System as an adjunct to sutured dural repair with standard of care methods during spinal surgery
Confluent Surgical, Inc
7. 2004-2006: DuraSeal™ for CSF leak in cranial surgery, DRS 03-002
Confluent Surgical, Inc
8. 2004-2007: PRECISE Trial, IL-13 convection enhanced treatment of glioblastoma
NeoPharm, Inc