

**Curriculum Vitae
Glen Manzano, MD**

1. DATE: May 19, 2016

I. PERSONAL

2. Name: Glen R. Manzano, MD

3. Home Phone: Private

4. Office Phone: 305-689-2427

5. Office Address: 1321 NW 14th Street
West Building Suite 306
Miami, FL 33125

6. Current Academic Rank: Assistant Professor

6a. Current Track of Appointment: Clinical Educator Track

7. Primary Department: Neurosurgery

8. Secondary or Joint Appointments:

9. Citizenship: USA

10. Languages: English, Spanish

II. HIGHER EDUCATION

11. Institutional:

5/93 – 8/93, 5/94 – 8/94

Research Assistant

Focusing on Spine and Spinal Cord Surgery,
University of Miami Department of Neurosurgery,
Miami, Florida

8/91 – 5/95

Bachelor Science

University of Notre Dame, Notre Dame, Indiana

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|-------------------------------|--|
| 8/98 – 5/00 | Working towards MD
St George’s University School of Medicine,
Grenada, West Indies |
| 8/00 – 5/02 | MD
University of Miami School of Medicine, Miami
Florida |
| 7/02 – 6/03 | Surgical Internship
University of Miami Department of Surgery,
Miami, Florida |
| 7/05 – 6/06 | Resident Research Year
Focusing on Animal Spinal Cord Injury Model and
Stem Cell Transplantation, University of Miami
Department of Neurosurgery, Miami, Florida |
| 7/06 – 6/07 | Complex Spine Fellowship
University of Miami Department of Neurosurgery,
Miami, Florida |
| 7/03 – 6/09 | Neurosurgical Residency
University of Miami Department of Neurosurgery,
Miami, Florida |
| 12. Non-Institutional: | |
| 13. Certification, licensure: | |
| 2000 | USMLE Step 1 |
| 2002 | USMLE Step 2 |
| 2007 | USMLE Step 3 |
| 2007 | American Board of Neurological Surgeons Written
Examination |
| 2007 | Certificate of Subspecialty Training in Complex
Spine and Spinal Cord Surgery |
| 2009 | Florida State Medical License (Active) |
| 2010 | BLS, ACLS |

- 2011 Orthofix Spinal Implants Atlas Forum, Chicago, Illinois
- 2014 Board Certified by American Board of Neurological Surgery

III. EXPERIENCE

14. Academic:

- 2/12 – present **Assistant Professor**
Department of Neurosurgery
University of Miami Miller School of Medicine
Miami, Florida

15. Hospital Appointments:

- 2/12 – present University of Miami Hospital
- 2/12 – present Jackson Memorial Hospital
- 2/12 – present Miami VA Medical Center

16. Non-Academic:

- 7/95 – 7/98 **Coordinator of Papers and Publications**
University of Miami Department of Neurosurgery,
Miami, Florida
- 8/09 – 12/11 **Neurosurgeon**
Spine and Brain Neurosurgery Center, Orlando,
Florida
- 9/11 – 12/11 **Supervisor-Neurosurgical Physician Extenders,**
Orlando Regional Medical Center, Orlando, Florida

17. Military:

IV. PUBLICATIONS

18. Books and monographs published:

Book Chapters

1. Diaz RJ, Ivan ME, Hanft Simon, Vanni S, **Manzano G**, Jagid J, Komotar R. Laser Insterstitial Therapy: Lighting the way to a new treatment option in neurosurgery. In **Neurosurgery** 2015.
2. **Manzano GR**, Levi AD. Cervical Laminoplasty. In **Handbook of Spine Surgery**. (eds. Baaj, Mummaneni, et al.) Thieme, New York, 2015.
3. **Manzano GR**, Green BA. Chiari I Malformation. In **Clinical Decision Support System on Spine Surgery**. Online resource, 2014.
4. **Manzano G**, Wang MY. Arthrodesis: source and technique. In **Neurosurgery Tricks of the Trade** (eds. Levy, Berta) Thieme, New York, 2011.
5. Sheth RN, **Manzano G**, Levi AD: Post-traumatic syringomyelia. In **Cervical Spine Trauma** (eds. Vaccaro, Anderson) Lippincott Williams & Wilkins. Chapter 38, pp 551-558, 2009.
6. **Manzano G**, Sheth RN, Levi AD: The management of post-traumatic syringomyelia. In **Atlas of Spine Trauma: Adult and Pediatric**. (eds. Kim, Ludwig, Vaccaro) Elsevier. Chapter 62, pp 660-665, 2008.
7. **Manzano G**, Quintero-Wolfe S, Wang MY. Microdiscectomy for the treatment of herniated lumbar disc. In **Arthritis and Arthroplasty: The Spine**. (eds. Shen, Shaffrey) Elsevier. Chapter 14, pp 107-114, 2008.
8. Quintero-Wolfe S, Wang MY, **Manzano G**, Green BA. New advances in the surgical treatment of nontraumatic myelopathies. In **Spinal Cord Medicine 2nd Edition**. (eds. Lin, Bono) Demos Medical Publishing. Chapter 39, 2008.
9. Wang MY, **Manzano GR**, Falcone SF, Green BA. Posttraumatic

syringomyelia. In: **Neurosurgery, 3rd Edition.** SS Rengachary, RJ Maciunas, RH Wilkins, ed, Philadelphia, PA, 2002.

10. Lee TT, **Manzano GR**, Green BA. Emergency management of cervical spine injuries. In: **Sports Neurology.** BD Jordan, ed, Lippincott-Raven, Chapter 11, pp 137-149, 1998.

Book Reviews

1. **AOSpine Masters Series Volume 1 – Metastatic Spinal Tumors**
Editor Vialle, AOSpine, Feb, 2015 for AJNR
 2. **Minimally invasive spine surgery – techniques, evidence, and controversies.** By Hartl and Korge, Thieme, 2013 for AJNR
19. Juried or refereed journal articles or exhibitions:

Peer Reviewed Journal Publications

1. Hernandez-Duran S, Hanft S, Komotar RJ, **Manzano GR.** The role of stereotactic radiosurgery in the treatment of intramedullary spinal cord neoplasms: a systematic literature review. *Neurosurg Rev.* 2016 Apr;39(2):175-83.
2. Hernández-Durán S, Bregy A, Shah AH, Hanft S, Komotar RJ, **Manzano GR.** Primary spinal cord glioblastoma multiform treated with temozolamide. *J Clin Neurosci.* 2015 Dec;22(12):1877-82.
3. **Manzano GR,** Casella G, Wang MY, Vanni SV, Levi AD. A prospective randomized trial comparing expansile cervical laminoplasty versus cervical laminectomy and fusion for multilevel cervical myelopathy. *Neurosurgery.* 2012 Aug;71(2):E521-2.
4. **Manzano GR,** Casella G, Wang MY, Vanni SV, Levi AD. A prospective randomized trial comparing expansile cervical laminoplasty versus cervical laminectomy and fusion for multilevel cervical myelopathy. *Neurosurgery.* 2012 Feb;70(2):264-77.
5. Wolfe SQ, **Manzano G,** Langer DJ, Morcos JJ. Cavernous malformation of the oculomotor nerve mimicking a partially thrombosed posterior communicating artery aneurysm: report of two cases. *Neurosurgery.* 2011

Aug; 69(2): E470-4.

6. **Manzano G**, Green BA, Vanni S, Levi AD. Contemporary management of adult intramedullary spinal tumors - pathology and neurological outcomes related to surgical resection. *Spinal Cord*. 2008 Aug;46(8):540-6.
7. Benveniste RJ, **Manzano G**, Petit C. Multifocal glioblastoma multiforme with synchronous spontaneous hemorrhage: case report. *J Neurooncol* 2008 Aug; 89(1): 55-58.
8. Sheth RN, **Manzano G**, Li X, Levi AD. Transplantation of human bone marrow-derived stromal cells into the contused spinal cord of nude rats. *J Neurosurg Spine*. 2008 Feb;8(2):153-162.
9. Elhammady M, **Manzano GR**, Lebowhl N, Levi AD: Leiomyosarcoma metastases to the spine. Case series and review of the literature. *J of Neurosurgery – Spine* 178-183, 2007.
10. Kukreja K, **Manzano G**, Ragheb J, Medina LS. Differentiation between pediatric spinal arachnoid and epidermoid-dermoid cysts: is diffusion-weighted MRI useful? *Pediatr Radiol*. 2007 Jun;37(6):556-560.
11. Lee TT, Singh RV, **Manzano GR**, Green BA. Contemporary Management of Spinal Cord Injury. In: *Neurosurgery Quarterly*, DL Long, ed., Springer Verlag, Philadelphia, PA, Vol 9(2), pp. 138-153, 1999.
12. Lee TT, **Manzano GR**, Green BA. Modified open-door cervical expansile laminoplasty for spondylitic myelopathy: Technical notes, clinical and radiographic outcome and predictors for gait improvement. *J Neurosurg* 86(1):64-68, 1997.

20. Other works, publications and abstracts:
 1. **Manzano G**, Quintero-Wolfe S, Benglis D, Levi AD, Wang MY, Vanni S. Early outcomes and complications following minimally invasive lateral approaches to the lumbar spine. Congress of Neurosurgeons Annual Meeting, Orlando, FL, 2008.
 2. **Manzano G**, Green BA, Levi AD: Contemporary management of intramedullary tumors. Joint Section on Disorders of the Spine and Peripheral Nerves (AANS/CNS), 23rd Annual Meeting, Phoenix, AZ, 2007.
 3. **Manzano GR**, Elhammady M, Lebowhl N, Levi AD: Leiomyosarcoma

metastases to the spine. Case series and review of the literature. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, 2006

4. Razack N, **Manzano GR**, Levi ADO, Green BA: Management of bilateral cervical facet dislocation with anterior fusion using Morscher titanium plates. Congress of Neurological Surgeons Annual Meeting, New Orleans. 1997.
 5. Lee TT, **Manzano GR**, Green BA. Cervical expansile laminoplasty: Technical notes, clinical and radiographic outcomes. Proceedings, CNS, Montreal, Quebec, Canada, and AANS, Minneapolis, MN, 1996.
 6. Arias J, Klose KJ, Needham-Shropshire B, Patchen SJ, **Manzano G**, Green BA. A five-year analysis of delayed decompression procedures in spinal cord injury patients. Proceedings, 10th CNS, Disorders of the Spine and Peripheral Nerves, Joint Section. Fort Lauderdale, FL, 1994.
21. Other works *submitted* for publication:

V. PROFESSIONAL

22. Funded Research Performed:

23. Editorial responsibilities:

2013 – present **Associate Editor**
 BMC Cancer Surgical Oncology and Imaging Subsection

24. Professional and Honorary Organizations:

Professional Society Memberships:

2003 - present American Academy of Neurological Surgeons

2003 - present Congress of Neurological Surgeons

2012 - present North American Spine Society

2012 - present Joint Section Disorders of Spine and Peripheral Nerves

2012 - present Society for Minimally Invasive Spine Surgery

National and State Committee Memberships:

- 2012 - present **Fellowships Award Committee**
Congress of Neurological Surgeons
- 2014 – present **Treasurer**
Florida Neurosurgical Society
- 2014 – present **Board of Directors**
Florida Neurosurgical Society
25. Honors and Awards:
- 2003 **Outstanding Surgical Intern of the Year**
University of Miami Department of Surgery, Miami,
Florida
- 2009 **Hubert L. Rosomoff Research Award**
University of Miami Department of Neurosurgery, Miami,
FL

26. Post-Doctoral Fellowships:

27. Other Professional Activities:

Invited Speaker

1. *Anterior Approaches for the Treatment of Cervical Spondylotic Myelopathy*. Presented at Florida Neurosurgical Society Annual Meeting, Palm Beach, Florida, August 23, 2014.
2. *Contemporary Management of Adult Intramedullary Spinal Cord Tumors*. Presented at Neurocirugia Contemporanea, Clinic La Nueva, Bogota, Colombia, November 9, 2013.
3. *Minimally Invasive Approaches to the Spine*. Presented at Neurocirugia Contemporanea, Clinic La Nueva, Bogota, Colombia, November 9, 2013.
4. *Anterior/Extreme Lateral Approach Vs. Posterior / TLIF Approach for Lumbar Degenerative Disc Disease*. Presented at Florida Neurosurgical Society Annual Meeting, Palm Beach, Florida August 31, 2013.
5. *Minimally Invasive Approaches to the Spine*. Presented at Dominican Republic Neurology and Neurosurgery Congress Meeting, Santo Domingo, Dominican Republic, July 28, 2012.

6. Guest Lecture: *Surgical Indications for Lumbar Degenerative Disc Disease*. Presented at Dominican Republic Neurology and Neurosurgery Congress Meeting, Santo Domingo, Dominican Republic, July 28, 2012.
7. Breakfast Seminar: *Electrical Stimulation and Ultrasound for the Promotion of Fusion*. Presented at 80th Annual Meeting of the American Association of Neurological Surgeons, Miami, Florida, April 18, 2012.
8. *Indications for Lumbar Fusion and Risk Factors for and Management of Pseudarthrosis*. Presented at Florida State Assembly of the Association of Surgical Technologists, Orlando, Florida, August 6, 2011.

CME Accredited Lectures, Course Instruction and Workshops

1. *Advances in Spine Surgery*. West Palm Beach, Florida, January 22, 2015.
2. *Minimally Invasive Transforaminal Lumbar Interbody Fusion: Cadaveric Dissection Workshop*. Sponsored by Medtronic Sofamor Danek, Miami, Florida, April 7, 2012.
3. *Minimally Invasive Transforaminal Lumbar Interbody Fusion: Didactic and Practical Sawbones Workshop*. Sponsored by Orthofix Spine, Miami, Florida, March 21, 2012.

27a. Television Appearances

1. Telemundo (Channel 51) – Discussing lumbar fracture on Brazilian soccer player Neymar, July 7, 2014.

VI. TEACHING

28. Teaching Awards Received:
29. Teaching Specialization:
30. Thesis and Dissertation Advising/Post-doctoral student supervision:

VII. SERVICE

31. University Committee and Administrative Responsibilities:

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|----------------|--|
| 2016 - present | Voting Member
UMMG Leadership Council |
| 2015 - present | Co-Director
Jackson Memorial Hospital Acute Spinal Cord Injury Unit |
| 2014 – 2015 | Course Director
Neurosurgery Continuing Medical Education Series |
| 2014 – present | Director
University of Miami Spine Tumor Initiative |
| 2013 – present | Jackson Memorial Hospital Pediatrics Bioethics Committee |
| 2013 - 2014 | UMMG ICD-10 Education Workgroup |
| 2012 – present | Course Coordinator
1 st year neurosurgical module, University of Miami School of Medicine |
| 2012 – present | University of Miami Brain Tumor Initiative |

32. Community Activities:

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| 2015 – 2016 | Board of Directors , Cosmopolitan Residences, Miami Beach, FL |
| 2015 – present | Treasurer, Board of Directors , South of Fifth Neighborhood Association, Miami Beach, FL |