

Alan Thomas Villavicencio, M.D.

Date & Place
of Birth: 27 May, 1968
Hollywood, California

Business Address: Boulder Neurosurgical Associates
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PROFESSIONAL EXPERIENCE

2003-present Director of Neurosurgery, Longmont United Hospital

2002-present Co-Director of Neurosurgery, Boulder Community Hospital

2002-present Director of Minimally Invasive Spine Surgery Program
Boulder Neurosurgical Associates

2002-present Director of Research and Development
Boulder Neurosurgical Associates

2005-present Founder and Director, Trigeminal Neuralgia Program
Boulder Neurosurgical Associates

2006-present Director of Surgery
Minimally Invasive Spine Institute

EDUCATION

2001-2002 Fellowship, Orthopaedic Minimally Invasive and
Reconstructive Spine Surgery
Institute of Spinal Disorders at Cedars-Sinai and
The University of California at Los Angeles
Advisors: John J. Regan, MD & Patrick Johnson, MD

1996-2001 Residency, Neurological Surgery
Duke University Medical Center
Durham, North Carolina

1995-96 Internship, General Surgery
Duke University Medical Center
Durham, North Carolina

- 1991-95 Doctor of Medicine
Harvard Medical School
Boston, Massachusetts
- 1986-91 Bachelor of Arts
Biochemistry and Cell Biology
Minor: History
Minor: Psychology
University of California at San Diego
San Diego, California

ACADEMIC HONORS AND AWARDS

- 2006 Program Chairman
Advanced Symposium on Cranial and Spinal Surgery
Current Techniques in the Treatment of Cranial and Spinal Disorders
- 2006 1st Place Award for the Best Intracranial Research Topic
CyberKnife Radiosurgery for Idiopathic Trigeminal Neuralgia
International CyberKnife Users Meeting
LaCosta Resort, California
- 2005 Program Chairman
Advanced Symposium on Cranial and Spinal Surgery
Current Techniques in the Treatment of Cranial and Spinal Disorders
<http://www.bnasurg.com/symposium/index.html>
- 2005 Colorado Traumatic Brain Injury Foundation Research Grant – Clinical
Outcome Correlation with Serum, CSF, Brain Extracellular Magnesium
and other Biochemical Markers Concentrations Following
Traumatic Brain Injury
- 2005 Board Certification
American Association of Neurological Surgeons
- 2004 Distinguished Visiting Professor
The University of Missouri School of Medicine Division of Neurosurgery
Columbia, Missouri.
- 2004 Program Chairman
Advanced Spine Surgery Symposium
Current Techniques in the Treatment of Spinal Disorders
<http://www.bnasurg.com/symposium/index.html>
- 2002 Mayfield Award in Clinical Science (co-author)
Unraveling the Enigma of the Filum Terminale: Basic Science and
Clinical Evidence
American Association of Neurological Surgeons

- 1995 Cum Laude
Harvard Medical School
Thesis: Surgery Followed by Radiosurgery in the Treatment of Skull Base Meningiomas
- 1992-93 Research Training Grant, The Beth Israel Hospital and The National Institute of Health,
Harvard Medical School
- 1992-93 Research Training Grant, Mass. General Hospital and McLean Hospital,
Harvard Medical School
- 1991 Cum Laude
University of California at San Diego
- 1990 Earl Warren College Academic Multicultural Enrichment Scholarship,
University of California at San Diego
- 1989 Academic Scholar of the Year, UCSD Alumni Association,
University of California at San Diego
- 1988 Academic Excellence and Student Research Scholarship,
National Science Foundation
University of California at San Diego
- 1986-90 Provosts Honor List
University of California at San Diego

RESEARCH AND TEACHING EXPERIENCE

- 2004-present Principle Investigator, Colorado
Multi-center FDA IDE Clinical Trial Evaluating the MAVERICK™
Artificial [Lumbar] Disc
- 2003-present Primary Investigator
Multicenter Trial Evaluating Parallel versus Lordotic Bone Grafts For
Single and Multi-level Anterior Cervical Discectomy and Arthrodesis
- 1997-2000 Resident Director
Fresh Tissue Cadaveric Dissection Laboratory
Duke University Medical Center
Advisor: Allan H. Friedman, MD
- 1998-1999 Laboratory Research
Generation and Efficacy of Peripheral Blood-derived Dendritic Cells
Pulsed with Tumor-specific Protein Against Intracerebral Gliomas
Advisors: Darell D. Bigner, MD, PhD and John H. Sampson, M.D., Ph.D.

- 1994-1995 Clinical Research
Surgery and Radiosurgery for Skull Base Meningiomas
Brigham and Women's Hospital and Harvard Medical School
Advisors: Peter McL. Black, MD, PhD and Jay S. Loeffler, MD
- 1993-1994 Laboratory Research
Behavioral Anatomy of the Rat Nucleus Accumbens Septi. McLean
Hospital and Harvard Medical School
Advisor: Ross J Baldessarini, MD
- 1992-1994 Laboratory Research
Behavior and Spinal Cord Physiology of Pain
Beth Israel Hospital and Charles A. Dana Research Laboratories and
Harvard Medical School
Advisor: David D. Dubuisson, MD, PhD
- 1990 Undergraduate Laboratory Research
Self-Administration of Cocaine in Rats and Bilateral Accumbens
D2 Antagonist Injections
University of Ca. at San Diego and Scripps Research Institute
Advisor: George F. Koob, PhD
- 1989 Undergraduate Teaching Assistant (Biology)
University of Ca. at San Diego
Advisor: Paul Saltman, PhD
- 1988-90 Undergraduate Laboratory Research
Receptor Mechanisms of Sporulation in *S.cerevisiea*
University of Ca. at San Diego
Advisor: Ramon Pinon, PhD

OTHER EDUCATIONAL OR PROFESSIONAL EXPERIENCE AND TRAINING

- 1987-88 Helicopter Rescue Emergency Medical Technician and Forest
Ranger/Fire-fighter
Sequoia National Park, California (seasonal)
- 1987-91 Emergency Medical Technician, Cruz Rojo de Mexico [Red Cross]
Tijuana, Mexico
- 1/94-4/94 Clinical Clerkship, Medicine and Surgery in Rural Latin America
Columbia, South America

SCIENTIFIC PRESENTATIONS

1. **Villavicencio AT.** Neck and Back Pain in Multi-sport Athletes. Current Techniques in the Treatment of Cranial and Spinal Disorders – Westminster, Colorado. Nov 11, 2006.

2. **Villavicencio AT**, Burneikiene S, Lipani JD, Romanelli P, McNeely L, Fariselli L, McIntyre M, Pushchak EM, Broggi G, Adler JR, Thramann JJ. Survival Comparison of Newly Diagnosed and Recurrent Glioblastoma Multiforme Treated with CyberKnife Radiosurgery. CNS 2006 Annual Meeting, Chicago, IL, October 7 – 12, 2006
3. **Villavicencio AT**, Burneikiene S, Lim M, McNeely L, Romanelli P, Chang SD, McIntyre M, Laura Fariselli, Giovanni Broggi, Thramann JJ, Adler JR. CyberKnife Radiosurgery for Atypical Trigeminal Neuralgia Treatment. CNS 2006 Annual Meeting, Chicago, IL, October 7 – 12, 2006
4. **Villavicencio AT**, Lim M, Burneikiene S, McNeely L, Romanelli P, Chang SD, McIntyre M, Laura Fariselli, Giovanni Broggi, Adler JR, Thramann JJ. Recurrent Trigeminal Neuralgia in Patients Treated with CyberKnife Radiosurgery. CNS 2006 Annual Meeting, Chicago, IL, October 7 – 12, 2006
5. Lim M, **Villavicencio AT**, Burneikiene S, McNeely L, Romanelli P, Chang SD, McIntyre M, Fariselli L, Broggi G, Thramann JJ, Adler J. A Multicenter Experience of Idiopathic Trigeminal Neuralgia Patients Treated with CyberKnife Radiosurgery. CNS 2006 Annual Meeting, Chicago, IL, October 7 – 12, 2006
6. McLean JS, **Villavicencio AT**, Burneikiene S, Thramann JJ. Prospective Evaluation of Clinical Outcomes in Patients Undergoing Anterior Cervical Discectomy and Fusion with Plating. CNS 2006 Annual Meeting, Chicago, IL, October 7 – 12, 2006
7. Burneikiene S, **Villavicencio AT**, Bulsara KR, Thramann JJ. Radiation Dose Reduction Using Isocentric 3-D Fluoroscopic Navigation for Percutaneous Kyphoplasty. North American Spine Society 21st Annual Meeting, Seattle, Washington, September 26-30, 2006
8. **Villavicencio AT**, Burneikiene S, Roeca C, McLean J, Thramann JJ. Percutaneous versus Open Transforaminal Lumbar Interbody Fusion. Safety and Efficacy. North American Spine Society 21st Annual Meeting, Seattle, Washington, September 26-30, 2006
9. **Villavicencio AT**, Burneikiene S, Pushchak E, Thramann JJ. The Safety of Outpatient Anterior Cervical Discectomy and Fusion. AANS 74th Annual Meeting "Meeting the Challenges of Neurosurgery: Expanding Resources for a Growing Population", San Francisco, California. April 22-27, 2006
10. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Perioperative Complications in Transforaminal Lumbar Interbody Fusion versus Anterior - Posterior Reconstruction for Lumbar Disc Degeneration and Instability. AANS 74th Annual Meeting "Meeting the Challenges of Neurosurgery: Expanding Resources for a Growing Population", San Francisco, California. April 22-27, 2006
11. **Villavicencio AT**, Lim M, Burneikiene S, Chang SD, Romanelli P, McNeely L, Thramann JJ, Adler JR. CyberKnife Radiosurgery for Trigeminal Neuralgia Treatment. AANS 74th Annual Meeting "Meeting the Challenges of Neurosurgery: Expanding Resources for a Growing Population", San Francisco, California. April 22-27, 2006
12. **Villavicencio AT**, Burneikiene S, Pushchak E, Thramann JJ. Clinical Outcome in Patients Undergoing Anterior Cervical Discectomy and Fusion Using Anterior Plating System. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd

- Annual Meeting, Wyndham Palace Resort & Spa, Orlando, Florida. March 15-18, 2006
13. **Villavicencio AT**, Burneikiene S, Nelson EL, Bulsara KR, Thramann JJ. Intervertebral RhBMP-2 for Transforaminal Lumbar Interbody Fusion. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd Annual Meeting, Wyndham Palace Resort & Spa, Orlando, Florida. March 15-18, 2006
 14. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Three-dimensional Fluoro-based CT Guidance for Complex Spinal Surgery. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd Annual Meeting, Wyndham Palace Resort & Spa, Orlando, Florida. March 15-18, 2006
 15. Burneikiene S, **Villavicencio AT**, Bulsara KR, Thramann JJ. Potential for Radiation Dose Reduction by Performing Percutaneous Kyphoplasty under Intraoperative Fluoro-based CT Guidance. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd Annual Meeting, Wyndham Palace Resort & Spa, Orlando, Florida. March 15-18, 2006
 16. **Villavicencio AT**, Burneikiene S. Maverick Artificial Disc Removal Due to Metal Allergy. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd Annual Meeting, Wyndham Palace Resort & Spa, Orlando, Florida. March 15-18, 2006
 17. **Villavicencio AT**, Lim M, Burneikiene S, Chang SD, Romanelli P, McNeely L, McIntyre M, Thramann JJ, Adler JR. Evaluation of CyberKnife Radiosurgery for Idiopathic Trigeminal Neuralgia. Multicenter Clinical Study. 5th Annual CyberKnife Users' Meeting, Carlsbad, CA, Jan 25 - 28 2006.
 18. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Acute Intracranial Hemorrhage after CyberKnife Radiosurgery Treatment of Metastatic Melanoma. 5th Annual CyberKnife Users' Meeting, Carlsbad, CA, Jan 25 - 28 2006.
 19. **Villavicencio AT**, Burneikiene S, McNeely L, Pushchak EM, McIntyre M, Thramann JJ. Patterns of CyberKnife Treatment Failure for Primary and Recurrent Glioblastoma Multiforme. 5th Annual CyberKnife Users' Meeting, Carlsbad, CA, Jan 25 - 28 2006.
 20. **Villavicencio AT**. Total Disc Arthroplasty in the Spine – Techniques and Indications. Current Techniques in the Treatment of Cranial and Spinal Disorders – Broomfield, Colorado. Nov 11, 2006.
 21. **Villavicencio AT**. Contemporary Neurosurgical Management of Cranial and Spinal Trauma. Current Techniques in the Treatment of Cranial and Spinal Disorders – Broomfield, Colorado. Nov 11, 2006.
 22. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Intraoperative Three-dimensional Fluoro-based CT Guidance for Percutaneous Kyphoplasty. 55th Annual Meeting Congress of Neurological Surgeons, Boston, MA, October 8 – 13, 2005.
 23. Lim M, **Villavicencio AT**, Burneikiene S, Chang SD, Romanelli P, McNeely L, Thramann JJ, Adler JR. Multicenter Clinical Evaluation of CyberKnife Radiosurgery for Idiopathic Trigeminal Neuralgia. 55th Annual Meeting Congress of Neurological Surgeons, Boston, MA, October 8 – 13, 2005.
 24. **Villavicencio AT**, Burneikiene S, Finer R, Sherrier R, Bulsara KR, Thramann JJ. Restoration of Segmental Lordosis in Anterior Cervical Discectomy and Fusion Patients. 55th Annual Meeting Congress of Neurological Surgeons, Boston, MA, October 8 – 13, 2005.

25. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Posterior Pedicle Fixation versus Anterior-Posterior Reconstruction for Lumbar Disc Degeneration and Instability. 55th Annual Meeting Congress of Neurological Surgeons, Boston, MA, October 8 – 13, 2005.
26. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann JJ. Transforaminal Lumbar Interbody Fusion versus Anterior-Posterior Reconstruction for Lumbar Disc Degeneration and Instability. 20th Annual North American Spine Society Meeting, Philadelphia, Pennsylvania. September 27 – October 1, 2005.
27. **Villavicencio AT**, Burneikiene S, Nelson EL, Favors M, Bulsara KR, Thramann J. Safety and Efficacy of Transforaminal Lumbar Interbody Fusion (TLIF) Using Intervertebral rhBMP-2. World Spine III – Rio de Janeiro, Brazil. July 31- August 3, 2005
28. **Villavicencio AT**, Burneikiene S, Bulsara KR, Thramann J. Intraoperative Three-dimensional Fluoro-based CT Guidance. World Spine III – Rio de Janeiro, Brazil. July 31- August 3, 2005
29. **Villavicencio AT**, Burneikiene S, Thramann J. Transforaminal Lumbar Interbody Fusion versus Anterior Reconstruction for Lumbar Disc Degeneration and Instability. AANS/CNS Section for Spine and Peripheral Nerves – Phoenix, Arizona. March 9-12, 2005.
30. **Villavicencio AT**, Burneikiene S, Thramann J. Intraoperative Image Guidance for Complex Spinal Surgery. Rocky Mountain Neurosurgical Society 39th Annual Meeting – Squaw Valley, California. June 12-16th, 2004.
31. **Villavicencio AT**. Pediatric and Adult Spinal Deformity: Principles of Treatment and Operative Management. Current Techniques in the Management of Spinal Disorders Symposium – Boulder, Colorado. May 22, 2004.
32. **Villavicencio AT**, Johnson, JP. Reconstructive Surgery for Spinal Metastases. Current Techniques in the Management of Spinal Disorders Symposium – Boulder, Colorado. May 22, 2004.
33. **Villavicencio AT**. Endoscopic Transthoracic Discectomy and Sympathectomy. Current Techniques in the Management of Spinal Disorders Symposium – Boulder, Colorado. May 22, 2004.
34. **Villavicencio AT**, Burneikiene S, Thramann J. Isocentric 3-D Fluoroscopic Navigation for Spinal Surgery. The Winter Clinics, Cranial and Spinal Surgery (jointly sponsored by The Mayfield Clinic, The Cleveland Clinic and the Mayo Clinic Dept. of Neurological Surgery – Snowmass, Colorado. Feb. 25-March 2, 2004.
35. **Villavicencio AT**, Stokes J, Liu P, Anand N, Regan JJ. Endoscopic Lateral Transpoas Approach to the Lumbar Spine: Preliminary Results. AANS/CNS Section for Spine and Peripheral Nerves – Orlando, Florida. Feb. 27-March 2, 2002.
36. Bulsara KR, Cummings T, **Villavicencio AT**, George TM. Unraveling the Enigma of the Filum Terminale: Basic Science and Clinical Evidence. AANS/CNS Section for Spine and Peripheral Nerves – Orlando, Florida 2002.
37. **Villavicencio AT**, Stokes J, Liu P, Johnson JP. Reconstructive Thoracolumbar Vertebrectomy for Metastatic Spinal. AANS/CNS Section for Spine and Peripheral Nerves – Orlando, Florida. Feb. 27-March 2, 2002.
38. **Villavicencio AT**, Stokes J, Liu P, Pashman R. Induction and Maintenance of Lordosis in Multilevel ACDF Using Allograft. Annual Meeting of the American Association of Neurological Surgeons – Orlando, Florida. Feb. 27-March 2, 2002.
39. Bulsara KR, McGirt M, Liao L, **Villavicencio AT**, Borel C, Alexander M, Friedman A. Troponin Trend Can Differentiate “Stunned” Myocardium in Patients Following Aneurysmal Subarachnoid Hemorrhage. 51st Annual Meeting of the Congress of Neurological Surgeons– San Diego, California. Sept 29-Oct 4, 2001.

40. Little KM, McGirt M, **Villavicencio AT**, Gorecki JP. Comparison of Thorascopic Sympathectomy and Dorsal Column Stimulation for the Treatment of Complex Regional Pain Syndrome. 51st Annual Meeting of the Congress of Neurological Surgeons– San Diego, California. Sept 29-Oct 4, 2001.
41. **Villavicencio AT**, Hussain A, Dimitrov D, Little K, Gorecki J. Intraoperative Somatosensory Evoked Potentials for Nucleus Caudalis DREZ Lesioning. Annual Meeting of the American Association of Neurological Surgeons – Toronto, Canada. April 20-26, 2001.
42. **Villavicencio AT**, Leveque JC, Gray L, Friedman AH. 3-Dimensional CT Analysis of the Relationship Between the Arcuate Eminence and the Superior Semicircular Canal. Southern Neurosurgical Society – Austin, Texas. March 14-18, 2001.
43. **Villavicencio AT**, Dimitrov D, Haglund M, Lewis D, Radtke R, Morse R, Bulsara K, George TM. Hemispherectomy in Older Children with Rasmussen's Disease. Annual Meeting of The Section on Pediatric Neurological Surgery of The American Association of Neurological Surgeons – San Diego, California, December 8-10, 2000.
44. **Villavicencio AT**, New K, Leveque JC, Fuchs H, George T. Relative Risk of Shunt Failure as a Function of Time Following Placement. Annual Meeting of the Congress of Neurological Surgeons – San Antonio, Texas, September 23-28, 2000.
45. **Villavicencio AT**, New K, Bulsara K, Kim J, Gorecki J. Standard Percutaneous Cordotomy Compared with a Novel MRI-guided Stereotactic Frameless Technique. Annual Meeting of the Congress of Neurological Surgeons – San Antonio, Texas, September 23-28, 2000.
46. **Villavicencio AT**, Leveque JC, Haglund M. Real-time Functional Brain Mapping as an Aid to Preoperative Planning in Pediatric Patients. Annual Meeting of the Congress of Neurological Surgeons – San Antonio, Texas, September 23-28, 2000.
47. **Villavicencio AT**, Leveque JC, Fuchs H, George T. Comparison of Revision Rates Following Endoscopically versus Non-endoscopically Placed Ventriculoperitoneal Shunt Catheters. Southern Neurosurgical Society – Jacksonville, Florida. June 20-24, 2000.
48. Bulsara K, **Villavicencio AT**, George T. Clinical Outcome Differences for Lipomelomeningoceles, Intra-spinal Lipomas and Lipomas of the Filum Terminale – Southern Neurosurgical Society – Jacksonville, Florida. June 20-24, 2000.
49. **Villavicencio AT**, Leveque JC, Gray L, Kureshi S, Kim J, Fukushima T, Friedman AH. 3-D CT Angiography Measurements for Improving Surgical Approaches to the Skull Base. Southern Neurosurgical Society – Jacksonville, Florida. June 20-24, 2000.
50. Leveque JC, **Villavicencio AT**, Haglund M. Real-time Functional Brain Mapping as an Aid to Preoperative Planning in Pediatric Patients. Southern Neurosurgical Society – Jacksonville, Florida. June 20-24, 2000.
51. **Villavicencio AT**, Leveque JC, Fuchs H, George T. Comparison of Revision Rates Following Endoscopically versus Non-endoscopically Placed Ventriculoperitoneal Shunt Catheters. Annual Meeting of the American Association of Neurological Surgeons – San Francisco, California, April 8-13, 2000.
52. Kim JW, Smith-Hammond, C, **Villavicencio AT**, Bolser D, Chilampath D, Turner D. Aspiration and Reduced Cough Strength in Cervical Surgery Patients. Annual Meeting of The Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons – Palm Springs, California, Feb. 23-26 2000.
53. **Villavicencio AT**, Archer GE, McLendon RE, Friedman AH, Bishop WR, Bigner DD, Friedman HS, Sampson JH. Treatment of Neoplastic Meningitis with Intrathecal

- Temozolomide. Annual Meeting of The Congress of Neurological Surgeons – Boston, Massachusetts, Oct. 28-Nov. 3, 1999.
54. Heimberger A, Archer GE, **Villavicencio AT**, Friedman AH, Bigner DD, Sampson JH. Functionally Active Dendritic Cells (DC) Generated from Patients with Malignant Glioma. Annual Meeting of the Congress of Neurological Surgeons – Boston, Massachusetts, Oct. 28-Nov. 3, 1999.
 55. **Villavicencio AT**, Pracyk J, Rubin L, Dimitrov D, Bulsara K, Chambers J, Gorecki J. A Prospective, Randomized, Controlled Clinical Trial of Intrathecal Narcotic Analgesia for Chronic Intractable Pain of Non-Malignant Origin. Annual Meeting of the Congress of Neurological Surgeons – Boston, Massachusetts, Oct. 28-Nov. 3, 1999.
 56. Pracyk J, **Villavicencio AT**, Hussain A, Gorecki J. Intraoperative Somatosensory Evoked Potentials for Nucleus Caudalis DREZ Lesioning, Technical Modifications and Results. Annual Meeting of the Congress of Neurological Surgeons – Boston, Massachusetts, Oct. 28-Nov. 3, 1999.
 57. **Villavicencio AT**, Kim J, Gorecki J. A Comparison of Standard Medical Management versus Intrathecal Morphine in the Long-term Treatment of Nonmalignant Pain. North Carolina Spine Society, April 30-May 2 – Winston Salem, North Carolina, 1999.
 58. Leveque JC, **Villavicencio AT**, Gorecki J. Laminectomy versus Percutaneous Lead Placement for Spinal Cord Stimulation. North Carolina Spine Society, April 30-May 2 – Winston Salem, North Carolina, 1999.
 59. **Villavicencio AT**, Gray L, Leveque JC, Kureshi S, Friedman A. 3-Dimensional CT Angiography for Planning Skull Base Approaches to Vertebrobasilar Aneurysms: a Radiographic and Cadaveric Study. 10th Annual Meeting of the North American Skull Base Society, May 27-31 – Chicago, Illinois 1999.
 60. **Villavicencio AT**, Gray L, Leveque JC, Kureshi S, Friedman A. Three-Dimensional CT Angiography for Evaluating Anatomic Variations of the Skull Base in the Region of the Intrapetrous Carotid. 10th Annual Meeting of The North American Skull Base Society, May 27-31 – Chicago, Illinois 1999.
 61. **Villavicencio A**, Leveque JC, Bulsara K, Kureshi S, Gorecki JP. Results Following Laminectomy versus Percutaneous Lead Placement in 48 Patients Undergoing Spinal Cord Stimulation for Intractable Pain. Annual Meeting of the American Association of Neurological Surgeons – New Orleans, Louisiana 1999.
 62. **Villavicencio A**, Bulsara K, Kureshi S, Gorecki JP. Spinal Cord Stimulation for Failed Back Syndrome. Annual Meeting of The Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons – Orlando, Florida, Feb. 10-13, 1999.
 63. **Villavicencio A**, Bulsara K, Kureshi S, Gorecki JP. Spinal Cord Stimulation for Intractable Pain: Critical Evaluation of Technique. Annual Meeting of The Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons – Orlando, Florida, Feb. 10-13, 1999.
 64. **Villavicencio AT**, Rubin LL, Hussain A, Gorecki J. Intraoperative Somatosensory Evoked Potentials for Nucleus Caudalis DREZ Lesioning, Technical Modifications and Results. 2nd Annual Meeting of the Trigeminal Neuralgia Association – Orlando, FL, Nov. 11-15, 1998.
 65. Sampson JH, Archer GE, **Villavicencio AT**, Friedman AH, Bishop WR, Catino JJ, Bigner DD, Friedman HS. Microcrystalline Temozolomide for Treatment of Neoplastic Meningitis., Third Annual Scientific Meeting of The Society for Neurooncology – San Francisco, CA, Nov. 12-15, 1998.

66. **Villavicencio AT**, George TM. Avoiding Complicated Shunt Systems by Open Fenestration of Symptomatic Dandy-Walker Cysts Associated with Hydrocephalus. Annual Meeting of the Congress of Neurological Surgeons – Seattle, WA. Oct 3-8, 1998.
67. **Villavicencio A**, Gorecki JP, Urban B, Spillane W, Leveque JC, Rubin L. Spinal Cord Stimulation: A comparison of laminectomy and percutaneous lead placement. 4th International Neuromodulation Society Congress – Lucerne, Switzerland, Sept. 16-20, 1998.
68. Gorecki JP, Rubin L, Leveque JC, **Villavicencio A**. Prospective Randomized Trial Comparing Intrathecal Narcotic Infusion To Best Medical Management for BENIGN Pain. 4th International Neuromodulation Society Congress – Lucerne, Switzerland, Sept. 16-20, 1998.
69. **Villavicencio A**, Gorecki JP. Complex Regional Pain Syndrome: a systematic approach to treatment. 4th International Neuromodulation Society Congress – Lucerne, Switzerland, Sept. 16-20, 1998.
70. Gorecki JP, **Villavicencio A**, Wellons J, Rubin L. Stereotactic Manipulation: a comparison of radiofrequency, chemical, physical, and electrical stimulation methods of producing “lesions.” 4th International Neuromodulation Society Congress – Lucerne, Switzerland, Sept. 16-20, 1998.
71. **Villavicencio AT**, George TM. Open Fenestration of Symptomatic Dandy-Walker Cysts Associated with Hydrocephalus. Southern Neurosurgical Society - Hot Springs, VA. June 3-7, 1998.
72. Bulsara K, **Villavicencio AT**, Gorecki J. Midbrain Tractotomy. American Association of Neurological Surgeons, Annual Meeting – Philadelphia, 1998.
73. Black PM, **Villavicencio AT**, Loeffler, J. Aggressive Surgery and Focal Radiation in the Management of Meningiomas of the Skull Base: Preservation of function with maintenance of local control. Annual Meeting of the Congress of Neurological Surgeons – New Orleans, LA, 1997.
74. **Villavicencio AT**, Black PM, Alexander EIII, Loeffler JS. Radiosurgery for Skull Base Meningiomas. The American Association of Neurological Surgeons, Annual Meeting, Minnesota, 1996.
75. Yeghiayan SK, **Villavicencio AT**, Campbell A, Baldessarini RJ. Localization of Locomotor Arousal responses to Dopamine Throughout Rat Nucleus Accumbens Septi. The Eighth International Catecholamine Symposium. San Francisco, June, 1996.
76. **Villavicencio AT**, Loeffler JS, Black PM, Alexander EIII. Stereotactic Radiosurgery of Skull Base Meningiomas. Annual Meeting of the Neurosurgical Society of America, Sea Island, Georgia 1995.
77. Black PM, **Villavicencio AT**, Loeffler JS. A Combined Surgical and Radiation Therapy Approach to Skull Base Meningiomas. Annual Meeting of the American Association of Neurological Surgeons, 1995.
78. Black PM, **Villavicencio AT**, Loeffler JS, Alexander EIII. Linear Accelerator Radiosurgery in the Treatment of Skull Base Meningiomas. 2nd Congress of the International Stereotactic Radiosurgery Society 1995.
79. **Villavicencio AT**, Campbell A, Baldessarini RJ. Regional Effects of Unilateral Injection of Dopamine Into the Rat Limbic Accumbens Septi in the Dorsoventral and Rostrocaudal Planes. Soma Weiss Research Symposium, Harvard Medical School 1993.
80. **Villavicencio AT**, Campbell A, Baldessarini RJ. Behavioral Anatomy of the Rat Nucleus Accumbens Septi via Unilateral Stereotactic Microinjection of Dopamine. Harvard Medical School Division of Substance Abuse Research Symposium, Harvard Medical School 1993.

81. **Villavicencio AT**, Campbell A, Yeghiayan SK, Baldessarini RJ. Behavioral Anatomy of the Rat Nucleus Accumbens Septi. McLean Hospital Research Symposium, McLean Hospital and Massachusetts General Hospital 1994.

BOOK CHAPTERS

1. **Villavicencio AT**, Perry M, Bulsara K. Peripheral Nerve Injury and Regeneration. In Gilman S, Goldstein GW, Waxman SG. Neurology Medlink. San Diego: Arbor Publishing, 2005 ed
2. **Villavicencio AT**, Roberson C, Bulsara K, Madison RD, Friedman AH. Peripheral Nerve Injury and Regeneration. In Gilman S, Goldstein GW, Waxman SG. Neurobase. San Diego: Arbor Publishing, 2002 ed.
3. **Villavicencio AT**, Friedman AH. Surgery for Spasmodic Torticollis. In: Lozano AM (ed): Movement Disorder Surgery. Progress in Neurological Surgery. Basel, Karger, 2000, vol. 15, pp. 296-330.
4. **Villavicencio AT**, Madison RD, Friedman AH. Peripheral Nerve Injury and Regeneration. In Gilman S, Goldstein GW, Waxman SG. Neurobase. San Diego: Arbor Publishing, 2000 ed.
5. **Villavicencio AT**, Friedman AH. Surgical Management of Brachial Plexus Injuries and Thoracic Outlet Syndrome. In: Grossman RG, Loftus CM. Principles of Neurosurgery. Lippincott-Raven 1999, Chapter 36, pp. 679-705.
6. **Villavicencio AT**, Friedman AH. Rhizotomy for Torticollis. In: Gildenberg PL, Tasker RR, ed. Textbook of Stereotactic and Functional Neurosurgery, Chapter 107, pp. 1039-1051 McGraw-Hill 1998.
7. **Villavicencio AT**, Perry M, Bulsara K. Peripheral Nerve Injury and Regeneration. In Gilman S, Goldstein GW, Waxman SG. Neurobase. San Diego: Arbor Publishing, 2005 ed.

PUBLICATIONS SCIENTIFIC

1. Leveque JC, **Villavicencio AT**, Bulsara KR, Gray L, Friedman AH. 3-Dimensional CT Analysis of the Relationship Between the Arcuate Eminence and the Superior Semicircular Canal. J of Neurosurgery (*in press*).
2. **Villavicencio AT**, Pushchak E, Burneikiene S, Thramann JJ. The Safety of Instrumented Outpatient Anterior Cervical Discectomy and Fusion. The Spine Journal. (*in press*).
3. **Villavicencio AT**, Burneikiene S, Thramann JJ. Back and Neck pain in Triathletes. Neurosurg Focus 21 (4):E7, pp. 1-8, 2006.
<http://www.aans.org/education/journal/neurosurgical/Oct06/21-4-7-1035.pdf>
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PROFESSIONAL AFFILIATIONS

1999-present	American Association of Neurological Surgeons (AANS)
2002-present	American Medical Association (AMA)
2002-present	Colorado Medical Society (CMS)
2006-present	Colorado Neurosurgical Society
1997-present	Congress of Neurological Surgeons (CNS)
2005-present	AANS/CNS Section on Disorders of the Spine and Peripheral Nerves
2006-present	North American Spine Society (NASS)
1996-2001	Massachusetts Medical Society (MMS)

PERSONAL INTERESTS

Amateur Sport Racing (Cycling, Marathons, Triathlons), SCUBA-diving, Spanish

Amateur Races

May 10, 1998	Clemson Triathlon (1K Swim – 20K Bike – 5K Run)
May 16, 1998	Carolina Beach Triathlon (1.5K Swim – 40K Bike – 10k Run)
May 31, 1998	Escape From Alcatraz Triathlon (1.5 mi. Swim – 18 mi. Bike – 8 mi. Run)
May 12, 2001	White Lake Half Ironman (1.2 mi. Swim – 56 mi. Bike – 13.2 mi. Run)
June 9, 2001	Camp Lejeune Semper Fi Triathlon (1.5K Swim – 40K Bike – 10k Run)
Aug. 11, 2001	Camp Pendleton Muddy Buddy (10 K)
Sept. 9, 2001	City of Los Angeles Jamba Juice Triathlon (1.5K Swim – 40K Bike – 10k Run)
Sept. 16, 2001	Malibu Nautica Triathlon (1/2 mi. Swim – 18 mi. Bike – 4 mi. Run)
Oct. 6, 2001	Death Valley to Mount Whitney Race (138 mi. Bike – 22 mi. Hike [14,497.61 ft. elevation])
Nov. 11, 2001	Long Beach Marathon (26.2 mi.)
Jan. 20, 2002	San Diego Marathon (26.2 mi.)
Feb. 9, 2002	Birmingham Marathon (26.2 mi.)
March 16, 2002	Catalina Island Marathon (26.2 mi.)
April 27, 2003	Nashville Marathon (26.2 mi.)
May 5, 2002	Wild Wild West Marathon, Lone Pine, CA (26.2 mi.)
May 18, 2002	Half Ironman, Oceanside, CA (1.2 mi. Swim – 66 mi. Bike – 13.1 mi. Run)
June 9, 2002	Ironman Utah Triathlon, Provo, UT (Terminated swim & resulting shortened duathlon – 70 mi. Bike – 13.1 mi. Run)
Aug. 25, 2002	5430 Ironman Length Triathlon, Boulder, CO (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
Sep. 1, 2002	Breckenridge Crest Mountain Marathon (26.2 miles [12,500 ft. elevation])
Sep. 29, 2002	Boulder Backroads Marathon (26.2 mi.)
Oct. 19, 2002	World Championship Ironman Triathlon, Kailua-Kona, Hawaii (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
March 15, 2003	Catalina Island Marathon (26.2 mi.)
April 5, 2003	Half Ironman, Oceanside, CA (Terminated swim – 70 mi. Bike – 13.1 mi. Run)
April 26, 2003	Nashville Marathon (26.2 mi.)
May 4, 2003	Wild Wild West Ultramarathon, Lone Pine, CA (50K)
May 24, 2003	Ironman Brazil, Florianopolis (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
June 1, 2003	Steamboat Marathon (26.2 mi.)
June 29, 2003	Ironman Coeur d'Alene (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
July 12, 2003	Mike Horgan Hill Climb bicycle race (22 miles, 4,000 ft. vertical gain)

Aug. 16, 2003 Pikes Peak Ascent (13.1 miles [7,815 ft. elevation gain to 14,110 ft])
 Aug. 17, 2003 Pikes Peak Marathon (26.2 miles [7,815 ft. elevation gain to 14,110 ft])
 Sept. 28, 2003 Boulder Backroads Marathon. 3rd place, male 35-39 age group
 Oct. 4, 2003 Big Sur Trail Marathon
 Oct. 12, 2003 Chicago Marathon
 March 6, 2004 Ironman New Zealand (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
 April 16, 2004 World's Toughest Half Ironman (1.2 mi. Swim – 66 mi. Bike – 13.1 mi. Run). 1st
 place male, age 35-39
 June 27, 2004 Ironman Coeur d'Alene (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run)
 July 18, 2004 5430 Half Ironman Relay (1.2mi. Swim – 56 mi. Bike – 13.1 mi. Run). 1st place
 overall
 July 25, 2004 Ironman Lake Placid (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run). 7th place
 male, age 35-39.
 Aug. 22, 2004 Pikes Peak Marathon (26.2 miles [7,815 ft. elevation gain to 14,110 ft]). 1st
 place, male 35-39 age group
 Sep. 5, 2004 Breckenridge Crest Mountain Marathon (26.2 miles [12,500 ft. elevation])
 Sep. 26, 2004 Boulder Backroads Marathon
 Oct. 16,2004 World Championship Ironman Triathlon, Kailua-Kona, Hawaii (2.4 mi. Swim –
 112 mi. Bike – 26.2 mi. Run)
 April 18, 2005 Boston Marathon (26.2 mi.)
 July 24, 2005 Ironman Lake Placid (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run). 4th place
 male, age 35-39. 19th place overall.
 Aug. 7, 2005 5430 Boulder Half Ironman (1.2 mi. Swim – 56 mi. Bike – 13.1 mi. Run). 2nd
 place relay team.
 Sep. 25, 2005 Boulder Backroads Marathon
 Oct. 16, 2005 World Championship Ironman Triathlon, Kailua-Kona, Hawaii (2.4 mi. Swim –
 112 mi. Bike – 26.2 mi. Run). 9hrs:58 min
 May 28, 2006 Ironman Japan (2.4 mi. Swim – 112 mi. Bike – 26.2 mi. Run). 10th place male,
 age 35-39.
 July 23, 2006 Boulder Peak Triathlon (1.5K Swim – 40K Bike – 10k Run)