

CURRICULUM VITAE

BIOGRAPHICAL

Name: Vinay Deshmukh, M.D., F.A.C.S.

Contact Information: 225 Baldwin Avenue
Charlotte, NC 28204

EDUCATION AND TRAINING

July 2003-October 2003 University of Texas – Southwestern
Fellowship in Complex Spinal Surgery
Program Director: Howard Morgan, M.D.

1998-2003 University of Texas – Southwestern
Residency in Neurological Surgery
Program Director: Duke S. Samson, M.D.

1997-1998 University of Texas – Southwestern
Internship in General Surgery
Program Director: C. James Carrico, M.D.

1993-1997 University of Florida
Doctor of Medicine

1990-1993 University of Florida
Junior Honors Accelerated Med Program
B.S. Interdisciplinary Medical Sciences

PROFESSIONAL EXPERIENCE

2014 – present Assistant Professor, Dept of Neurosurgery, Carolinas Med Ctr

2006 – present Full partner, Carolina Neurosurgery and Spine Associates

2003- 2006 Carolina Neurosurgery and Spine Associates

July 2003-Oct. 2003 Assistant Instructor UT Southwestern Department of Neurosurgery

CERTIFICATIONS

2016 Complete third cycle of ABNS certification (ten year certification)

2012 Completed second cycle of ABNS Maintenance of Certification

2009 Completed first cycle of ABNS Maintenance of Certification

2006 Diplomate American Board of Neurological Surgery (ABNS)

1999 Passed Neurosurgery Written Board Exam

1997 Passed USMLE Step 3

1996 Passed USMLE Step 2

1995 Passed USMLE Step 1

AFFILIATIONS

Diplomat of the American Board of Neurological Surgeons
Fellow of the American College of Surgeons
Congress of Neurological Surgeons
Joint Section of AANS/CNS on Spine and Peripheral Nerves
North American Spine Society
North Carolina Spine Society
North Carolina Medical Society
Mecklenburg Medical Society

DIRECTORSHIPS/LEADERSHIP POSITIONS

2017-present	Director of Market Strategy, CNSA
2014 – 2017	Chief of Neurosurgery, Presbyterian Hospital
2010 – 2016	Neurotrauma Director, Carolinas Medical Center (Level 1 Trauma)
2010-2012	Executive Board of Directors, CNSA

AWARDS/HONORS

Residency:	High Achievement in Neurosurgical Written Board Exam
Medical School:	AOA University of Florida Neurosurgery Student of the Year Award
College:	Junior Honors Accelerated B.S./M.D. Program Phi Kappa Phi Golden Key National Honor Society

PATENTS

“Bone Fusion System and Method,” Patent number 8109961 issued 2/7/12

CONSULTING EXPERIENCE

2013 – present	Chief Neurosurgeon, Medical Safety Committee, NASCAR
2010	Pioneer Surgical Instruments -Development of surgical tools for MIS surgery

TEACHING EXPERIENCE

- Assistant Professor of Neurosurgery CMC Dept. of Neurosurgery
- Mentoring rotating high school students, college students, and medical students
- Mentoring CMC General Surgery Interns on the neurosurgery service
- Journal Club for neurosurgeons/mid-level practitioners

PROFESSIONAL ACTIVITIES

PRESENTATIONS

1. "Minimally Invasive Neurosurgery," Presented at Grand Rounds, Department of Neurosurgery, University of Florida, Aug. 1996
2. "Multilevel Cervical Corpectomy Decompression," Presented at Grand Rounds, Department of Neurosurgery, University of Texas – Southwestern, November, 9th, 1999
3. "Aneurysm of a Persistent Hypoglossal Artery: Case Report", Presented in Aleyeska, Alaska at the Annual Meeting of the Rocky Mountain Neurosurgical Society, 2000
4. "Failure and Complication Rates of Anterior Instrumentation in Patients Undergoing Cervical Corpectomy Decompression," Presented in Palm Springs, CA, Joint Section of Peripheral Nerves and Spine AANS/CNS, 2000
5. "Complication Rates associated with Cerebral Angiography: Review of a 1000 cases", Presented at Toronto, Ontario, Canada, AANS annual meeting, 2001
6. "Stroke Risk with Diagnostic Cerebral Angiography," Presented at Grand Rounds, Department of Neurosurgery, University of Texas – Southwestern, February 2nd, 2002
7. "Aggressive Multimodality Management of Breast Cancer Metastatic to the Brain," Presented at Rocky Mountain Neurosurgical Society Annual Meeting, New Mexico, USA, June 2002
8. "Cervical Arthroplasty using the Bryan Disc: Initial Experience of 50 patients," Presented in Rio de Janeiro, Brazil, World Congress of Spine, August, 2005
9. "Minimally Invasive Spine Surgery," Presented to the Greater Charlotte Association of Physicians of Indian Origin, October 2005
10. "Neurosurgical Trauma Clinical Case Discussion" Moderator of Neurotrauma Symposium, Carolinas Medical Center, October 2005
11. "Management of Cranial Trauma" Presented to the MidAtlantic Emergency Medical Associates, July 2006

12. "Entrepreneurship in Neurosurgery: Maintaining Ethical Integrity" Entrepreneurship in Neurosurgery (EIN) Practical Course, Annual Meeting of the Congress of Neurological Surgeons, 2008
13. "Neurotrauma in Motorsports" Presented at the NASCAR Track Services and Security Summit, January 2009
14. "The Neurosurgeon's Approach to the Spine" Presented at Presbyterian Hospital January 2009
15. "Post-operative kyphosis after corpectomy for resection of intradural extra-axial meningioma" Complications in Spine Surgery Meeting, Jackson Hole, Wyoming, August 2009
16. "Examining the Human Brain" Presented at the annual ANSPA meeting, Oct. 2009
17. "Entrepreneurship in Neurosurgery: Maintaining Ethical Integrity," EIN Practical Course, Annual Meeting of the Congress of Neurological Surgeons, Oct. 2009
18. "Neurotrauma in Motorsports" presented at the NASCAR Track Services and Security Summit, January 2010
19. "Entrepreneurship in Neurosurgery: Maintaining Ethical Integrity," EIN Practical Course, Annual Meeting of the Congress of Neurological Surgeons, Oct. 2010
20. "Medical and Surgical Management of Post-traumatic Intracranial Pressure Elevations," presented at Annual Trauma Symposium, Department of General Surgery, Carolinas Medical Center, November 2010
21. "Minimally Invasive Lumbar TLIF – The CNSA Experience," presented at NeuroCon, December 2010
22. "Surgical Treatment of Cervical Spondylosis," Moderator, Neurocon, December 2010
23. "Neurotrauma in Motorsports," presented at NASCAR annual safety summit, Jan. 2011
24. "Concussions in Motorsports," presented at NASCAR annual safety summit, Jan. 2012
25. "Spinal Injuries and Concussion Management in Motorsports," presented at NASCAR annual safety summit, Jan. 2013
26. "Prevention, Diagnosis, and Management of Concussions," presented at track services meeting May 2013, Charlotte, NC

26. "Surgical Management of Intracerebral Hemorrhage," presented at annual Presbyterian Hospital Stroke Symposium, June 2013
27. "Utility of Baseline Testing in the Management of mTBI," presented at NASCAR R&D Center, Oct. 2013
28. "Adjacent Segment Degeneration in MIS TLIF versus Open TLIF," oral presentation at Congress of Neurological Surgeons Oct. 2014
29. "Surgical Resection of Recurrent Spheno-Orbital Meningioma Presenting with Long Term Visual Loss," oral presentation, Levine Cancer Insititue – Carolinas Medical Center, Aug. 2017
30. "Manaagement of Concussions-Lessons from NASCAR," Grand Rounds presentation, Carolinas Medical Center, Department of Internal Medicine, Oct. 2017

BOOK CHAPTER

Deshmukh, Vinay, Vardiman, Arnold, Morgan, Howard, "Nonunion", Benzel, Edward (Editor), Spine Surgery: Techniques, Complication Avoidance, and Management, Elsevier, Pennsylvania, USA, 2005.

PUBLICATIONS

Deshmukh, VR, "Midline trough corpectomies for the evacuation of an extensive ventral cervical and upper thoracic spinal epidural abscess," *Journal of Neurosurgery Spine*, 13 (2): 229-233, August 2010.

Claytor, G, Deshmukh, VR, "Rehabilitation and Return to Competition of a High Level Athlete with Spondylolysis and Contact Sports Related Recurrent L5 Radiculopathy," *J. Athl. Enhanc* 2016, 5:6, Dec. 2016.

GRANT APPLICATIONS

12-01-09	AANS/CNS Joint Section on Spine Apfelbaum Grant
02-01-10	NASS Research Grant

IRB APPROVED CLINICAL TRIALS

Surgical Management of Recurrent Spheno-Orbital Meningioma Presenting with Long Term Visual Loss: Principal Investigator

Substance P as a biomarker in spine disease: Principal Investigator

Rates of adjacent segment degeneration requiring surgical intervention in patients who have undergone MIS versus open lumbar fusions: Principal Investigator

Caliber versus Resolve interbody stabilization device comparison in patients undergoing TLIF

Trinity Evolution: Co-investigator to study the use of novel allogenic cancellous bone matrix containing progenitor cells in lumbar interbody fusion

CLINICAL TRIALS (Closed)

Guilford: Gliadel / TMZ: Pre-irradiation Gliadel Wafers in Combination with Temozolomide (TMZ) in Newly Diagnosed Patients With High-Grade Gliomas

M6 Artificial Cervical Disc by Spinal Kinetics, Inc.: Multicenter, prospective, single arm feasibility study to evaluate the initial safety and performance of the Spinal Kinetics M6 artificial cervical disc in the treatment of symptomatic cervical radiculopathy

Kineflex – C Artificial Cervical Disc by Spinal Motion, Inc.: The Clinical Investigation of the Kineflex Spinal System

Activ-L™ Artificial Disc by Aesculap, Inc.: Clinical Study to Evaluate the Safety and Effectiveness of the Aesculap Activ-L Artificial Disc in the Treatment of Degenerative Disc Disease.

Transmolecular TM-601: A Phase II Open-Label, Multiple-Dose Study of Intracavitary Administered I-TM-601 in Adult Patients with Recurrent High-Grade Glioma

SERVICE

Carolinas Medical Center

2010-2016 Trauma Outcomes Committee
2010-2016 Trauma Committee
2006-2010 Infection Control Committee

Carolina Center for Specialty Surgery

2012-present QA/Credentials Committee

Presbyterian Hospital

2014- 2017 NH Presbyterian Medical Executive Committee

2014- 2017	NH Presbyterian Surgical Peer Review Committee
2014- 2017	NH Presbyterian SPR Executive Committee
2013- 2017	Novant Surgical Operations Committee
2012- 2017	Trauma Committee
2012- 2017	Spine Services Committee
2012- 2017	Concussion Care Committee
2012- 2017	EMR committee
2010- 2017	Surgical Services Operating Committee
July 2012-Jan 2013	Peer Review Committee
July 2012-Jan 2013	Medical Executive Committee
2007-2012	OR Committee
2006-2010	Neurosurgery Development Team

Congress of Neurological Surgeons

2007-2008

CNS Annual Meeting

Special Course: “The Neurosurgeon as an Educator”
 Practical Course: “Entrepreneurship in Neurosurgery”

2008-2009

CNS Annual Meeting

Scientific Program Committee
 Vice Chair – Special Courses Committee
 Practical Course: “Entrepreneurship in Neurosurgery”

CNS Host committee

2009-2010

CNS University of Neurosurgery Tumor Webinar Series Committee

CNS Annual Meeting

Scientific Program Committee
 Dinner Seminar Committee

CNS Education Committee

2010-2011

CNS University

2010-2011 Webinar Series Committee

CNS Education Committee

CNS Annual Meeting

Scientific Program Committee
Practical Courses

Carolina Neurosurgery and Spine

Director of Market Strategy 2017-present
Board of Directors 2010-2012
E-service Committee 2010-present
Lead Neurosurgeon – Huntersville Office 2007-present
Quality Assurance Committee
MLP Committee
Emergency Services Committee
Physician Liaison for Journal Club

MEDIA ACTIVITIES

TELEVISION

10-12-2017: “Concussions,: WCNC-TV
11-16-2010: “Stem Cells for Spinal Cord Injury,” WSOC-TV
01-31-2010: “Advances in Minimally Invasive Spine Surgery” WTVI
04-04-2005: “Dangers of Trampolines”, WSOC-TV

PRINT

03-20-2005: “Fast Healing Teen Astounds Hospital,” Charlotte Observer
12-02-2005: “Teen Rebounds from Paralyzing Neck Injury,” Charlotte Observer
12-02-2005: “Fall Dashes his Dreams; Focus Brings them Back,” Charlotte Observer
08-03-2007: “Back from the Pain,” Salisbury Post

CNSA Newsletter Activities

Spring 2017 Changing The Way Skull Base Disorders Are Treated with Minimally Invasive Surgery

Fall 2016 Treating Unruptured Aneurysms Can Be An Overnight Success

Spring 2016 Artificial Disc Leads to Real Life Success

Spring 2013 New Solutions for Existing Spine Problems

Spring 2012 Couple Faces Brain Tumor and Spinal Cyst

Fall 2011 Life Saving Procedure for Treating Cervical Spine Infection Developed by Practice Neurosurgery

Summer/Fall 2009: Helping Patients Recover from Spinal Fractures: Advanced Options Significantly Reduce Pain

Summer/Fall 2009: Defusing a Ticking Time Bomb: How Endoscopic Brain Surgery Saved This Young Woman's Life

Spring 2008: Patients Find Alternatives To Spinal Fusion Surgery by Seeking a Second Opinion

Spring 2007: Time & Expertise Make The Difference In Patients Recovering From Traumatic Injury: Teenager Is Back On The Basketball Court Six Months After Suffering A Spine

Spring 2006: Complex Spinal Fusion Is Used To Prevent Paralysis In Patient With Gorham's Disease

Spring 2005: Minimally Invasive Spinal Fusion Got Sandra Back On Her Feet The Day After Surgery

Spring 2005: Artificial Disc Surgery Now Available In Concord

REFERENCES

Residency/Fellowship:

-Duke S. Samson
-Thomas Kopitnik
-Howard Morgan

Current:

-Paul Kim, MD
-E. Hunter Dyer
-Matt McGirt, MD