

Mukund I. Gundanna, M.D.

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Appointments

Brazos Spine / Center for Orthopaedic Specialties, P.A.

Attending spinal and orthopaedic surgeon

Orthopaedic spine specialty practice

Bryan, TX

August 2004-present

Texas A&M Health Science Center / College of Medicine

Clinical Assistant Professor of Surgery

College Station, TX

July 2009- present

Hospital Affiliations

The Physicians Centre, Bryan, Texas

Active Staff

College Station Medical Center, College Station, Texas

Active Staff

St. Joseph Regional Health Center, Bryan, Texas

Active Staff

Scott and White Hospital, Brenham, Texas

Consulting staff

Lakeside Hospital, Bastrop, Texas

Consulting Staff

License and Board Certification

Texas Medical License: L8709

American Board of Orthopaedic Surgery

Effective: 7/28/2006

Expiration: 12/31/2016

Professional Organizations

Fellow, North American Spine Society

Fellow, American Academy of Orthopaedic Surgeons

Member, Western Orthopaedic Association

Member, Association of Pre-sacral Spine Surgeons

Secretary/Treasurer, Brazos Valley Physicians Organization

Member, Aircraft Owners and Pilots Association

Technique Certifications

Artificial Disc Replacement:

DePuy Charite (lumbar), Medtronic Prestige (cervical), Synthes Prodisc (cervical and lumbar)

Dynamic Stabilization:

Zimmer Dynesys, Globus Transition

Minimally Invasive Arthrodesis:

NuVasive XLIF, Trans1 AxiaLIF (360, 2L, 2L plus), Pioneer Crossfuse, Medtronic Sextant, Depuy Viper SI-Bone (SI fusion)

Other Techniques:

Kyphon Kyphoplasty, Medtronic X-Stop, Arthrocare SpineWand

Education

University of California, Los Angeles Spinal Surgery Fellowship	Los Angeles, CA completed July 2004
NYU/Hospital for Joint Diseases Orthopaedic Surgery	New York, NY completed June 2003
Harborview Medical Center Orthopaedic trauma externship	Seattle, WA completed May 2002
Bellevue Hospital Center Surgical Internship	New York, NY completed June 1999
UMDNJ-Robert Wood Johnson Medical School Doctor of Medicine	Piscataway, NJ completed June 1998
Duke University BSE Biomedical Engineering BSE Electrical Engineering	Durham, NC completed Dec 1993 completed Dec 1993
Christian Brothers Academy Secondary School Degree	Lincroft, NJ completed May 1990

Training and Experience

University of California, Los Angeles <i>Fellow in Surgery of the Spine</i> Subspecialty surgical training with orthopaedic spine surgeons and neurosurgeons.	Los Angeles, CA Aug 2003-July 2004
NYU-Hospital for Joint Diseases <i>Resident in Orthopaedic Surgery</i> Specialty surgical training in orthopaedic surgery.	New York, NY June 1998-June 2003
Harborview Medical Center <i>Orthopaedic Trauma Externship</i> Specialty training in orthopaedic trauma surgery	Seattle, WA Jan-May 2002
NYU-Hospital for Joint Diseases <i>Delegate, Committee of Interns and Residents</i> Advocate for residents' union. Was involved in contract negotiations between housestaff and Health and Hospitals Corporation of New York.	New York, NY June 2000-June 2004
UMDNJ-Robert Wood Johnson Medical School <i>Curriculum Committee Member, Student Representative</i> Participated in planning and decision-making regarding curricular and academic affairs at Robert Wood Johnson Medical School.	Piscataway, NJ Oct 1994-June 1998
UMDNJ-Robert Wood Johnson Medical School <i>Homeless and Indigent Population Health Outreach Project (HIP-HOP)</i> Provided health care in clinic and health fair settings for the underserved in the downtown New Brunswick area. Taught clinical skills to junior medical students.	New Brunswick, NJ 1995-1999
The Princeton Review <i>MCAT Physics and Chemistry Instructor/Tutor/Trainer</i>	Princeton, NJ Feb 1996-May 1999
Los Alamos National Laboratory <i>Research Internship, Chemical Science and Technology Division</i> Designed and improved on techniques for welding of bone fractures through use of Nd-YAG lasers and various hydroxyapatite and gelatin "solders". Included evaluation of welds using scanning electron microscopy.	Los Alamos, NM Jan-May 1994

New Jersey Institute of Technology
Physics and Laboratory Instructor, Upward Bound

Newark, NJ
1992-1994

New Jersey Institute of Technology
Laboratory Assistant, Department of Physics
Evaluated oxide deposition techniques on silicon wafers using scanning electron microscopy and computer simulation.

Newark, NJ
1992-1994

Duke University
Department of Biomedical Engineering
Computer modeled the left ventricular septal action potential at a specified patch using the Luo-Rudy model of membrane characteristics and ionic currents.

Durham, NC
Jan-Nov 1993

Durham Education Volunteers
Durham City Public School District
Assistant teacher of elementary school classes (second to fourth grade).

Durham, NC
1991-1993

Matawan Volunteer First Aid & Rescue Squad
Emergency Medical Technician
Provided emergency medical services and transport in the Matawan area.

Matawan, NJ
1989-1992

Honors/Awards/Firsts

First surgeon to implant the Trans1 AxiaLIF 2L+ minimally invasive trans-sacral arthrodesis system (2010)
First surgeon to implant Trans1 Vectre percutaneous facet screws (2009)
First surgeon to perform the Trans1 AxiaLIF in India (2009)
First surgeon to implant the Theken (Integra) Vu aPOD ALIF device (2008)
Medical Advisory Board, Trans1

Developed and currently direct the SpineSmith International Spine Fellowship (2009)

Distinguished Clinical Preceptor, Brazos Family Medicine Residency Program (2008)
Alpha Omega Alpha (Fall 1997)
Champion Scholar (UMDNJ) (1997-1998)
UMDNJ-RWJMS Nominee for AAMC seat on Liaison Committee for Medical Education (LCME)
UMDNJ Alumni Association Scholarship (1996-1997)
Department of Energy Scholar (1994)
Golden Key National Honor Society (1992)
Dean's List (Fall 1990-Fall 1993)
National Honor Society (1993)

Activities/Interests

Private Pilot/VFR-Airplane (1991-present)
Instrument Pilot/IFR-Airplane (1994-present)
Commercial Pilot Training (2000)

Patents, Technique Inventions, and Trademarks

20090299479 Suture guided implant. Published December 3, 2009.

12/589,160 Spondylolisthesis Screw and Instrument for Implantation. (provisional)

77/191,086. "Spine. That's all we do." Registered mark of Brazos Spine. Published March 19, 2008.

78683043. "Brazos Spine" Registered mark of Center for Orthopaedic Specialties. Published June 6, 2006.

Catheter Placement Technique: Minimally Invasive Posterior Lumbar Surgery. On-Q. I-Flow. 2008.

Publications and Presentations

Mourant J, Lacey J, Gundanna MI, Johnson T, Boyer J, Bigio I. Improvements in Laser "Welding" of Chicken Bone Tibias *in vitro*. Proceedings of SPIE: Lasers in Surgery. 2395:478-485, May 1995.

Gundanna MI, Dhupar S, Urs W. Heterotopic Ossification After Total Knee Arthroplasty: Incidence and Consequences. Eastern Orthopaedic Association Meeting. Fall 1999.

Gundanna MI, Eskenazi M, Bendo J, Spivak J, Moskovich R. Somatosensory Evoked Potential Monitoring of Lumbar Pedicle Screw Placement. Paper presentation at NASS 2001.

Madan S, Gundanna MI, Harley JM, Boeree NR, Sampson M. Does Provocative Discography Screening of Discogenic Back Pain Improve Surgical Outcome? Journal of Spinal Disorders and Techniques. 15:245-51, June 2002.

Gundanna MI, Eskenazi M, Bendo J, Spivak J, Moskovich R. Somatosensory Evoked Potential Monitoring of Lumbar Pedicle Screw Placement. The Spine Journal. 3(5):370-6, Sep-Oct 2003.

Gundanna MI, Wang J, Wieser E. Luque Rod and Rectangle with Wire Fixation. Surgical Techniques of Spinal Instrumentation. Kim et al, ed. Thieme. NY, NY, 2005.

Wieser E., Gundanna MI, Wang J. VERTE-SPAN Vertebral Body Replacement Device. Surgical Techniques of Spinal Instrumentation. Kim et al, ed. Thieme. NY, NY, 2005.

Gundanna MI, Wang J. Neurologic Injury in the Lumbar Spine. Complications of Spine Surgery. Jenis et al, ed. Lippincott, Philadelphia, 2005.

Gundanna MI. Occipital Fixation Techniques - Keel Plate versus Screws through Connectors versus Wire versus Bolt. The Cervical Spine. Benzel ed. Lippincott. NY, NY, 2010 (publication pending).

Gundanna MI, Miller LE, Block JE. Perioperative Complications With Axial Presacral Lumbar Interbody Fusion: A Five-Year Postmarket Surveillance Experience. (submitted to the SAS Journal)

Gundanna MI, Kathare AK. Traumatic Dislodgement of a Synthes ProDisc-C cervical artificial disc replacement. (submitted to The Journal of Spinal Disorders and Techniques)

Courses and Seminars as Faculty

Vitoss seminar, New York City, 2006

“Facet screw placement”, APSS Dallas, 2008

“Dynamic Stabilization”, Globus Medical, Philadelphia, 2008

“AxialIF 2L Experience”, NASS, San Francisco 2009

Vu APOD product demonstration, Integra National Sales Meeting, Chicago, 2009

Reduction screw training, Integra National Sales Meeting, Chicago, 2009

Trans1 training and seminar, Houston, 2009

Theken Spine Surgeon Summit, Akron, 2009

“MIS TLIF”, ASSICON, Nagpur, India, 2009

“Dynamic Stabilization: Indications and Precautions”, ASSICON, Nagpur, India, 2009

SpineSmith Stem Cell Roundtable, Austin, 2009

Trans1 training and seminar, Houston, 2010

Trans1 training faculty, APSS, Las Vegas, 2010

I-Passage retractor demonstration for MIS pedicle screws and TLIF, NASS, Orlando, 2010

“Mozaic as an Osteoconductive Scaffold”, Integra National Sales Meeting, Chicago, 2010

Osteobiologics seminar, Integra National Sales Meeting, Tampa, 2010