

An aerial photograph of a city, likely Dallas, Texas, showing a large medical center complex in the foreground. The complex consists of several large, modern buildings with curved and rectangular shapes, surrounded by parking lots and green spaces. In the background, a dense urban area with many skyscrapers is visible under a hazy sky. The text "Texas Medical Center Spine Fellowship" is overlaid in the center of the image.

# Texas Medical Center Spine Fellowship

# Purpose

- “Ideal program”
- Positive learning environment
- Maximum surgical and clinical experience from occiput to sacrum; front and back; minimally and maximally invasive in every aspect of the spine

# Goal


- Develop a complete spine surgeon capable of recognizing and managing a broad variety of spinal conditions
  - Degenerative conditions
  - Deformity
  - Tumors and infections
  - Trauma
  - Adult and pediatric conditions
  - Injections

# Spine surgeons must understand that every case requires knowledge of deformity

- We emphasize that:
  - Every fusion case is a deformity case whether its one level or 20 levels
  - Optimum alignment is critical like fusing the knee, hip, shoulder, elbow, toe or finger
  - Critical evaluation of intraoperative and postoperative alignment with respect to pelvic parameters is necessary to maximize results

# Program Culture

- Open door policy: We listen to your input
  - Teaching
  - Journal club
- Approachable and gifted mentors
- Adapt to the needs and desires of the fellows
- You are wanted guests on our service!

An aerial photograph of a city skyline, likely Chicago, with a large, semi-transparent white text overlay in the center. The text reads "Meet Our Faculty". The background shows a dense urban landscape with various buildings, green spaces, and a highway in the foreground. The sky is clear and blue.

# Meet Our Faculty

# Rex Marco, MD



- Professor, Departments of Orthopaedic Surgery, Neurosurgery and Oncology, University of Texas, Houston
- Director of TMC Spine Fellowship
- Chief of Spine Surgery and Musculoskeletal Oncology, UT Houston Medical School
- Co-Director of spinal deformity, Shriners Hospital
- Undergraduate: UC Irvine
- Medical School: UCLA School of Medicine
- Residency: UC Davis
- Fellowship: Memorial Sloan Kettering Cancer Center Musculoskeletal Oncology Fellowship
- Fellowship: Rush Spine Fellowship

# Christoph Meyer, MD



- Private Practice
- Undergraduate: Cornell University
- Medical School: Columbia
- Residency: Columbia-Presbyterian Medical Center, New York Orthopaedic Hospital
- Fellowship: Frank E. Stinchfield Post-Doctoral Fellowship in Orthopaedic Biochemistry
- Fellowship: Kenton D. Leatherman Spine Fellowship
- Faculty Appointment: Former Assistant Professor @ UT Houston

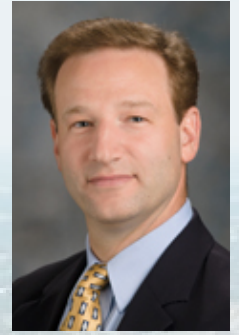


# Darrell Hanson, MD



- Assistant Professor, Dept. of Orthopaedics, Baylor College of Medicine
- Co-Director of spinal deformity, Shriners Hospital
- Undergraduate: Rice University
- Medical School: Baylor College of Medicine
- Residency: Baylor College of Medicine
- Fellowship: Washington University School of Medicine Spine Fellowship

# Laurence Rhines, MD



- Professor and Director of Spine Program, Department of Neurosurgery, University of Texas M. D. Anderson Cancer Center
- Undergraduate: Princeton
- Medical School: Harvard
- Residency: Johns Hopkins Hospital
- Fellowship: Johns Hopkins School of Medicine, Hunterian Neuro-Oncology Fellow

# Justin Bird, MD



- Assistant Professor, MD Anderson Cancer Center
- Undergraduate: Cornell University
- Medical School: Mt. Sinai
- Residency: Mt. Sinai
- Fellowship: MD Anderson Cancer Center, Musculoskeletal Oncology; TMC Spine Fellowship

# David Wimberley, MD



- Texas Orthopaedic Hospital
- Undergraduate: West Texas A&M
- Medical School: UT Southwestern Medical School at Dallas
- Residency: Harvard
- Fellowship: Jefferson Spine Fellowship
- Fellowship: The Brigham and Women's Hospital, Harvard Medical School Spine Surgery Fellowship

# Jeffrey Kozak, MD



- Texas Orthopaedic Hospital
- Undergraduate: Duke University, Biomedical and electrical Engineering
- Medical School: Baylor College of Medicine
- Orthopaedic Surgery: Baylor College of Medicine
- Fellowship: John P. O' Brien Spinal disorders fellowship, London Clinic
- Academic appt: Former Clinical Assistant Professor, Baylor. Director of Baylor Spine Fellowship

# Michael McCann, MD



- Private Practice
- Former Clinical Assistant Professor, Baylor College of Medicine, Departments of PM&R and Anaesthesiology
- Former Director of Pain Medicine and Fellowship Director at Baylor College of Medicine
- Undergraduate: University of Texas
- Medical School: UT Southwestern
- Residency: Baylor
- Fellowship: Texas Tech and Baylor

# The Texas Medical Center est. 1945



# The Texas Medical Center

- The largest medical center in the world!
  - *Member Institutions: 54*
  - *Patient Visits: 7.2 million*
  - *Employees: 106,000*
  - *Physicians: 5,000*
  - *Nurses: 15,000*
  - *Researchers: 5,700*
  - *Life Sciences Students: 49,000*
  - *Faculty: 17,500*
  - *Volunteers: 10,000*
  - *Research: \$3.4 billion*
  - *Patient Beds: 7,000*
  - *Annual Surgeries: 171,000*
  - *Total Operating Budget: \$15 billion*
  - *Charity Care: \$960 million*
  - *Total Size/Gross Square Foot (includes all campuses):*
    - *45.8 million square feet*
    - *1,345 Acres*
    - *290 Buildings*



# Fellowship Rotations

- Complex spine surgery including adult and pediatric deformity, spine and sacral tumors, and spine trauma with Dr. Rex Marco for 2 months.
- Degenerative spine surgery with Dr. Chris Meyer for 2 months
- Degenerative spine surgery with Drs. David Wimberley and Jeff Kozak for 2 months
- Spine tumor rotation with Drs. Larry Rhines and Justin Bird for 2 months
- Adult and pediatric deformity with Dr. Darrell Hanson for 2 months
- Flex rotation: Image guided and minimally invasive spine surgery, spine trauma, injections, general spine surgery, research for 2 month

# Surgical Experience

- Approximately 300+ cases (thousands of levels) per fellow
- Vast surgical exposure to open and minimally invasive techniques
- Occiput to Sacrum
  - Microscopic discectomy
  - ACDF
  - TLIF
  - XLIF/DLIF
  - Transthoracic and retroperitoneal corpectomy and reconstruction
  - Occiput to pelvis spinal instrumentation
  - Image guided surgery
  - Minimally invasive spine surgery
  - Kyphoplasty
  - En bloc spondylectomy
  - Transpedicular osteotomy
  - Both hook and pedicle screw posterior spinal instrumentation for spinal deformity correction

# Surgical Experience, Cont.

- Our Fellows operate at:
  - Memorial Hermann Hospital
  - The Methodist Hospital
  - Texas Children’s Hospital
  - Shriners Hospital for Children
  - MD Anderson Cancer Center
  - Houston Orthopaedic and Spine Hospital
  - Texas Orthopaedic Hospital

# Clinical Experience

- Excellent outpatient experience
- Attend clinic weekly on each rotation
- Learn to completely assess the patient with spinal disorders, including:
  - spine specific history taking
  - physical exam
  - evaluation of radiographic findings
  - an understanding of the results of treatment and diagnostic modalities
  - Technically level 5 GME milestones

# Didactics and Conferences

- Bi-weekly conference dedicated to teaching the fellows indications, surgical technique, critical thinking, board preparation, presentation skills, and billing and coding
- Classic articles journal club
- Monthly pediatric spine journal club
- Monthly pediatric deformity conference

# Didactics and Conferences

- Quarterly spine study group
- Courses: Fellows have numerous opportunities to attend spine meetings and courses nationally and internationally
- Quarterly: Cadaver courses with Depuy Synthes covering minimally invasive, cervical, deformity, trauma, tumor
- Apprenticeship in degenerative conditions, deformity, trauma, tumors and injections

# Research

- Required
- One publishable manuscript
- Endless number of projects available with our faculty

# Benefits

- \$60,000 stipend
- Licensing
- Life/medical/dental insurance
- Workers comp insurance
- Malpractice insurance
- iPhone with local number
- Lab coats
- Parking
- Travel to courses and meetings



# Other

- Encourage post graduation communication
- Prepare for oral boards



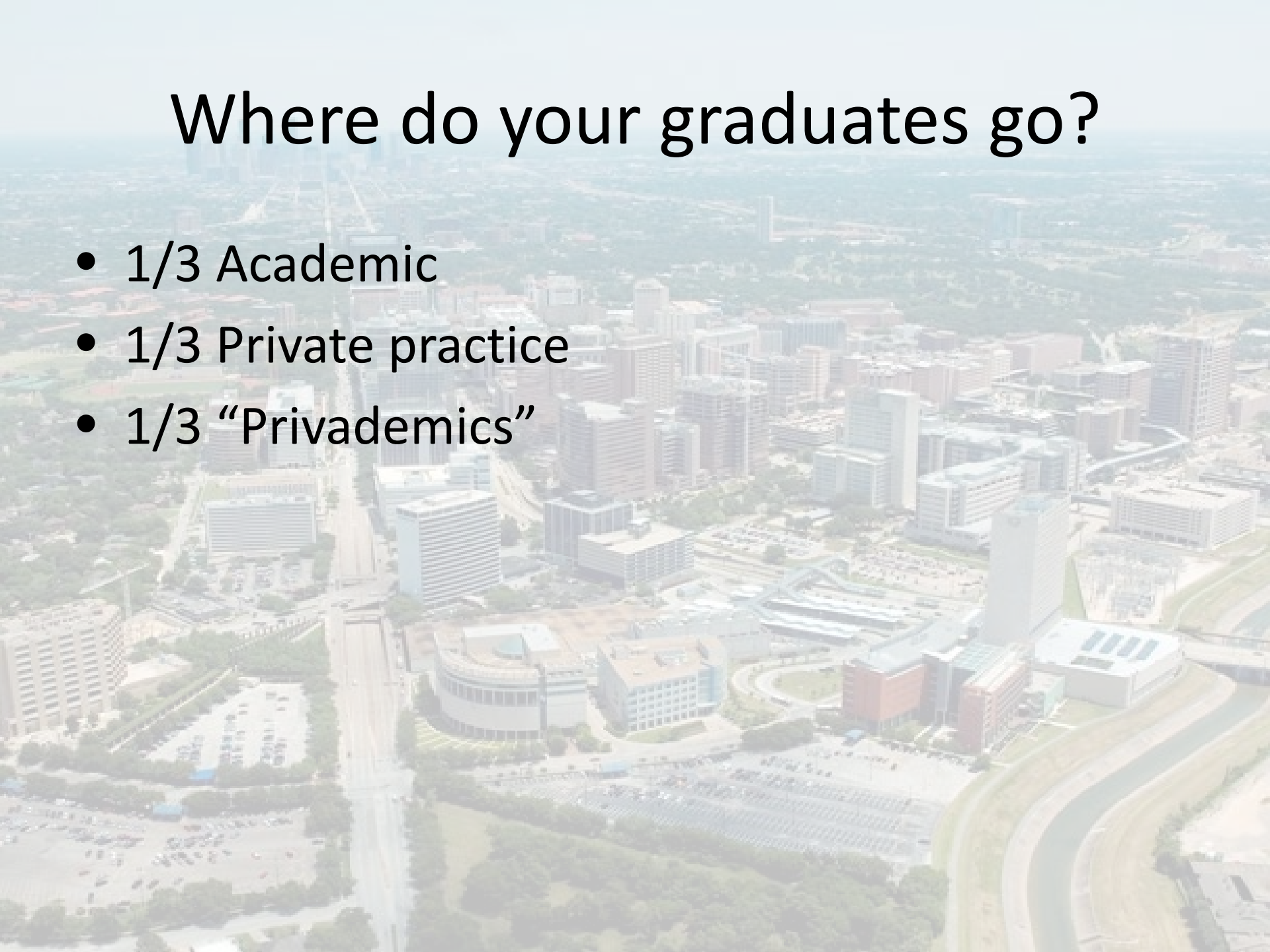
# Houston

An aerial photograph of Houston, Texas, showing a dense urban landscape with numerous skyscrapers and modern buildings. The city is surrounded by greenery and a network of roads. The sky is clear and blue.

- Great place to be for a year
- Sports
- Recreation
- Beach
- Lakes
- Restaurants
- Culture

# Where do your graduates go?

- 1/3 Academic
- 1/3 Private practice
- 1/3 “Privademics”



# The Texas Medical Center est. 1945

