

RAJ V. KAKARLAPUDI, M.D.
CURRICULUM VITAE

Contact Information

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Employment

Commonwealth Orthopedic Centers
Commonwealth Spine Center
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Florence, KY 41042
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Education

August 2009-July 2010: Spine Fellowship
Indiana Orthopedic Hospital (OrthoIndy Spine)
8450 Northwest Blvd.
Indianapolis, IN 46278

July 2004-June 2009: Orthopaedic Surgery Residency
UNIVERSITY OF MISSOURI-COLUMBIA
Department of Orthopedic Surgery
One Hospital Drive
Columbia, MO 65212

July 2000- June 2004: Medical Student
CREIGHTON UNIVERSITY SCHOOL OF MEDICINE
2500 California Plaza
Omaha NE 68178

July 1996-May 2000: Pre-Medicine
CREIGHTON UNIVERSITY
2500 California Plaza
Omaha NE 68178

July 1992-June 1996: High School
SHAWNEE MISSION WEST
Shawnee Mission, KS 66215

Medical Examinations/License

State of Kentucky Medical License Current

State of Indiana Medical License Current
State of Missouri Temporary License Expired

Orthopedic Board Part I: Completed

USMLE Step I: Completed
USMLE Step II: Completed
USMLE Step III: Completed

Awards

- + William J Albano Award. Award presented by the Creighton University Department of Surgery in the School of Medicine for outstanding research activity for 2004.
- + Presented and Awarded Second Prize at European Student Conference, Berlin, Germany. Nov 2002. Transforming Growth Factor Beta 1 Accelerates New Bone Formation after Medullary Reaming.
- + Grand Award Recipient at University of Texas Medical Branch Department of Orthopedics and Rehabilitation for Best Oral Presentation at 43rd annual national student research forum. Galveston, TX, April 2002 “Acceleration of Bone Formation in Injured Marrow Cavity by TGFb-1”
- + Awarded Second Best Oral presentation at Midwest Student Biomechanical Research Forum, 2001.

Research Experience

Indiana Orthopedic Hospital (OrthoIndy Spine) 2009-2010

Analysis of Rod Failures of Four Titanium Rod Types in Deformity Correction.
T.R. Trammell, K. Flint, K.E. Davis, **R.V. Kakarlapudi**

Cadaveric Study in Assessing Reliability of Disc Space Preparation in Open Transforaminal Lumbar Interbody Fusion (TLIF) versus Percutaneous Interbody Fusion. David Schwartz MD, Joe Riina MD, Jean-Pierre Mobasser, MD, Eric Potts, MD, Kathy Flint, RN/MSN, Ken Davis, MS, **Raj Kakarlapudi MD**

Cadaveric Study in Assessing Adequacy of Disc Space Preparation in Open Transforaminal Lumbar Interbody Fusion (TLIF) versus MAST TLIF (MAST TLIF). Joe Riina MD, David Schwartz MD, Jean-Pierre Mobasser, MD, Eric Potts, MD, Kathy Flint, RN/MSN, Ken Davis, MS, **Raj Kakarlapudi MD**

Incidence of dysphagia after anterior cervical fusion procedure with various types of anterior cervical plates: a short and long term follow-up study. Joe Riina, Kathy Flint, David Schwartz, **Raj Kakarlapudi**

2004-2009

University of Missouri-Columbia: Department of Orthopedics

Osteogenic Cell Viability in Bone Graft Obtained Using the Reamer Irrigator Aspirator (RIA) System Versus Iliac Crest Bone Graft. Currently obtaining specimen.

2000-2004

Creighton University

Harry Truman Veterans Affairs in association with Creighton University
Department of Orthopedics

Creighton University Biomedical Engineering Center
Student Research Grant, Dr. Reginald Knight, Dr. Dennis Chakkalalakal

- ✦ Developed Tartrate Resistant Acid Phosphatase (TRAP) assay for osteoclastic activity in rat specimen
- ✦ Examined the effects of TGF- β 1 in osteogenesis after medullary reaming in rat femurs
- ✦ Pilot study to examine spatial variation in bone markers in rat femurs: a bone biology study in a hip arthroplasty model

Grants

- ✦ Cadaveric Study in Assessing Reliability of Disc Space Preparation in Open Transforaminal Lumbar Interbody Fusion (TLIF) versus Percutaneous Interbody Fusion. David Schwartz MD, Joe Riina MD, Jean-Pierre Mobasser, MD, Eric Potts, MD, Kathy Flint, RN/MSN, Ken Davis, MS, **Raj Kakarlapudi MD. Spinology Grant: \$23000 (2010)**
- ✦ **Kakarlapudi R**, Crist B, Della Rocca G, Misfeldt M. Osteogenic Cell Viability in Bone Graft Obtained Using the Reamer Irrigator Aspirator (RIA) System Versus Iliac Crest Bone Graft
- ✦ Orthopaedic Trauma Association Basic Research Grant: OTA Grant awarded for \$10,000 Dec 2008

- ✦ **Kakarlapudi R**, Crist B, Della Rocca G, Misfeldt M. Osteogenic Cell Viability in Bone Graft Obtained Using the Reamer Irrigator Aspirator (RIA) System Versus Iliac Crest Bone Graft
 - AO Resident Grant: Awarded (August 2007) \$5000.00
- ✦ **Kakarlapudi, R.** The effects of TGF-b on bone healing. Student Research Grant of \$5000 Awarded 2002 Creighton University.
- ✦ Recipient of Alpha Omega Alpha (AOA) Student Research Grant/Award for \$5000. Awarded 2001 Creighton University.

Publications/presentations/poster sessions

- ✦ Analysis of rod failures in four titanium rod types used for deformity correction. Dr Terry R Trammell, Kathy Flint MSN, Kenneth E Davis MS, Raj V Kakarlapudi MD.
 - Presented at the 6th Annual St. Vincent Health Research Symposium, June 16, 2010. Indianapolis, IN. Physician Poster winner and presented by Dr. Terry Trammell
- ✦ Translational Cervical Plate Fixation: An Evaluation of Compression Rate and Timing. Dr Terry R Trammell, Kathy Flint MSN, Kenneth E Davis MS, Raj V Kakarlapudi MD
 - Poster presentation 26th Annual Meeting of Cervical Spine Research Society. Corfu Island, Greece. May 26-29, 2010
- ✦ Choma T, Burke M, Kim C, **Kakarlapudi R**. Epidural Abscess as a Delayed Complication of Spinal Instrumentation in Scoliosis Surgery - A case of progressive neurologic dysfunction with complete recovery. Spine. 2008 Feb 1;33(3):E76-80
- ✦ **Kakarlapudi R**, Fritz E, Mollner T, Novak J, Langan A, Knight R, Chakkalakal D. Transforming Growth Factor Beta 1 Accelerates New Bone Formation after Medullary Reaming. Trans Ortho Res Soc, Feb 2003, Volume 28. Page 1350.
- ✦ **Kakarlapudi R**, Fritz E, Mollner T, Novak J, Langan A, Knight R, Chakkalakal D. "Bone Biology after Medullary Reaming in Rat Femur" Midwest Student Biomedical Research Forum, Omaha, NE. Feb 2001.
- ✦ Bechtold C, **Kakarlapudi R**, Knight R, Chakkalakal D. "Medullary osteogenesis in hip arthroplasty"

Language Fluency (Other than English)

Telugu

Hobbies & Interests

Traveling, tennis, running, landscaping