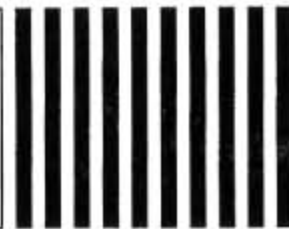


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Exempla Good Samaritan Hospital
300 Exempla Circle, Suite 270
Lafayette, Colorado 80026

DISTINGUISHED SPEAKERS



Jeffrey J. Thramann, M.D.
Dr. Thramann received his Bachelor of Science degree from the United States Military Academy at West Point and his M.D. from the Cornell University Medical College. He

completed his neurosurgical residency and spine surgery fellowship at the distinguished Barrow Neurological Institute in Phoenix. Founder of the Boulder Back Institute, Dr. Thramann specializes in the comprehensive treatment of spine disorders with an emphasis on minimally invasive techniques.



Alan Zacharias, M.D.
Dr. Zacharias is a graduate of the University of Mississippi School of Medicine. He completed his neurology residency at the University of Virginia and fellowship in neuromuscular

disease and EMG at Emory University. He was the former director of the EMG laboratory at Emory before entering private practice. He is currently in Boulder with Associated Neurologists. He practices general neurology with special interest in neuromuscular disease.



John J. Oro, M.D.
Dr. Oro received his neurosurgical training at the University of Missouri Health Sciences Center in Columbia, Missouri and joined the faculty in 1984. In 1990, he became Director of the

Neurological Surgery Training Program and, in 1991, Chief of the Division of Neurological Surgery. In 2005 he joined The Medical Center of Aurora as Medical Director of Neurosurgery and as Director of The Neurosurgery Center of Colorado.



Gregory Arends, M.D.
Dr. Arends specializes in diagnostic and therapeutic spinal injections and interventional techniques. He received his M.D. from the Wayne State University School of Medicine

and completed his residency in Physical Medicine and Rehabilitation (Physiatry) at the Rehabilitation Institute of Chicago and Northwestern University. His fellowship in Interventional Spine was through the Emory/Georgia Pain Physicians Pain Management Fellowship in Atlanta.



John A. Odom, M.D.
Dr. Odom graduated from the University of Tennessee School of Medicine in 1962, spent two years in general surgery training at the University of Pennsylvania in Philadelphia and

completed his training in Boston at Lahey Clinic - Shriners - Tufts University orthopedic residency program. He became board certified by the American Board of Orthopedic Surgery in 1971 and is a member of several spinal societies including the Scoliosis Research Society.



Cathleen Van Buskirk, M.D.
Dr. Van Buskirk completed her residency in orthopedic Surgery at the University of New Mexico. She went on to complete the adult spine surgery fellowship at Thomas Jefferson University in

Philadelphia and a pediatric spine surgery fellowship at St Vincent de Paul Hospital in Paris, France. She is board certified and has been practicing in Boulder since 1999. She is also a member of the Scoliosis Research Society and has a special interest in the challenging field of scoliosis.



Lee Nelson, M.D.
Dr. Nelson received his MD from the Baylor College of Medicine and Texas Medical Center in Houston. He has had extensive training in the treatment of spinal trauma at the

Ben Taub General Hospital, one of the largest and most active Level 1 trauma centers in the country and in the surgical and nonsurgical management of spinal oncology from his experience at the renowned M.D. Anderson Cancer Center.



Daniel S. Bennett, M.D.
Dr. Bennett is an interventional spine/pain medicine physician from Denver, Colorado. He is the Founder and immediate past-Chairman of the Board of Directors of The National Pain

Foundation. He has served on the Board of Directors of the North American Neuromodulation Society and is actively involved with the American Academy of Pain Medicine.



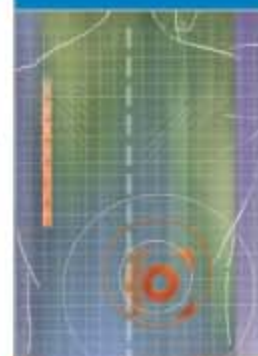
Lee McNeely, M.D.
Dr. McNeely trained at the University of Utah and was board certified in 1990. He has been practicing in Boulder since 1992 and working extensively with the Rocky Mountain

Cyberknife Program since February 2003. His special interests include prostate cancer, spine lesions, and respiratory tracking for lung tumors under Cyberknife treatment.



Sanut Dixit, M.D.
Dr. Dixit received fellowship training in Interventional Neuroradiology and Cerebrovascular surgery in Memphis, TN from 2001 to 2003 at Baptist Memorial Hospital as a

member of the Semmes-Murphey Neurologic & Spine Institute. He joined the faculty of Semmes-Murphey and also had a joint appointment in Radiology with Mid South Imaging & Therapeutics from 2003-2006, as the only endovascularly trained neurosurgeon on staff. Dr. Dixit is one of only a handful of physicians in the United States cross-trained in both neurosurgery and interventional neuroradiology.



Sponsored indirectly through research activities by the Justin Parker Neurological Research Fund in care of the Boulder Community Hospital Foundation

Current Techniques in the Treatment of Cranial and Spinal Disorders

NEW TOPICS ON MINIMALLY INVASIVE TREATMENTS INCLUDING PERCUTANEOUS DISCECTOMY AND FUSION AND ENDOVASCULAR CRANIAL AND SPINAL SURGERY

Saturday, November 11, 2006

Lakeview Pavilion, The Westin, Westminster, Colorado



This program is jointly sponsored by the Boulder Neurosurgical Associates and Medical Education Resources.

PROGRAM OBJECTIVE

Dear Colleague:

It is my pleasure to welcome you to the 3rd Annual Boulder Neurosurgical Associates Symposium. We hope that you can join us for a program that promises to be very educational. This course offers 7.5 hours of AMA category 1 CME credit and is a one-day advanced educational seminar for anyone involved in the care of neurosurgical patients including, but not limited to, primary care physicians, surgeons, interventional physiatrists, chiropractors, physician assistants, nurse practitioners, and physical therapists. We know that the busy practitioner cannot afford to leave their practices for a course unless it offers a genuinely outstanding educational experience. We have therefore planned a highly interactive program that includes multiple dynamic talks from each of the course faculty members describing "cutting-edge" techniques and advances in their field of expertise followed by challenging case discussions. The goal of this program is to create a stimulating learning experience for faculty and participants alike, which advances our knowledge of contemporary treatments in both operative and non-operative treatment of neurosurgical patients. This course offers information related to improvements in the management of both cranial and spinal disorders. Specifically, we will be discussing recent advances in surgical and non-surgical therapies including minimally invasive techniques for both cranial and spinal disorders. Associated topics will include percutaneous discectomy and fusion, endovascular neurosurgery, new advances in treating Chiari malformation, CyberKnife radiosurgery for tumors and vascular malformations, neuromodulation for pain disorders, treatment of neck and back pain in athletes, intraoperative image guidance and the treatment of spinal deformity including scoliosis. New motion preservation techniques will be discussed that are designed to give patients with discogenic pain alternative options to spinal fusion.

The importance of spinal alignment associated with fusion and techniques and indications for total disc arthroplasty will be discussed. This symposium is being made possible by educational grants from multiple sponsors and Boulder Neurosurgical Associates, an independent organization dedicated to advancing expertise in the management of neurosurgical disorders. Thank you for your attention and support.

Alan Villavicencio, M.D.
Program Chairman

DISTINGUISHED VISITING PROFESSOR



Jeffery Henn, M.D.

Dr. Henn received his medical degree from Duke University School of Medicine. He completed his residency in Neurosurgery at the Barrow Neurological Institute in Phoenix, Arizona. He also completed fellowships in Spine Surgery and Cerebrovascular/ Skull Base Surgery. After his training he joined the faculty of the University of Florida Department of Neurosurgery. There he developed his interest in cutting edge spinal techniques, including minimally invasive spine surgery. He has authored numerous articles and served as editor for several publications in this field. He has also spoken both nationally and internationally on the topic of complex spinal surgery. Dr. Henn and his wife recently relocated to Fort Myers, Florida where he enjoys a successful neurosurgical practice.



Program Chairman,
Alan Villavicencio, M.D.

Alan T. Villavicencio, M.D. earned his M.D. from Harvard Medical School and completed his neurosurgical residency at Duke University. He went on to perform an orthopedic spine surgery fellowship at the Institute for Spinal Disorders at Cedars-Sinai in Los Angeles. Dr. Villavicencio has extensive training in the treatment of spinal deformity, scoliosis, artificial disc replacement and minimally invasive spine surgery including endoscopy. Dr. Villavicencio has published more than 50 papers and is the primary investigator in several ongoing prospective randomized trials on both cranial and spinal surgery.

2006 PROGRAM SCHEDULE

Morning Session

8:00	Introduction & Welcome	Alan Villavicencio, MD
8:05	New Developments in the Treatment of Deformity	John Odom Sr., MD
8:40	Minimally Invasive Endovascular Techniques	Sanat Dixit, MD
9:15	Differentiating Neurosurgical Disorders that Mimic Neurosurgical Problems - Avoiding Unnecessary Surgery	Alan Zacharias, MD

9:50 Coffee & Danish Break

10:15	Chiari I Malformation: Current and Future Treatments	John Oro, MD
10:50	Minimally Invasive Spine Surgery - Pearls and Pitfalls	Jeffery Henn, MD
11:25	Cyberknife Treatment of Intracranial and Spinal Lesions	Lee McNealy, MD

12:00 Lunch in the Lakeview Pavilion

Afternoon Session

12:45	Motion Preservation Surgery - Beyond Spinal Arthroplasty	Jeffery Thramann, MD
13:20	Endovascular Treatment of Carotid Disease and Stroke Intervention	Sanat Dixit, MD
14:00	Neuromodulation for Neuropathic Pain	Daniel Bennett, MD

14:35 Afternoon Break & Snack

14:40	Conditions that can Mimic Spinal Pain Syndromes	Gregory Arends, MD
15:15	Surgical and Non-Surgical Treatment of Scoliosis	Cathleen Van Buskirk, MD
15:50	Neck and Back Pain in High Level Athletes and Total Disc Arthroplasty	Alan Villavicencio, MD
16:25	Intraoperative Guidance: Past, Present and Future	Lee Nelson, MD
17:00	Adjournment, Closing Remarks and Discussion	Alan Villavicencio, MD

Cocktails and Dinner to immediately follow in the Lakeview Pavilion

Thanks to Our Sponsors



This activity has been planned and implemented in accordance with the Essentials Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Medical Education Resources and the Boulder Neurosurgical Associates. Medical Education Resources is accredited by the ACCME to provide continuing medical education for physicians.

Medical Education Resources designates this continuing medical education activity for a maximum of 7.5 category I credits toward the AMA's Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Saturday, November 11, 2006 • Lakeview Pavilion, The Westin, Westminster, CO

Current Techniques in the Treatment of Cranial and Spinal Disorders

HOW TO REGISTER: \$75 deposit required for registration. 50% of this will be refunded upon check-in*

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Attn: Pat Bronikowski

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PRE-REGISTRATION DEADLINE: NOVEMBER 3, 2006

*The majority of the cost of this course is covered by Boulder Neurosurgical Associates and its sponsors. The \$75 deposit reserves your seat at this seminar, 50% of which will be refunded to participants the day of the event.