

PROGRAM CHAIRMAN

PROGRAM OBJECTIVE



Program Chairman,
Alan Villavicencio, M.D.

Alan Villavicencio, MD, earned his M.D at Harvard Medical School and completed his residency in Neurological Surgery at Duke University Medical Center. He went on to complete an orthopedic spine surgery fellowship at the Institute for Spinal Disorders at Cedars-Sinai Medical Center in Los Angeles. Dr. Villavicencio is a Board Certified expert in the treatment of spinal deformity, scoliosis, artificial disc replacement and minimally invasive spine surgery including endoscopy. Dr. Villavicencio has published over 60 neurosurgical articles and book chapters and has given over 100 talks at national and international neurosurgical meetings. He is the primary investigator in several ongoing prospective randomized trials involving brain and spine surgery.

Dear Colleague,
It is my pleasure to welcome you to the 2nd 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 I 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 and nurse practitioners. In response to multiple requests from local physicians we have expanded our itinerary to include some cranial neurosurgical disorders. 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 discuss recent advances in surgical and non-surgical therapies. In addition, current clinical trials related to head injury, spinal alignment associated with fusion and techniques and indications for total disc arthroplasty are 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.

Alan Villavicencio, M.D.
Program Chairman

DISTINGUISHED FACULTY



Jeffrey Thramann, M.D.
Jeffrey J. Thramann, M.D. 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.



Samuel E. Smith, M.D.
Dr. Smith has been in practice in Boulder County since 1994. He began in private practice at the Lincoln Orthopedic & Sports Medicine Clinic in Lincoln, Nebraska, where he specialized in spine surgery for four years before joining the Front Range Orthopedic Center. A native of Omaha, Nebraska, he received his Bachelor of Arts degree from the University of Nebraska. He earned his medical degree at the University of Nebraska, where he also completed his orthopedic residency.



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.



Steven M. Zak, M.D.
Steven M. Zak, M.D. completed the honors program in medical education at Northwestern University, Chicago, Illinois, where he received his B.S. and M.D. After completing his neurology residency at the University of Arizona Health Sciences Center, Tucson, he finished a fellowship in Clinical Neurophysiology at the University of Illinois at Chicago. In 1986, he established the intraoperative monitoring program at Ingalls Memorial Hospital, Harvey, Illinois.



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 I 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.
Daniel S. Bennett, MD, DABPM 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.



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 – Shriner's – Tufts University orthopaedic residency program. He became board certified by the American Board of Orthopaedic Surgery in 1971 and is a member of several spinal societies including the Scoliosis Research Society.



Alan Zacharias, M.D.
Dr. Alan 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.

ACCME Accredited

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Medical Education Resources and the Boulder Neurological Institute. 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 1 credits toward the AMA's Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

Medical Education Resources is an approved provider of continuing education by the Colorado Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This CE activity provides 9 contact hours. Provider approval expires July 31, 2007. Provider approved by the California Board of Registered Nursing, Provider #CEP 12299, for 9 contact hours.

Saturday Oct. 8, 2005 | Omni Interlocken Resort, Broomfield, Colorado

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*
Phone: Call 303-998-0004 with credit card information.
Mail: Send this card with a check to:
Boulder Neurosurgical Associates
Boulder Community Hospital Medical Pavilion
1155 Alpine Avenue, Suite 320
Boulder, Colorado 80304

For more information visit: www.bnasurg.com/symposium
Please Print

Name	Degree: MD DO DC Other
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Specialty	

HOTEL INFORMATION

You may reserve a room at the Omni Interlocken by calling:

1-888-THE-OMNI
or
303-464-3211
or by visiting
www.omnihotels.com

I WILL ATTEND: SEMINAR, COCKTAILS AND DINNER SEMINAR ONLY
REGISTRATION DEADLINE: SEPTEMBER 8, 2005
*The majority of the cost of this course is covered by Boulder Neurosurgical Associates and course sponsors. The \$75 deposit reserves your seat at this seminar. 50% of which will be refunded to participants the day of the event.

Thanks to Our Sponsors



SCHEDULE

Morning Session

8:00	Introduction and Welcome	Alan Villavicencio, M.D.
8:05	History of Spinal Surgery	John Odom Sr., M.D.
8:45	Spinal Electrodiagnostics and Interventional Techniques	Gregory Arends, M.D.
9:15	Differentiating Neurological Disorders That Mimic Neurosurgical Problems-Avoiding Unnecessary Surgery	Alan Zacharias, M.D.
10:00	Neuromodulation in the Treatment of Axial and Extremity Pain	Daniel Bennett, M.D.
10:40	Coffee and Danish Break	
10:50	Electrophysiology and Intraoperative Neuromonitoring: a Modern Approach	Steven Zak, M.D.
11:30	Strategies for Patient Selection to Improve Surgical Outcome	Sam Smith, M.D.

Lunch in the Private Dining Room

Afternoon Session

13:00	Advances in Radiosurgery of Cranial and Spinal Tumors	Lee McNeely, M.D.
13:45	Contemporary Neurosurgical Management of Cranial and Spinal Trauma	Alan Villavicencio, M.D.
14:15	Minimally Invasive Spinal Surgery - Percutaneous Spinal Fusion, Kyphoplasty and Other Techniques	Jeffrey Thramann, M.D.
14:45	Total Disc Arthroplasty in the Spine: Techniques and Indications	Alan Villavicencio, M.D.
15:30	Afternoon Break & Snack	
16:00	Sub-occipital Cephalgia and Cervico-genic Headache: Diagnosis and Interventional Treatments	Gregory Arends, M.D.
16:30	Minimally Invasive Endoscopic and Microscopic Transphenoidal Surgery for Pituitary Lesions	Lee Nelson, M.D.
17:00	Closing Remarks	Alan Villavicencio, M.D.

Cocktails and Dinner to Immediately Follow in the Private Dining Room

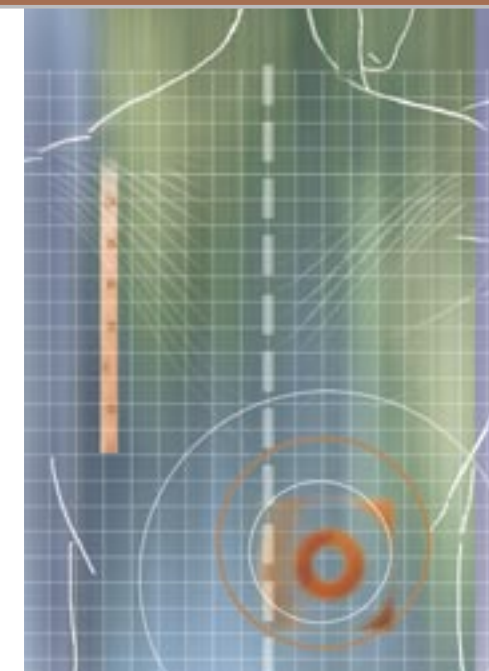


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NEUROSURGICAL
ASSOCIATES**

Boulder Community Hospital
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