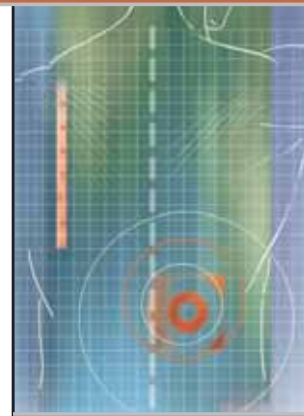


A ONE-DAY SYMPOSIUM MADE POSSIBLE BY BOULDER NEUROSURGICAL ASSOCIATES

Current Techniques in the Management of Spinal Disorders

THIS MULTIMODALITY APPROACH TO PATIENTS WITH SPINAL DISORDERS IS UNLIKE ANY OTHER IN THE COMMUNITY



Saturday May 22, 2004

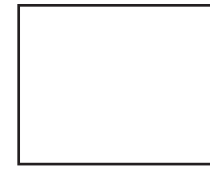
Boulderado Hotel, Boulder, Colorado

BOULDER
NEUROSURGICAL
ASSOCIATES

Boulder Community Hospital
Medical Pavilion
1155 Alpine Avenue, Suite 320
Boulder, Colorado 80304



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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 involving spinal surgery.

PROGRAM OBJECTIVE

This symposium represents an advanced course for spine surgeons, interventional physiatrists, primary care physicians, chiropractors, and nurse practitioners. We know that the busy practitioner cannot afford to leave their practices for a course unless it offers a genuinely outstanding educational experience. We therefore plan a highly interactive program that includes multiple very dynamic talks from each of the course faculty members describing up to date 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 treatments of the spine. Our multimodality

approach to patients with spinal disorders is unlike any other in the community. Regardless of whether a patient requires surgery, they will find the most up to date and current techniques for the management of their spinal disorder at the Boulder Neurosurgical Associates. This symposium is being made possible by an unrestricted educational grant by the Boulder Neurosurgical Associates, an independent organization dedicated to advancing expertise in the management of spinal disorders.

Alan Villavicencio, M.D.
Program Chairman,

SCHEDULE

	8:00	Introduction and Welcome	Alan Villavicencio, M.D.
	8:05 8:35	Understanding Back Pain Case Presentation & Discussion	Jeffrey Thramann, M.D. Jeffrey Thramann, M.D.
	8:45 9:15	Electrodiagnostics in the Evaluation and Management of Spinal Disorders Case Presentation and Discussion	Gregory Arends, M.D. Gregory Arends, M.D.
	9:20 9:50	Endoscopic Transthoracic Discectomy and Sympathectomy Case Presentation and Discussion	Alan Villavicencio, M.D. Alan Villavicencio, M.D.
	10:00	Coffee and Danish Break	
	10:15 10:45	Operative and Non-operative Management of Patients with Spinal Trauma Case Presentation and Discussion	Lee Nelson, M.D. Lee Nelson, M.D.
	11:00 11:45	Pediatric and Adult Spinal Deformity: Principles of Treatment and Operative Management Case Presentation and Discussion	Alan Villavicencio, M.D. Alan Villavicencio, M.D.
	12:00	Lunch	
	1:00 1:45	CyberKnife Radiosurgery for Benign Spinal Tumors and Arteriovenous Malformations Case Presentation and Discussion	Dave Martin, M.D. Dave Martin, M.D.
	2:00 2:30	CyberKnife Radiosurgery for Malignant Spinal Tumors Case Presentation and Discussion	Dave Martin, M.D. Dave Martin, M.D.
	2:45	Coffee and Danish Break	
	3:00 3:45	Reconstructive Surgery for Spinal Metastases Case Presentation and Discussion	Alan Villavicencio, M.D. Alan Villavicencio, M.D.
	4:00 4:45	Minimally Invasive Pedicle Fixation versus Anterior Posterior Reconstruction for Degenerative Disc Disease and Instability Case Presentation and Discussion	Jeffrey Thramann, M.D. Jeffrey Thramann, M.D.
	5:00	Closing Remarks	Alan Villavicencio, M.D.
	5:05	Cocktails	
	5:30	Dinner	

This spot reserved for sponsor information

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.



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.



Dave Martin, M.D.
Dave Martin, M.D. specializes in treating tumors and AVMs of the spinal cord and spine. He graduated from the University of California at Davis Medical School and received residency training at the Brigham and Women's Hospital in Boston. He also completed stereotactic radiosurgery and image-guided neurosurgery fellowships in spine and spinal cord tumors at Stanford University.



Lee Nelson, M.D.
Dr. Nelson received his MD from the renowned 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 the M.D. Anderson Cancer Center.

HOTEL DISCOUNTS

Discounts at Hotel Boulderado for the Boulder Neurological Spinal Disorder Symposium:
Standard \$109
Double \$159
Suite \$229
Rooms must be reserved by 4/21/04

To reserve call 303-442-4344 or 800-433-4344 (fax 443 7035)

Saturday May 22, 2004 | Boulderado Hotel, Boulder, Colorado

Current Techniques in the Management of Spinal Disorders

HOW TO REGISTER: \$75 deposit for registration will be refunded in full upon checkin*
Web: www.bnasurg.com/reg

Mail: Send this card in and call 303-998-0004 with credit card information.

Or send this card in with a check to: Boulder Neurosurgical Associates
Boulder Community Hospital Medical Pavilion
1155 Alpine Avenue, Suite 320
Boulder, Colorado 80304

Name _____

Institution _____

Address _____

City _____ State _____ Zip Code _____

E-mail _____ Tel _____ Fax _____

Specialty _____

I WILL ATTEND: SEMINAR, COCKTAILS AND DINNER SEMINAR ONLY
REGISTRATION DEADLINE: MAY 8, 2004
*The cost of this course is covered in full by Boulder Neurosurgical Associates and course sponsors. The \$75 deposit reserves your seat at this seminar and will be refunded to participants the day of the event.