Comprehensive Spine Course

November 11 & 12, 2010
March 3 & 4, 2011

Register online at:
http://cmem.med.nyu.edu/spine

Post-Graduate Medical School
550 First Avenue, New York, NY 10016

NYU Langone Medical Center
Farkas Auditorium • New York, NY
NYU School of Medicine
Sponsored by the NYU Post-Graduate Medical School

NYU Hospital for Joint Diseases
Comprehensive Spine Course

PART I - THURSDAY, NOVEMBER 11, 2010
PART II - FRIDAY, NOVEMBER 12, 2010
PART III - THURSDAY, MARCH 3, 2011
PART IV - FRIDAY, MARCH 4, 2011

NYU Langone Medical Center
Farkas Auditorium • New York, NY
TARGET AUDIENCE

COURSE DESCRIPTION / STATEMENT OF NEED
The proper knowledge base is essential in providing the most accurate diagnosis and treatment of spinal disorders. The treatment of spinal pain varies amongst practitioners. Spine patient care can be improved by incorporating cutting edge knowledge of conservative, surgical, alternative, and rehabilitative treatments into the day-to-day practice. This four-part series is a comprehensive review of four stages of the spine care continuum: examination, evaluation and diagnosis; therapeutic interventions; spinal injections; surgical interventions. The sections of this course will focus on a comprehensive knowledge of the basic science of spinal disorders, improving the diagnostic and therapeutic accuracy, exploring therapeutic options that lead to common pitfalls in patient care and proper decision making in surgical referrals. The program will focus on the application of practical experience, and didactic knowledge to improve the practitioner’s knowledge base and diagnostic therapeutic accuracy. Discussion with the faculty through the case study sessions will allow the participant to discuss the details of decision making in spinal care. The course will be divided into four parts which will enable the participant to comprehensively explore the diversity of options available in the care of spinal disorders.

EDUCATIONAL OBJECTIVES
Part I: Examination, Evaluation & Diagnosis
- Describe the role of MRI, Electrodiagnosis and non-MRI Imaging in the evaluation of spinal disorders as well as evidence-based strategies for interpreting these and other diagnostic procedures
- Develop a systematic method for physical examination of the lumbar spine, and lower extremity as well as cervical spine and upper extremity
- Determine how to identify specific lesions responsible for patient’s chief complaint & functional impairment
- Create strategies to assess integrity and performance of involved tissues and structures
- Describe how to determine patient’s functional ability during daily occupational & recreational activities
- Develop diagnostic strategies for osteoporosis including when to order tests and which ones, as well as strategies for interpreting radiologists reports
- Describe how osteoporosis can affect patient function and strategies for treatment decisions using medication and/or surgery
- Identify signs and symptoms of lumbar disc herniation, spondylolisthesis and spinal stenosis

Part II: Therapeutic Intervention
- Use an evidence-based approach for selection of non-surgical therapeutic intervention for patients with spinal pain
- Devise strategies to best assess and treat patients with neck pain based on their symptoms, radiographic studies and physical findings
- Assess the goals of pharmacologic treat-ment in chronic pain
- Discuss the role of active physical therapy for low back disorders

Part III: Spinal & Peripheral Injections
- Base patient selection for spinal injections on an established risk/benefit ratio
- Discuss interventional pain management outcome measures
- Update process of diagnosis of cervical myelopathy and radiculopathy based on discussion of the role of electromyography
- Select injections based on clinical evidence as well as an understanding of the origin of the pain generator
- Describe the new surgical approaches to treating cervical DDD and create strategies for selecting the best approach for patients

Part IV: Surgical Intervention
- Describe the impact of new diagnostic and treatment techniques available in the area of pediatric scoliosis care
- Explain the evidence-based goals for surgical treatment in the treatment of adult scoliosis
- Decrease treatment failures and costs in conservative therapy and surgical therapy by incorporating best practice and best literature evidence into the daily practice
- Explain how to accomplish the same surgical objective as traditional, open surgery through a less traumatic approach (minimally invasive) that preserves the surrounding soft tissue

CME Information
Faculty
COURSE DIRECTOR
Gerard P. Varlotta, DO, FACSM
Clinical Associate Professor of Physical Medicine and Rehabilitation
Medical Director, NYU/HJD Musculoskeletal Outpatient Rehabilitation Network
NYU School of Medicine
New York, NY

COURSE CO-DIRECTOR
John A. Bendo, MD
Assistant Professor of Orthopaedic Surgery
NYU School of Medicine
Director of Spine Services-Clinical Affairs
NYU Hospital for Joint Diseases

SECTION DIRECTORS
Part I: Anthony Petrizzo, DO
Part II: Gerard P. Varlotta, DO
Part III: Christopher Gharibo, MD
Part IV: John A. Bendo, MD

GUEST FACULTY
Joseph Bonyai, MEd, CSCS
Empower Athletic Development
Eastchester, NY
Peter Duggan, DC
Duke Chiropractic
New York, NY
Scott Duke, DC, DACBSF
Duke Chiropractic
New York, NY
Ciaran O. Grant, DC
New York, NY
Antonio Valdevit, PhD
Assistant Professor
Stevens Institute of Technology
Hoboken, NJ

NYU School of Medicine/Hospital for Joint Diseases Faculty
Ludmilla Bronfin, MD
Assistant Professor of Neurology
Steven Calvino, DO
Assistant Professor of Anesthesiology and Rehabilitation Medicine
Dennis A. Cardone, DO
Associate Professor of Orthopaedic Surgery
Gina Ciavarra, MD
Assistant Professor of Radiology
Cristina Drafta, MD
Assistant Professor of Neurology
Antony K. Freampong-Boadu, MD
Assistant Professor of Neurosurgery
Director, Spinal Neurosurgery
Residency Program Director
Christopher Gharibo, MD
Assistant Professor of Anesthesiology
NYU School of Medicine
Medical Director of Pain Medicine
NYU Hospital for Joint Diseases
Brian D. Golden, MD
Clinical Assistant Professor of Medicine
Jeffrey A. Goldstein, MD
Clinical Associate Professor of Orthopaedic Surgery
NYU School of Medicine
Director of Spine Service-Education
NYU Hospital for Joint Diseases
Marianne T. Guschwan, MD
Clinical Assistant Professor of Psychiatry

Stephen Honig, MD
Clinical Associate Professor of Medicine
NYU School of Medicine
Director, NYU Hospital for Joint Diseases
Osteoporosis Center

Yong H. Kim, MD
Clinical Assistant Professor of Orthopaedic Surgery

Kiril Kiprovski, MD
Assistant Professor of Neurology

Jeffrey Klein, MD
Instructor of Orthopaedic Surgery

Gregory Kozikowski, MD
Assistant Professor of Anesthesiology

Virginie LaFage, PhD
Director of Spinal Biomechanics Laboratory

Todd R. Lefkowitz, DO
Clinical Instructor of Rehabilitation Medicine

Angela M. Lis, PhD
Associate Clinical Director OIOC

Baron S. Lonner, MD
Clinical Professor of Orthopaedic Surgery
Director of NYU Hospital for Joint Diseases
Scoliosis and Spinal Deformity Center

Michael B. Mechin, MD
Assistant Professor of Radiology

Alex Moroz, MD
Assistant Professor of Physical Medicine and Rehabilitation
NYU School of Medicine
Director of Musculoskeletal Program
NYU Langone Medical Center

Ronald Moskovitch, MD
Assistant Professor of Orthopaedic Surgery

Michael T. Murray, MD
Assistant Professor of Orthopaedic Surgery

William Oswald, DPT, Cert. MD
Clinical Specialist of Physical Therapy

Mia R. Palazzo, PT, DPT, Cert. MD
Supervisor of Physical Therapy

Jeffrey Perry, DO
Clinical Instructor in Orthopaedic Surgery and Rehabilitation Medicine
NYU School of Medicine
Director, Osteopathic Physical Medicine and Rehabilitation Residency Program
New York College for Osteopathic Medicine/ Nassau University Medical Center
East Meadow, NY

Anthony Petrizzo, DO
Clinical Assistant Professor of Orthopaedic Surgery

Themistocles S. Protosotsalis, MD
Assistant Professor of Orthopaedic Surgery

Juan C. Robles, MD
Clinical Instructor of Rehabilitation Medicine

Leon D. Rybak, MD
Assistant Professor of Radiology
NYU School of Medicine
Acting Section Chief, MSK Radiology
NYU Hospital for Joint Diseases

Frank Schwarb, MD
Clinical Associate Professor of Orthopaedic Surgery
Director of NYU Hospital for Joint Diseases
Spinal Deformity Service

Matthew Smith, MD
Clinical Assistant Professor of Psychiatry

Michael L. Smith, MD
Assistant Professor of Neurosurgery

Jeffrey M. Spivak, MD
Assistant Professor of Orthopaedic Surgery
NYU School of Medicine
Director, NYU Hospital for Joint Diseases
Spine Center

Jonathan Steiber, MD
Assistant Professor of Orthopaedic Surgery
NYU School of Medicine is located in a predominantly residential area on the east side of Manhattan.

PHOTO IDENTIFICATION IS REQUIRED TO ENTER THE MEDICAL CENTER.

PLEASE NOTE:
- Online Registration Preferred
- Telephone registration is not accepted.
- Applications will be accepted in order of their receipt.

Registration Office:
NYU Post-Graduate Medical School
Murray Hill Station, P.O. Box 1835
New York, NY 10016
Phone: (212) 263-5295
Fax: (212) 263-5293
Visit our website at http://cme.med.nyu.edu/spine to submit online registration.

ACCREDITATION STATEMENT
The NYU Post-Graduate Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation Statement
The NYU Post-Graduate Medical School designates this educational activity for a maximum of 29.50 AMA PRA Category 1 Credits™.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

Part I: Examination, Evaluation & Diagnosis, 7.25 AMA PRA Credits
Part II: Therapeutic Intervention, 7.75 AMA PRA Credits
Part III: Spine & Peripheral Injections, 7.00 AMA PRA Credits
Part IV: Surgical Intervention, 7.50 AMA PRA Credits

The NYU Hospital for Joint Diseases is a New York State Education Department approved provider for physical therapy continuing education. The NYU Hospital for Joint Diseases designates this activity for a maximum of 36.40 Contact Hours (11/11: 9.2, 11/12: 9.5, 3/3: 8.6, 3/4: 9.1). The New York Chiropractic College is a New York State Education Department approved provider for chiropractic continuing education. The New York Chiropractic College designates this activity for a maximum of 29.50 CE Credit Hours. (11/11-11/12: 15 credits; 3/3-3/4: 14.5 credits). Only New York State licensed Chiropractors are eligible for CE Credit. A fee of $27.50 per weekend will be assessed upon request of CE credits by the NYCC.

DISCLOSURE STATEMENT
The NYU Post-Graduate Medical School adheres to the ACCME Essential Areas and policies, including the Standards for Commercial Support, regarding industry support of continuing medical education.

In order to resolve any identified Conflicts of Interest, disclosure information is provided during the planning process to ensure resolution of any identified conflicts.

Disclosure of faculty and commercial relationships as well as the discussion of unlabeled or unapproved use of any drug, device or procedure by the faculty will be fully noted at the meeting.

PARKING
There is street parking on 29th and 30th Streets between First and Second Avenues as well as at the Schwartz Health Care Center garage on First Avenue and 30th Street.

For more information visit our website at http://www.med.nyu.edu/contact(directions/parking.html

HOTEL ACCOMMODATIONS
Rooms are in very heavy demand in New York City; we urge you to make your reservations early. You may obtain a list of hotels located near NYU School of Medicine by visiting our website, http://cme.med.nyu.edu/travel/hotels-lodging
THURSDAY, NOVEMBER 11, 2010

Part I: Examination, Evaluation & Diagnosis

SECTION DIRECTOR: Anthony Petrizzi, DO

7:15 Registration and Continental Breakfast
8:00 Welcome & Introduction: Gerard P. Varlotta, DO

Basic Science & Spinal Evaluation

MODERATOR: Anthony Petrizzi, DO

8:10 Basic Science of the Degenerative Spine - Anthony Petrizzi, DO
8:30 Differential Diagnosis of Cervical & Lumbar Spine Disorders - Michael T. Murray, MD
8:50 Examination & Evaluation of Neck Pain - Scott Duke, DC
9:05 Examination & Evaluation of Lower Back Pain - Jeffrey Perry, DO
9:20 Examination & Evaluation of Radicalpathy - Kiril Kiprovski, MD
9:35 COFFEE BREAK

MODERATOR: Gerard P. Varlotta, DO

10:00 Biomechanics of the Spine: Clinical Relevance - Antonio Valdevit, PhD
10:15 Posture, Balance in Spinal Disorders - Virginia Leaflage, PhD
10:30 Chiropractic Assessment of Patients with Spinal Pain - Scott Duke, DC, DACBSF
10:50 Adolescent Scoliosis: Clinical & Radiographic Assessment - Baron S. Lonner, MD
11:15 Adult Scoliosis: Clinical & Radiographic Assessment - Frank Schwab, MD
11:40 Translating Research into a Clinical Practice - Angela M. Lis, PhD
12:00 QUESTIONS & ANSWERS - Faculty
12:15 LUNCH

Spinal Imaging

MODERATOR: Leon D. Rybak, MD

1:35 MRI Evaluation of Cervical & Lumbar Spine Disorders: What to look for - Michael B. Mechlín, MD
1:55 Clinical Findings & Imaging Correlation - Leon D. Rybak, MD and Gerard P. Varlotta, DO
2:15 Case Discussion & Interpretation of MRI Scans - Gina Ciavarra, MD; Michael B. Mechlín, MD and Leon D. Rybak, MD
3:15 COFFEE BREAK

Medical & Neurological Assessment

MODERATOR: Jeffrey Perry, DO

3:40 Electrodagnostic Testing in Spinal Disorders: When to order & how to interpret the report - Cristina Drafta, MD
4:00 Interventional Diagnostic Procedures: Nerve Blocks & Discography - Steven Floragan, MD
4:15 Diagnosis of Osteopenia & Osteoporosis - Stephen Honig, MD
4:35 Natural History, Signs & Symptoms: Rheumatic Diseases & Myofascial Pain - Brian D. Golden, MD
4:55 Neurological Diagnoses that Mimic Spinal Disorders - Ludmilla Borend, MD
5:15 QUESTIONS & ANSWERS - Faculty
5:30 ADJOURN

FRIDAY, NOVEMBER 12, 2010

Part II: Therapeutic Intervention

SECTION DIRECTOR: Gerard P. Varlotta, DO

7:00 Registration and Continental Breakfast
7:45 Welcome & Introduction: Steven Floragan, MD and Professor and Clinical Chairman of Rehabilitation Medicine

Pharmacological Management

MODERATOR: Gerard P. Varlotta, DO

8:00 Therapeutic Approach to Spinal Disorders - Gerard P. Varlotta, DO
8:15 Pharmacological Management of Spinal Pain: Narcotic - Christopher Gharbi, MD
8:35 Pharmacological Management of Spinal Pain: Non-Narcotic - Juan C. Robles, MD
8:55 Preventing Addition & Management of the Addicted Patient - Marianne T. Guschwan, MD
9:15 Pharmacological Management of Osteoporosis - Stephen Honig, MD
9:35 QUESTIONS & DISCUSSION - Faculty
9:55 COFFEE BREAK

Alternative Management & Functional Assessment

MODERATOR: Juan C. Robles, MD

10:10 Non-operative Treatment of Cervical Myelopathy & Radiculopathy - Todd R. Lebowitz, DO
10:30 Alternative Medicine Treatment in Spinal Disorders: Application of Science to the Art - Alex Moroz, MD
10:50 Psychosocial Management of the Patient with Chronic Lower Back Pain - Matthew Smith, PhD
11:10 Functional Restoration, Work Hardening & Return to Work Programs - Angela M. Lis, PhD
11:30 Assessment of Disability - Juan C. Robles, MD
11:45 QUESTIONS & ANSWERS - Faculty
12:00 LUNCH

Therapeutic Application

MODERATOR: Gerard P. Varlotta, DO

1:00 Physical Therapy for Cervical Spine Disorders - William Oswald, DPT, Cert, MDT
1:20 Physical Therapy for Lumbar Spine Disorders - Mia R. Palazzo, PT, DPT, Cert, MDT
1:40 Chiropractic Therapy for Spinal Disorders: Principles & Application of Manipulation - Ciaran O. Grant, DO
2:00 Chiropractic Therapy for Spinal Disorders: Principles & Application of Active Release Therapy - Peter Duggan, DC
2:20 Physical Training of Athletes with Spinal Disorders - Joseph Boyen, MD, CCS
3:10 Return to Sports Participation with Spinal Disorders - Joseph Boyen, MD, CCS
3:30 COFFEE BREAK

CASE DISCUSSIONS

MODERATOR: Gerard P. Varlotta, DO

PRESENTER: Juan C. Robles, MD

3:45 Cervical Spine Disorders - Faculty
4:15 Lumbar Spine Disorders - Faculty
4:45 Return to Sports - Faculty
5:15 ADJOURN

Program Schedule
THURSDAY, MARCH 3, 2011

Part III: Therapeutic Intervention: Spinal & Peripheral Injections

SECTION DIRECTOR: Christopher Gharibo, MD

7:00 Registration and Continental Breakfast
7:45 Welcome & Introduction: Thomas J.J. Blank, MD, PhD
Professor and Chairman of Anesthesiology

MODERATOR: Christopher Gharibo, MD

8:00 How to Incorporate Injections into a Multidisciplinary Plan of Care - Gerard P. Varlotta, DO
8:20 Diagnostic & Therapeutic Value of Spinal Injections - Juan C. Robles, MD
8:40 Complication of Spinal Injections: Is there a Real Concern? - Christopher Gharibo, MD
9:00 Radiation Safety - Christopher Gharibo, MD
9:15 QUESTIONS & DISCUSSION - Faculty
9:30 COFFEE BREAK
9:45 Trigger Point Injections: Indications & Technique - Jeffrey Perry, DO
10:05 Sacroiliac Injections: Indications & Technique - Juan C. Robles, MD
10:20 Peripheral Joint Injections: Indications & Technique - Dennis A. Cardone, DO
10:40 Botulinum Toxin Injections for Myofascial Pain - Cristina Drafta, MD
11:00 Radiation Safety - Christopher Gharibo, MD
11:15 QUESTIONS & DISCUSSIONS - Faculty
11:30 COFFEE BREAK
11:40 Epidural Steroid Injections: Translaminar vs. Transforaminal: Does the Approach Matter? - Gregory Kozikowski, MD
11:55 Intra-articular Facet Injections Including Facet Cyst Injections - Gerard P. Varlotta, DO
12:00 QUESTIONS & DISCUSSIONS - Faculty
12:00 LUNCH

FRIDAY, MARCH 4, 2011

Part IV: Surgical Intervention

SECTION DIRECTOR: John A. Bendo, MD

7:00 Registration and Continental Breakfast
7:45 Welcome & Introduction: Joseph Zuckermand, MD
Professor and Chairman of Orthopaedic Surgery

MODERATOR: John A. Bendo, MD

8:00 Indications for Surgical Management of Spinal Disorders - John A. Bendo, MD
8:20 Conventional, Microscopic, Endoscopic Surgical Treatment of Disc Herniations: Help or Hype? What are the Indications & are the Results Equal? - Michael L. Smith, MD
8:40 Overview of Motion Preservation Surgery: Minimally Invasive Techniques & Total Disc Replacement - Anthony Petrizzo, DO
8:50 Surgical Treatment of Spinal Deformity MODERATOR: Jeffrey M. Spivak, MD
9:30 Surgical Treatment of Degenerative Spondylothesis: Decompression, Fusion or Both - Jeffrey M. Spivak, MD
9:50 Lumbar Total Disc Replacement Surgery - John A. Bendo, MD
10:05 QUESTIONS & CASE DISCUSSIONS - Faculty
10:10 COFFEE BREAK

Surgical Treatment of Spinal Deformity MODERATOR: Frank Schwab, MD
10:30 Outcomes of Adult Deformity Surgery - Virginie LaFage, PhD
10:50 Operative Management of Pediatric Deformities - Baron S. Lonner, MD
11:10 Surgical Treatment of Adult Degenerative Deformities - Frank Schwab, MD
11:30 QUESTIONS & CASE DISCUSSIONS - Faculty
12:00 LUNCH

Cervical Spine Disorders MODERATORS: Jeffrey A. Goldstein, MD
 Michael L. Smith, MD
1:00 Surgical Decision Making in Differentiating Cervical Radiculopathy from Upper Extremity Peripheral Nerve Compression - Themistocles S. Protopsaltis, MD
1:20 Cervical Disc Herniations: Does the Anterior or Posterior Approach make a Difference in Outcome - Jonathan Steiber, MD
1:40 Operative Treatment of Cervical Spondylosis & OPLL - John A. Bendo, MD
2:00 Surgical Management of the Rheumatoid Spine - Ronald Moskovich, MD
2:20 Cervical Total Disc Replacement - Jeffrey A. Goldstein, MD
2:40 QUESTIONS & CASE DISCUSSIONS - Faculty
3:00 COFFEE BREAK

Traumatic & Atraumatic Spinal Surgery MODERATOR: Themistocles S. Protopsaltis, MD
3:20 Traumatic Spinal Fracture Surgery - Themistocles S. Protopsaltis, MD
3:40 Surgical Interventions in Osteoporosis & the Compression Fracture - Michael T. Murray, MD
4:00 Surgical Management of Metastatic & Spinal Cord Tumors - Anthony K. Frempong-Boadu, MD
4:20 QUESTIONS & CASE DISCUSSIONS - Faculty
5:00 ADJOURN
Comprehensive Spine Course #807
Register online at: http://cme.med.nyu.edu/spine

I AM REGISTERING FOR:

☑ Parts I: Examination, Evaluation & Diagnosis, November 11, 2010
☑ Parts II: Therapeutic Intervention, November 12, 2010
☑ Parts IV: Surgical Intervention, March 4, 2011

PLEASE PRINT CLEARLY

Name ____________________________________________
Address ___________________________________________
City ___________________ State ___________ Zip _________
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Email ____________________________________________
Specialty __________________________________________
Degree ___________________________________________

On-site registrants will incur an additional $20 charge and will receive a receipt by email in 1-2 weeks.

COURSE FEES: Full Course (Parts I-IV): $600; Per Part: $200
Chiropractors and Physical Therapists: Please use CME Code PTCHIRO when registering to receive 25% off
Residents & Fellows: Please use CME Code RESIDENT when registering to receive 50% off

REFUND POLICY: An administrative charge of 30% of your tuition payment will be assessed for cancellations prior to October 11, 2010 and February 3, 2011. Cancellations must be in writing and postmarked no later than the above date (faxes and emails are not accepted). Cancellations will not be accepted after the above date.

COURSE CANCELLATION POLICY: In the unusual circumstance these courses are cancelled, two weeks notice will be given and tuition will be refunded in full. The NYU Post-Graduate Medical School is not responsible for any airfare, hotel or other costs incurred.

METHODS OF PAYMENT: (Cash and phone registration are not accepted.) If faxing, do not mail or refax, this will only result in a duplicate charge to your account.

☐ Check in U.S. Dollars only $ ____________
☐ Credit Card Payment (see below)
☐ International Postal Money Order
   (Foreign registrants, including those from Canada, must pay by International Postal Money Order or credit card): $ _______________

PAYMENT BY CREDIT CARD:
Credit card payments may be faxed to (212) 263-5293.
Amount to be charged $____________
Bill To: [ ] Visa [ ] MasterCard [ ] American Express

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Expiration Date ____________________________
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Signature ______________________________________

MAKE CHECK PAYABLE TO: NYU Post-Graduate Medical School
SEND TO: Registration Office - NYU Post-Graduate Medical School
P.O. Box 1855, Murray Hill Station, New York, N.Y. 10016

Special needs or requests: ____________________________________________

Required for CME credit

After November 9 and March 1 only on-site registration available.