



Neuro Orthopaedic Institute presents



## Clinical Applications: Upper limb, thorax, neck

This course has a strong problem solving and 'hands on' focus and draws knowledge from the NOI international faculty. The science of neurodynamics is updated in relation to upper and lower limb disorders. Neural mobilization techniques and neural interface techniques such as motor control strategies are taught. Skilled handling of upper body neural structures is taught via clinical syndromes such as carpal tunnel syndrome, tennis elbow and thoracic neural disorders including physical disorders of the sympathetic trunk. Cervical nerve root disorders are a particular focus of the course.

**Prerequisite** 'Mobilization of the Nervous System' (Level 1 NOI course)

**Complementary course** 'Clinical Applications: Lower limb and lumbar spine' *Skilled handling of lower limb nerves and roots is taught via common clinical syndromes such as nerve root disorders, plantar fasciitis, patello femoral problems, lumbar nerve root problems and recalcitrant groin pain.*

**Follow on course** 'The Sensitive Nervous System' (Level 3 NOI course)

**CEUs** This course is approved for CEUs by most state PT Associations in USA. *All NOI courses include patient education as an evidence-based treatment tool, and are supported by quality workbooks, graphics and post course web involvement.*

### GOAL STATEMENT (AIMS)

The aim of the clinical applications course is to enhance the clinician's ability to manage common peripheral neurogenic disorders through appropriate techniques incorporating patient education, manual therapy, therapeutic exercise, and home programs. Course content will be based on best evidence from the basic sciences and clinical trials. Clinical reasoning strategies and case studies will be presented to enable participants to apply course content to the management of an individual patient.

### LEARNING OBJECTIVES

**Upon completion of this course, the participant should be able to:**

1. Describe the pattern of subjective and physical examination features thought to be indicative of a peripheral neurogenic disorder.
2. Discuss the neurophysiological pain mechanisms responsible for the clinical manifestations of a peripheral neurogenic disorder, and be able to express these mechanisms in language appropriate for patient education.
3. Describe the normal interrelationship between the physiology and biomechanics of the nervous system and its associated connective tissues, and discuss how alterations in this interrelationship contribute to the development and maintenance of peripheral neurogenic disorders.
4. Demonstrate the various examination techniques presented in this course for the detection of peripheral neurogenic disorders (eg. Neurodynamic tests, palpation, examination of relevant neural container tissues).
5. Demonstrate the various techniques presented in this course for the management of peripheral neurogenic disorders (eg. patient education, neural tissue gliding techniques, selected techniques to address relevant impairments in the neural container tissues).
6. Integrate the concepts and skills from the aforementioned objectives into a clinical reasoning framework that permits an individualized approach to the examination and management of each patient presenting with a peripheral neurogenic disorder.
7. Apply this clinical reasoning framework and individualized approach to patient case examples presented during the course.

**November 12&13, 2011, Chicago, IL, USA**

with Bob Johnson, PT, MS, OCS

**Cost \$425 usd**

**Registration is open to registered Physical Therapist, Occupational Therapist, and Physicians (MD or DO).**

### TO REGISTER OR FOR MORE INFO

**ONLINE:** submit via email: heatheraori@gmail.com

**PHONE:** 630-321-0055

**FAX:** Please fax registration forms to 630-321-0088

**Full name:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Daytime: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Payment by check 'OMPT'**

Amount \$ \_\_\_\_\_ Check No.: \_\_\_\_\_

Post to: 908 N. Elm Street suite 109 Hinsdale, IL 60521

**Payment by credit card**

Amount \$ \_\_\_\_\_ MC VISA Amex

Card# \_\_\_\_\_

Expiration Date: \_\_\_\_ - \_\_\_\_

Cardholders signature: \_\_\_\_\_

**Participant Cancellation:** If written notification of cancellation is received to ISPI prior to the course start date, the participant may receive a letter of credit for the full amount, substitute someone in their place, or transfer to another course within 12 months of the cancellation without penalty. No monies will be refunded for cancellations. If the participant registered using a letter of credit, or if the participant has been transferred from another course, and the participant cancels, no amount can be transferred from another course, and no other letter of credit will be issued. All credits are forfeited. No money or credit will be issued for 'no shows' at the course, nor for cancellation any time after the course start date.

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## COURSE PROGRAM

### Day 1 - 8.00am to 4.30pm

8:00 - 8:15 Introduction and welcome  
8:15 - 10:00 Clinical reasoning and neuropathology in the upper quadrant  
*10:00 - 10:15 Break*  
10:15 - 11:15 Nerve palpation and the neural container  
11:15 - 12:00 Treatment principles in neurodynamics  
*12:00 - 1:00 Lunch*  
1:00 - 2:30 Clinical Application: The cervical spine  
2:30 - 3:30 Clinical Application: The thorax and rib cage  
*3:30 - 3:45 Break*  
3:45 - 4:30 Clinical Application: Posture, muscle control and the shoulder complex  
4:30 Class ends

## COURSE PROGRAM

### Day 2 - 8.00am to 4.45pm

8:00 - 8:15 Questions and review  
8:15 - 9:45 Clinical Application: The shoulder joint  
*9:45 - 10:00 Break*  
10:00 - 11:00 Clinical Application: The elbow joint  
11:00 - 12:00 Precautions and contraindications  
*12:00 - 1:00 Lunch*  
1:00 - 2:00 Clinical Application: The wrist and hand  
2:00 - 2:45 Education: Explaining nerve injuries to patients  
*2:45 - 3:00 Break*  
3:00 - 3:30 Case studies  
3:30 - 4:30 Introduction to central pain states: The whiplash patient  
4:30 - 4:45 Questions, review and comments  
*All course programs may change slightly.*

## NOI INTERNATIONAL FACULTY

NOI faculty members are hand selected via a thorough protocol and undergo progressive peer and expert training. All faculty members travel widely to meet their teaching commitments, have postgraduate manual therapy educations, and are members of national associations and of the International Association for the Study of Pain (IASP).

**Neuro Orthopaedic Institute Australasia** is an independent, international group of physiotherapists dedicated to quality education and resource distribution. Visit our award winning website [www.noigroup.com](http://www.noigroup.com) for course descriptions and worldwide schedules, books, reviews, products and discussions.  
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## COURSE HOSTING

You, or your organization, can coordinate and host a NOI course in either an open or inhouse format. For more information, email [info@noigroup.com](mailto:info@noigroup.com) or in USA, contact our NOI agents (see below).