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NNI EMG-AFT-Neuromuscular Ultrasound Workshop

Interactive Teaching Course with Live Demonstrations and Hands-On Tutorials

26 – 29 November 2015

TTSH THEATRETTE, LEVEL 1, SINGAPORE

WORKSHOP HIGHLIGHTS

A) Nerve Conduction Studies

- Common Nerves
- Uncommon Nerves
- **Paediatric NCS (NEW)**
- Repetitive Nerve Stimulation
- Blink Reflex
- Single-Fiber Electromyography (SFEMG)
- Transcranial Magnetic Stimulation
- EMG signal and Motor Unit Analysis

B) Clinical Correlation

- Entrapment Neuropathies
- Brachial Plexopathy
- Approach to Numb Patient
- Approach to Weak Patient
- Motor Neuron Disease
- Peripheral Neuropathy
- Radiculopathy
- Myopathy

C) Autonomic Function Battery

- Sympathetic
- Parasympathetic Tests

D) Neuromuscular Ultrasound

- Carpal Tunnel Syndrome
- Ulnar Neuropathy
- **Brachial Plexopathy, Diaphragm (NEW)**
- **Muscle Ultrasound (NEW)**

E) Introduction to Muscle and Nerve Pathology (NEW)

- Illustrative biopsy cases will be presented to enhance the experience

ORGANISER



National
Neuroscience Institute
SingHealth

EVENT SECRETARIAT

NEUROSCIENCE
Academic Clinical Program



National
Neuroscience Institute



SingHealth
TRIPLE DRILLS
ACADEMIC MEDICAL CENTRE

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WELCOME MESSAGE

Dear Friends and Colleagues,

It is my immense pleasure to announce that the 5th NNI EMG-AFT-Neuromuscular Ultrasound Workshop will be held from 26 - 29 November 2015 in Singapore. We are committed to provide a stimulating learning experience in the field of electrodiagnosis, ultrasound and neuropathology in neuromuscular diseases.

Workshop Description

This is a teaching workshop that focuses on the principles and practice of electrodiagnosis, and the interpretation of autonomic function tests. The interactive sessions will give participants ample opportunities to connect real time with the tutors and patients. There is a focus on clinical correlation by applying different neurophysiological tests in live demonstrations with patients and using videos.

In this edition, we intend to enhance the learning experience of neuromuscular diseases by introducing new topics in muscle and nerve ultrasound and primer to neuropathology. The course is designed for the practicing adult and paediatric neurologists, neuromuscular specialists, physicians, neurology trainees and technologists interested in clinical EMG, AFT, ultrasound and neuromuscular diseases.

The course syllabus will be provided as a printed copy and participants will be given access to online reading materials.

Learning Objectives

At the end of the workshop, the attendees should be able to:

- 1) Develop an understanding of standard electrodiagnostic tests and their application based on clinical symptomatology.
- 2) Learn the techniques, identify technical pitfalls associated with NCS and needle EMG, and understand the strategies to minimise the technical artifacts.
- 3) Recognise the morphology of the NCS waveforms in different nerves and needle EMG signal with interpretation in normal and disease patterns.
- 4) Learn the basic methodology and interpretation of autonomic function battery.
- 5) Recognise the use and findings in ultrasound as an adjunct tool to diagnose neuromuscular diseases.
- 6) Understand the approach to muscle and nerve biopsy, and identify normal and disease patterns.

We have invited faculty members from across the globe and experts in the respective fields to enhance your learning experience. I hope you will find this workshop useful to your practice and look forward to your participation.

Dr Kamal K. Verma

Chairman, Organising Committee

5th NNI EMG-AFT-Neuromuscular Ultrasound Workshop

GUEST FACULTY

Nens VAN ALFEN

Department of Neurology
and Clinical Neurophysiology
Radboud University Medical Center
The Netherlands

Sigrid PILLEN

Sleep Medicine Centre
Kempenhaghe
The Netherlands

Sanjeev NANDEKAR

Natus Biomedical Incorporated
U.S.A

LOCAL FACULTY

Josiah CHAI

Department of Neurology
National Neuroscience Institute

NG Peng Soon

Department of Neurology
National Neuroscience Institute

Terrence THOMAS

Department of Paediatrics, Neurology Service
KK Women's and Children's Hospital

Wendy LIEW

Department of Paediatrics, Neurology Service
KK Women's and Children's Hospital

Kalpana PRASAD

Department of Neurology
National Neuroscience Institute

Kamal V. VERMA

Department of Neurology
National Neuroscience Institute

LO Yew Long

Department of Neurology
National Neuroscience Institute

T. UMAPATHI

Department of Neurology
National Neuroscience Institute

PROGRAMME

DAY 1 – 26 NOVEMBER 2015, THURSDAY

TIME	TOPIC / ACTIVITY	SPEAKER
0730 - 0825	REGISTRATION	
0830 - 0845	Welcome Address	Kamal Verma
0845 - 1000	Autonomic Function Test (AFT) Demonstration	T. Umapathi
1000 - 1020	TEA BREAK	
1020 - 1200	Hands-On Session 1 (AFT)	All
1200 - 1240	Nerve Conduction Studies (NCS) – Electromyography (EMG) Instrumentation	Sanjeev Nandedkar
1240 - 1315	Pitfalls of NCS	Kamal Verma
1315 - 1400	LUNCH	
1400 - 1500	NCS – Common and Uncommon Nerves	Ng Peng Soon
1500 - 1540	NCS – Basics of Abnormal Patterns	T. Umapathi
1540 - 1600	TEA BREAK	
1600 - 1730	Hands-On Session 2 (NCS)	All

DAY 2 – 27 NOVEMBER 2015, FRIDAY

TIME	TOPIC / ACTIVITY	SPEAKER
0800 - 0855	REGISTRATION	
0900 - 1015	Common Entrapment Neuropathies	Kamal Verma, Kalpana Prasad
1015 - 1030	TEA BREAK	
1030 - 1145	Approach to Numb Patient	T. Umapathi
1145 - 1300	Approach to Weak Patient	Josiah Chai
1300 - 1400	LUNCH	
1400 - 1445	Brachial Plexus/Radiculopathy	T. Umapathi
1445 - 1600	Hands-On Session 3 (Weak and Numb Patient)	All
1600 - 1620	TEA BREAK	
1620 - 1730	EMG Signal and Motor Unit Potential (MUP) Analysis	Sanjeev Nandedkar

WHO CAN ATTEND

- Neurologists
- EMG, AFT and Ultrasound Technologists
- General Physicians
- Hand Surgeons
- Neurology Trainees
- Orthopaedic Trainees
- Orthopaedic Surgeons
- Paediatricians
- Paediatric Neurologists
- Rehabilitation Physicians
- Sports Physicians

DAY 3 – 28 NOVEMBER 2015, SATURDAY

TIME	TOPIC / ACTIVITY	SPEAKER
0700 – 0755	REGISTRATION	
0800 – 0830	Repetitive Nerve Stimulation (RNS)	Kalpana Prasad
0830 – 0930	Single-Fiber Electromyography (SFEMG)	Nens van Alfen
0930 – 1020	Transcranial Magnetic Stimulation (TMS)	Lo Yew Long
1020 – 1040	TEA BREAK	
1040 – 1145	Paediatric NCS	Wendy Liew, Terrence Thomas
1145 – 1300	Hands-On Session 4 (RNS, SFEMG, BLINK REFLEX, MUP Analysis)	All
1300 – 1400	LUNCH	
1400 – 1500	Basic Ultrasound (US) – Common Nerves	Kamal Verma
1500 – 1600	Advanced US – Uncommon Nerves, Brachial Plexus, Diaphragm	Nens van Alfen
1600 – 1615	TEA BREAK	
1615 – 1730	Hands-On Session 5 (US)	All
1830 – 2000	SOCIAL PROGRAMME	

DAY 4 – 29 NOVEMBER 2015, SUNDAY

TIME	TOPIC / ACTIVITY	SPEAKER
0700 - 0755	REGISTRATION	
0800 - 0830	EMG Quiz/Post Test	Kalpana Prasad
0830 - 0930	Muscle US	Sigrid Pillen
0930 - 1000	Muscle US Demonstration	Sigrid Pillen
1000 - 1020	TEA BREAK	
1020 - 1100	Nerve Biopsy (Normal and Pathology)	T. Umapathi
1100 - 1140	Muscle Biopsy (Normal and Pathology)	Josiah Chai, Kalpana Prasad
1140 - 1300	6 Illustrative Cases	All

**Programme subject to changes without prior notice.*

ENQUIRY AND SECRETARIAT

5th NNI EMG-AFT-Neuromuscular Ultrasound Workshop 2015 Secretariat

National Neuroscience Institute

11 Jalan Tan Tock Seng, Singapore 308433

Tel: (65) 6357 7163 / (65) 6357 7640 Fax: (65) 6256 4755

Email : nni_secretariat@nni.com.sg

Website : www.nni.com.sg

IMPORTANT INFORMATION

CONFIRMATION OF REGISTRATION

Confirmation of registration will only be issued upon the receipt of a completed Registration Form accompanied with the relevant supporting documents and full payment of the registration fees. Please bring this confirmation to the Registration Desk at the Workshop as proof of your registration.

CANCELLATION AND REFUND POLICY

Notification of cancellation and request for refund must be sent in writing to the NNI Secretariat. Registration fees are non-refundable.

LETTER OF INVITATION

Upon request, the Organiser will issue a Letter of Invitation. The sole purpose of the letter is to facilitate the applicant's travel and visa entry arrangements. The invitation is not a commitment from the Organiser to provide financial assistance to any applicant or their accompanying persons. Expenses incurred are the sole responsibility of the applicant.

PHOTOGRAPHY & ELECTRONIC RECORDING RESTRICTIONS

Photography, video filming, tape recording and all other forms of recording are prohibited during the lectures and on the exhibition floor. Such recording is permitted only with consent from the Organising Committee.

LIABILITY

The Organising Committee is not liable for any personal accidents or loss/damage of private properties of registered participants during the conference. Participants should make their own arrangements with respect to personal insurance.

DISCLAIMER

Whilst every attempt will be made to ensure that all aspects of the course mentioned in the final announcement will take place as scheduled, the Organiser reserves the right to make last minute changes without notice should the need arise.

HOTEL ACCOMMODATION & RATES

The NNI Secretariat has secured special room rates for your stay in Singapore. Please contact the hotel directly for your

room booking, quoting "5th NNI EMG-AFT-Neuromuscular Ultrasound Workshop". To confirm your reservation, please provide your credit card and flight details. All guests are required to settle their hotel bill and transaction directly with the hotel prior to departure. All rates are per room per night, and subject to service charge and prevailing government taxes:

OASIA HOTEL SINGAPORE

8 Sinaran Drive, Singapore 307470
Tel: (+65) 6664 0325
E-mail: warrenelliot@fareast.com.sg
Website: <http://www.stayfareast.com/en/hotels/oasia-hotel-singapore.aspx>
Distance: 5-min walking distance to TTSH
Room Rates: Deluxe Room (single/double): S\$225++/S\$250++ per room per night inclusive of breakfast and internet
Club Room (single/double): S\$280++/S\$310++ per room per night inclusive of breakfast and internet

DAYS HOTEL SINGAPORE AT ZHONGSHAN PARK

1 Jalan Rajah, Singapore 329133
Tel: (+65) 6802 6868
Email: fei.wong@ramada-dayshotelssingapore.com
Website: <http://www.dayshotelsingapore.com/>
Distance: 10-min walking distance to TTSH
Room Rates:
Days City View: SGD 158++ per room per night inclusive of breakfast, and internet
Days Park View: SGD 178++ per room per night inclusive of breakfast, and internet

RAMADA SINGAPORE AT ZHONGSHAN PARK

16 Ah Hood Rd, 329982
Tel: (+65) 6808 6888
Email: fei.wong@ramada-dayshotelssingapore.com
Website: <http://www.ramadasingapore.com/>
Room Rates:
Ramada City View: SGD 188++ per room per night inclusive of breakfast, and internet
Ramada Park View: SGD 218++ per room per night inclusive of breakfast, and internet

REGISTRATION CATEGORY

(Amount payable in Singapore Dollars and inclusive of GST)

REGISTRATION CATEGORY	EARLY REGISTRATION Registration AND Payment must be made before 16 OCTOBER 2015	NORMAL REGISTRATION Registration AND Payment received after 13 NOVEMBER 2015 will be considered as On-Site Registration
Doctor	S\$500.00	S\$550.00
Trainee	S\$250.00	S\$300.00
Technician	S\$200.00	S\$250.00

- Note:
- Senior Consultants, Consultants, Associate Consultants and Researchers are classified as Doctor. Others will be considered as Trainee.
 - This Workshop is for healthcare professionals only.

REGISTRATION & PAYMENT

PLEASE WRITE CLEARLY and complete the form in **BLOCK** letters and return the completed form with payment to:

5th NNI EMG-AFT-Neuromuscular Ultrasound Workshop 2015 Secretariat

National Neuroscience Institute

11 Jalan Tan Tock Seng, Singapore 308433

Tel: (65) 6357 7163 / (65) 6357 7640 Fax: (65) 6256 4755 Email : nni_secretariat@nni.com.sg Website : www.nni.com.sg

Title: Prof / Dr / Mr / Mrs / Mdm / Ms (Please circle)

Surname / Family Name: _____

Other Name(s): _____

Designation: _____ Department: _____

Institution: _____

Address: _____

City / Country: _____ Postal Code: _____

Tel: _____ Fax: _____

Email: _____

Please WRITE clearly how you would like your name to appear on the Certificate of Participation: _____

MCR No: _____ CPE No: _____
(For local doctors only) (For local and foreign nurses working in Singapore)

PAYMENT METHOD & AUTHORISATION

Please note that bank charges are the responsibility of the payee and should be paid at source.

Registration Fee Amount: _____

☐ **Bank Draft or Local Cheque**

I enclose herewith: _____

Cheque/Bank Draft No: _____ for
SGD\$ _____ (Payable to National Neuroscience Institute of Singapore Pte Ltd)

☐ **Bank Transfer**

For payment by bank transfer, please provide the following details:

Date of Transfer: _____ Transaction No.: _____

Payment of registration fee by bank transfer is to be made to:

(Note: Registration fee excludes bank or transfer charges. Any bank charges incurred is payable by the applicant.)

Account Name: National Neuroscience Institute of Singapore Pte Ltd

Bank: DBS BANK **Address:** Blk 101 Towner Road, #01-238, Singapore (322101)

Bank Code: 7171-028 **Bank Account:** 028-010067-1 **Swift Address:** DBSSSGSG

☐ **Credit Card**

I hereby authorise the payment of registration fee by VISA or MasterCard.

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Credit Card Number

Expiry Date: (MM/YY)

Credit Card Verification Code : □ □ □ □

The Verification Code is a three-digit number at the back of your credit card.

Cardholder Name: _____
(Please write clearly in block letters)

Authorised Signature of Cardholder: _____

Signature of Applicant: _____ Date : _____