

# Tokyo Super-EMG hands-on 2018

## Program (choose one for each time slot with \*)

	Introductory level	Advanced level
<b>Day 1 (Saturday, July 7, 2018)</b>		
8:45 – 9:00	<b>Opening ceremony</b>	
9:00 – 10:30 (*: select one)	Lectures (45-min each) <b>(1) Nerve conduction study</b> <b>(2) Radiculopathy</b>	Hands-on <b>Uncommon NCS</b>
10:50 - 12:20 (*: select one)	Hands-on <b>Basic NCS</b>	Lectures (45-min each) <b>(1) EMG identification</b> <b>(2) Diabetic neuropathy</b>
Lunch break	<b>Photos taken and Case study</b>	
13:40 – 15:10 (*: select one)	Lectures (45-min each) <b>(1) Peripheral nerve anatomy</b> <b>(2) EMG</b>	Lecture & Hands-on <b>Single-fiber EMG</b>
15:30 – 17:00 (*: select one)	Hands-on <b>Needle EMG</b>	Lecture & Hands-on <b>Limb ultrasound</b>
17:10-19:00	<b>Welcome party with Japanese participants (light supper provided)</b>	
<b>Day 2 (Sunday, July 8, 2018)</b>		
9:00 – 10:30	Lectures (45-min each) <b>(1) ALS &amp; other motor neuron diseases</b> <b>(2) Demyelinating neuropathy</b>	
10:50 – 12:20	<b>Special lecture/demo by Prof. Jun Kimura</b>	
Lunch break	<b>Case study</b>	
13:30 – 15:00 (*: select one)	Demonstration & Hands-on <b>Neuromuscular ultrasound</b>	Lecture & Hands-on <b>Needle EMG of truncal muscles</b>
15:20 – 16:50 (*: select one)	Lecture & Hands-on <b>Repetitive stimulation</b>	Lecture & Hands-on <b>EMG &amp; ultrasound of respiratory muscles</b>
16:50	Closing ceremony	

# Course description and tentative lecturers

## Day 1 (July 7, 2018)

9:00-10:30

(1) Introductory:

(Two Lectures (45-min each))

**(A) Nerve conduction study (Masakado):** An introductory lecture on basic theory and application of NCS

**(B) Radiculopathy (Saitoh):** A case-oriented lecture of cervical and lumbar radiculopathies by an orthopedic surgeon

(2) Advanced:

(Hands-on) **Uncommon NCS (Arimura & Henmi):** Hands-on experience of uncommonly performed NCSs (e.g., lateral antebrachial cutaneous nerve, plantar nerve) per request

10:50-12:20

(1) Introductory:

(Hands-on) **Basic NCS (Imai & Inaba):** An introductory hands-on experience of nerve conduction studies of commonly performed nerves (median/ulnar/tibial/sural, etc)

(2) Advanced:

(Two Lectures (45-min each))

**(A) EMG identification (Sonoo):** A quiz-style lecture of many EMG waveforms and tips for identification

**(B) Diabetic neuropathy (Baba):** A lecture of variable subtypes of diabetic neuropathy and discussion of the electrodiagnostic severity scale

Lunch break

**Case study (Misawa):** An interactive lecture of clinical cases

Cont'd (Day 1) 13:40-15:10

(1) Introductory:

(Two Lectures (45-min each))

**(A) Peripheral nerve anatomy (Nodera):** An introductory lecture of brachial plexus and other complicated structures to become familiar and clinically manageable

**(B) EMG (Komori):** An introductory lecture of theoretical background and applicability of needle EMG

(2) Advanced:

(Lecture & Hands-on) **Single-fiber EMG (Arimura & Nakamura):** A lecture of single fiber EMG and its technical tips as well as hands-on experience of mainly voluntary single-fiber EMG. Please prepare to be a subject.

15:30-17:00

(1) Introductory:

(Hands-on) **Needle EMG (Sonoo & Miyaji):** A hands-on experience of needle-electromyography to understand the correct procedure and choice of muscles. Please prepare to be a subject.

(2) Advanced:

(Lecture & Hands-on) **Limb ultrasound (Tsukamoto & Noto):** A lecture of neuromuscular ultrasound in the upper and lower extremities and its practice. Please prepare to be a subject.

17:10-19:00

**Welcome party** (light supper and beverages will be served)

Interactive opportunity to ask questions to lectures. Entertaining quiz and presentation opportunities are present.

**Day 2 (July 8, 2018)**

9:00-10:30

(Two Lectures (45-min each) for all participants)

**(1) ALS & other motor neuron diseases (Kohara):** A lecture of electrodiagnostic characteristics of ALS and other motor neuron diseases

**(2) Demyelinating neuropathy (Kuwabara):** A lecture on possible mechanisms in various demyelinating neuropathies (Guillain-Barré syndrome, typical and atypical CIDP, etc)

10:50-12:20

**Special lecture/demo by Prof. Jun Kimura** (for all participants)

The highlight of this course by a world-famous legend! Always interactive with participants, so be prepared.

Lunch break

**Case study (Nodera):** An interactive session to discuss about approaches by each participant in cases

13:30-15:00

(1) Introductory:

(Demonstration & Hands-on) **Neuromuscular ultrasound (Misawa & Noto):** A lecture of neuromuscular ultrasound and demonstration of nerves and muscles. If time allows, hands-on opportunity is available.

(2) Advanced:

(Lecture & Hands-on) **Needle EMG of truncal muscles (Kurokawa & Kokubun):** A lecture of anatomy and clinical presentations of proximal muscles (serratus anterior, rhomboid, etc.), followed by hands-on experience. Please prepare to be a subject.

Cont'd (Day 2) 15:20-16:50

(1) Introductory:

(Lecture & Hands-on) **Repetitive stimulation (Hatanaka)**: An introductory lecture of assessment of neuromuscular junctions and hands-on experiences of repetitive stimulation studies. Please prepare to be a subject.

(2) Advanced:

(Lecture & Hands-on) **EMG & ultrasound of respiratory muscles (Imai & Sekiguchi)**: A lecture of electrophysiological techniques of assessing respiratory muscles (phrenic nerve conduction study, needle EMG of diaphragm), in addition to visualization of such structures by ultrasound.