

Scientific program



ISPNI

International Society of
Peripheral Neurophysiological Imaging

8th Annual Meeting

Trieste, Italy

19 - 21 September 2019

Stazione Marittima



Welcome to Trieste

We wish you a warm welcome to the city of Trieste!

Trieste is not the typical Italian city you may expect to see: many different cultures, religions, languages and traditions are the special "ingredients" of the exclusive melting pot that will frame your stay in this city!

Western, Eastern and Central European heritage find here a balanced equilibrium where each community, living side by side, was able to leave a permanent sign within the international soul of Trieste.

Its baricentric location has always made Trieste a strategic European city, even in the scientific world: in 2020 the city will host the European Open Science Forum and ISPNI 8th annual meeting is one of the pro-ESOF events, proving its relevance within the world of the scientific research.

Our annual meeting represents an important moment for the neurological sciences, given its high-level international faculty presenting innovations and new approaches for diagnosis and management of pathologies of the peripheral nerve. Ultrasound of peripheral nerve is an innovative method in this field: it increases the knowledge of pathological mechanisms and opens to new prospectives in clinical management. The neuroimaging with ultrasounds and magnetic resonance imaging of inflammatory and post traumatic nerve diseases is becoming mandatory for the right diagnosis. The translational method to combine clinical neurophysiology and ultrasounds is quite revolutionary to all operators in this field.

For those participants approaching for the first time this method, a basic course followed by a practical hands-on session is envisaged just before the main conference, so that everyone can fully take advantage of this 3-day conference!

We wish to all of you a productive conference and, above all, professional improvement!

Paolo Manganotti

Lisa Hobson-Webb

Luca Padua

Simon Podnar



prof. Paolo
MANGANOTTI
Trieste, ITALY



prof. Lisa
HOBSON - WEBB
Durham, USA



prof. Luca
PADUA
Roma, ITALY



prof. Simon
PODNAR
Ljubljana, SLOVENIA

Thursday 19 September 2019

BASIC COURSE
ROOM OCEANIA

8.00 AM Basic Course registrations

8.30 AM **MAIN UPPER LIMB NERVES : MEDIAN, ULNAR & RADIAL NERVE**
SIMON PODNAR

9.15 AM **MAIN LOWER LIMB NERVES: FIBULAR, TIBIAL, SCIATIC & SURAL**
LUCA PADUA

10.00 AM **UNUSUAL NERVES, TENDONS AND MUSCLES**
CARLO MARTINOLI

10.45 AM **HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE**

Hands-on groups with the tutoring of

ANTONIOS KERASNOUDIS - CARLO MARTINOLI -
GREGOR OMEJEC - LUCA PADUA - SIMON PODNAR -
CRAIG M. ZAIDMAN

1.00 PM **BASIC COURSE CLOSURE**

Thursday 19 September 2019

MAIN CONFERENCE
ROOM OCEANIA

12.30 PM	Main Conference registrations	
1.30 PM	OPENING SESSION	
	Chairs : LISA HOBSON-WEBB, PAOLO MANGANOTTI	
	Welcome addresses	
	LISA HOBSON-WEBB, PAOLO MANGANOTTI, LUCA PADUA	
2.00 PM	MUSCLE ULTRASONOGRAPHY	
	Chairs : NENS VAN ALFEN, FRANCIS WALKER	
	Ultrasonography in inflammatory myopathies and muscular dystrophies	
	CRAIG M. ZAIDMAN	20'
	Muscle echogenicity measurements	
	ANDREA BOON	20'
	Scoring systems in muscle ultrasonography	
	NENS VAN ALFEN	20'
3.00 PM	HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE	
	Unusual upper limb, shoulder girdle and neck nerves	
	JEFFREY A. STRAKOWSKI	10'
	Hands-on groups with the tutoring of	
	NENS VAN ALFEN - ZSUZSANNA ARANYI - DANIELE CORACI - DORIS LIEBA-SAMAL - ŽIGA SNOJ	50'
4.00 PM	ULTRASONOGRAPHY IN FOCAL NEUROPATHIES	
	Chairs : ERVINA BILIĆ	
	Controversies in carpal tunnel syndrome: diagnosis and treatment	
	JEREMY BLAND	20'
	The use of ultrasound for focal ulnar neuropathies	
	JOONSHIK YOON	20'
	How useful is ultrasonography in diagnosing focal neuropathies added on polyneuropathy	
	DANIELE CORACI	20'
5.00 PM	HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE	
	Unusual lower limb and pelvic girdle nerves	
	CARLO MARTINOLI	20'
	Hands-on groups with the tutoring of	
	MICHAEL S. CARTWRIGHT - DANIELE CORACI - CARLO MARTINOLI	
	JEFFREY A. STRAKOWSKI - FRANCIS WALKER	40'

Thursday 19 September 2019

PARALLEL SESSIONS

ROOM OCEANIA

6.00 PM **PRO ET CONTRA IN
ULTRASONOGRAPHY AND
NEUROPATHY**

Chairs :
MICHAEL S. CARTWRIGHT, LUCA PADUA

DIAGNOSIS OF INFLAMMATORY POLYNEUROPATHIES

All you need is electrodiagnosis
FRANCIS WALKER 15'

Ultrasonography adds important
information
ALEXANDER GRIMM 15'

FIRST EXAMINATION IN PATIENTS WITH ENTRAPMENT NEUROPATHIES

Ultrasonography
LISA HOBSON-WEBB 15'

Electrodiagnosis
JEREMY BLAND 15'

STEROID INJECTIONS

Only under strict sterile conditions
JEFFREY A. STRAKOWSKI 15'

Well cleaned, but not sterile
NENS VAN ALFEN 15'

ROOM VULCANIA

6.00 PM **ULTRASONOGRAPHICALLY
GUIDED BOTULINUM INJECTION
IN SPASTICITY**

Chairs :
SERDAR KOÇER, PAOLO MANGANOTTI

INDICATIONS FOR ULTRASONOGRAPHY AND ELECTROSTIMULATION IN BOTULINUM INJECTION

Indications and guidelines for
ultrasonographically guided injections of
botulinum toxin in spasticity and dystonia
JÖRG WISSEL 20'

When the electrostimulation is better
PAOLO MANGANOTTI 10'

6.30 PM **HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE**

Anatomical guide on usually injected muscles
and muscle skeletal
CARLO MARTINOLI 15'

Hands-on groups with the tutoring of
SERDAR KOÇER - CARLO MARTINOLI -
JÖRG WISSEL 45'

7.30 PM **END OF SESSIONS**

7.45 PM **WELCOME COCKTAIL @ CAFFE' DEGLI SPECCHI**

PARALLEL SESSIONS

ROOM OCEANIA

8.15 AM **ULTRASONOGRAPHY**

Chairs :
DANIELE CORACI, MARCELLO C. ROMANO

Peripheral nerve fascicular structure
in health and disease
ALEXANDER GRIMM 30'

Ultrasonographically important anatomic
variants and nerve trauma
LUCA PADUA 30'

9.15 AM **HANDS-ON: EXPLAIN,
DEMONSTRATE, SUPERVISE**

Unusual nerves
NENS VAN ALFEN 15'

Hands-on groups with the tutoring of

NENS VAN ALFEN - ZSUZSANNA ARANYI -
DANIELE CORACI - DORIS LIEBA-SAMAL -
ŽIGA SNOJ 60'

ROOM VULCANIA

8.15 AM **ULTRASONOGRAPHY IN NEURAL
BLOCKS AND UTILITY TREATMENT
IN FOCAL SPASTICITY**

Chairs :
GIANLUIGI GIGLI, CRAIG M. ZAIDMAN

Ultrasonography and toxin injection in the
treatment of spasticity
SERDAR KOÇER 20'

Ultrasonography is better and more useful
for interventional nerve blocks
FRANCIS WALKER 20'

Neurophysiology and electro stimulation is
better
JACOPO BONAVIDA 20'

9.15 AM **HANDS-ON: EXPLAIN,
DEMONSTRATE, SUPERVISE**

Interventional musculoskeletal and
neuromuscular ultrasonography with video
demonstrations in the treatment of
spasticity and motor disorders
FRANCIS WALKER 15'

Hands-on groups with the tutoring of

FRANCIS WALKER - SERDAR KOÇER 60'

Friday 20 September 2019

PLENARY SESSION
ROOM OCEANIA

10.45 AM

INVITED TALK



prof. Lucio Santoro
University of Naples,
Italy

LUCIO SANTORO

Neurophysiology:
what can it say and what cannot

Chairs

LISA HOBSON-WEBB, PAOLO MANGANOTTI

11.30 AM

ISPNI BUSINESS MEETING

Chairs LISA HOBSON-WEBB, LUCA PADUA

12.00 PM

INVITED TALK



prof. Giuseppe
Lauria Pinter
University of Milan,
Italy

GIUSEPPE LAURIA PINTER

Painful neuropathies
diagnosis and treatment

Chairs

LISA HOBSON-WEBB, SIMON PODNAR

12.30 PM

INVITED TALK



prof. Eduardo
Nobile Orazio
Humanitas,
Italy

EDUARDO NOBILE ORAZIO

Treatment of
dysimmune neuropathies

Chairs

LISA HOBSON-WEBB, SIMON PODNAR

1.00 - 2.00 PM

POSTER SESSION & LUNCH BREAK

PARALLEL SESSIONS

ROOM OCEANIA

2.00 PM **ULTRASONOGRAPHY IN
DIFFERENT NEURO-
MUSCULAR CONDITIONS**

Chairs :
ANDREA BOON, GREGOR OMEJEC

Ultrasonography in neuralgic amyotrophy
ZSUZSANNA ARANYI 40'

Imaging in myopathies
NENS VAN ALFEN 40'

Ultrasonography of the cranial nerves
DORIS LIEBA-SAMAL 40'

4.00 PM **HANDS-ON: EXPLAIN,
DEMONSTRATE, SUPERVISE**

Video Olympic
on ultrasound
LUCA PADUA 20'

Hands-on groups with the tutoring of
MICHAEL S. CARTWRIGHT - DANIELE
CORACI - JEFFREY A. STRAKOWSKI -
FRANCIS WALKER 40'

5.00 PM **ULTRASONOGRAPHY IN
INFLAMMATORY
NEUROPATHIES**

Chairs :
NATALIE WINTER, JOONSHIK YOON

Reference values
in Ultrasonography
ANTONIOS KERASNOUDIS 30'

Ultrasonography as a tool for diseases
follow-up
CRAIG M. ZAIDMAN 30'

Ultrasonographic assistance in
electrodiagnostic studies
ANDREA BOON 30'

ROOM VULCANIA

2.00 PM **UTILITY OF
ULTRASONOGRAPHY IN
MOTOR DISORDERS**

Chairs:
ANTONIOS KERASNOUDIS, PAOLO MANGANOTTI

Ultrasonography in amyotrophic lateral
sclerosis and other motor neuron disorders
LISA HOBSON - WEBB 30'

Immune mediated neuropathies, entrapment
neuropathies and US
ANTONIOS KERASNOUDIS 30'

What ultrasonography adds to the
diagnosis of motor neuron disorders?
STEFANIE SCHREIBER 30'

Ultrasonography in inflammatory
myopathies and muscular dystrophies
CRAIG M. ZAIDMAN 30'

4.00 PM **BREAK**

5.00 PM **MAGNETIC RESONANCE IN
CERVICAL AND
CRANIAL NERVES**

Chairs :
MARIA ASSUNTA COVA, DANIEL SCHWARZ

Magnetic resonance in cervical
radiculopathies
ROBERTO GASPAROTTI 30'

Ultrasonography of cranial nerves
MICHAEL S. CARTWRIGHT 30'

Magnetic resonance imaging
of cranial nerves
DANIEL SCHWARZ 30'

Friday 20 September 2019

**PLENARY SESSION
ROOM OCEANIA**

6.30 PM

ORAL POSTER SESSION - Free communications (4 min. each)

Chairs : LISA HOBSON-WEBB, LUCA PADUA

Diagnostic usefulness of elastography in myofascial pain syndrome
SANG MOON YOON

Upper eyelid orbicularis muscle ultrasound in myasthenia gravis: preliminary data
FERDINANDO SARTUCCI

Ultrasound changes of vagus nerve in diabetes neuropathy
FERDINANDO SARTUCCI

High resolution ultrasound of scapulae alatae - correlation with electrophysiological measurements - a prospective case control study
ERISELA QERAMA MONTVILAS

Is peripheral nerve ultrasound suitable as a biomarker for representing disease progression in amyotrophic lateral sclerosis?
SEOL-HEE BAEK

Correlation between nerve conduction studies and nerve ultrasound in compressive sural neuropathy
CID AURELIO DELGADO PUGLEY

The safety zone of procedure in the sternocleidomastoid muscle
JUNHO CHOI

A novel small fibre peripheral neuropathy approach -ultrasound on the tips of the fingers and toes
ANTONIN GECHEV

Contribution of ultrasonography in traumatic lesions of the peripheral nerves
SIMON PODNAR

Correlation between neurosonographic findings and electrophysiological study in Charcot-Marie-Tooth 1a patients
SANG BEOM KIM

Ultrasound for evaluation of nerve trauma during radial artery harvest
SARADA SAKAMURI

Hereditary transthyretin amyloidosis: morphological nerve features. A multicenter Italian study
DANIELE CORACI

High-frequency ultrasonography of the vagus nerve: a possible candidate marker for the early diagnosis and staging in parkinson's disease. A functional analysis of the scientific literature
AUGUSTO FUSCO

7.30 PM

END OF SESSION

8.30 PM

SOCIAL DINNER @ STARHOTELS SAVOIA EXCELSIOR PALACE

PARALLEL SESSIONS

ROOM OCEANIA

8.30 AM	ULTRASONOGRAPHY IN GENETIC NEUROPATHIES
Chairs: ZORAN ARNEŽ, LORENZO VERIELLO	
Inherited Neuropathies: update and potential roles of nerve ultrasound GIAN MARIA FABRIZI	
	30'
Ultrasonographic findings in neurofibromatosis NATALIE WINTER	
	30'
Ultrasonography in amyloidosis SIMON PODNAR	
	30'
Ultrasonography in genetic neuropathies (Charcot-Marie-Tooth) DANIELE CORACI	
	30'

10.30 AM	IMPORTANCE OF ULTRASONOGRAPHY IN NERVE TRAUMA
Chairs : LUIGI MURENA, SIMON PODNAR, LEONELLO TACCONI	
Ultrasonography nerve trauma and classification JEFFREY A. STRAKOWSKI	
	30'
Ultrasonography in traumatic nerve and tendon lesions LUCA PADUA	
	30'
The utility of ultrasonography for the intervention ANDRE FAIOLA	
	30'
Round table and discussion for a possible international Ultrasonography protocol of pre and post nerve interventions	
	30'

12.30 PM **END OF SESSION**

**PLENARY SESSION
ROOM OCEANIA**

12.30 PM	CONCLUSIONS
LISA HOBSON-WEBB, PAOLO MANGANOTTI, LUCA PADUA, SIMON PODNAR	
1.00 PM	CONGRESS CLOSURE

ROOM VULCANIA

8.30 AM	NEUROIMAGING OF PERIPHERAL NERVES WITH MAGNETIC RESONANCE
Chairs : ROBERTO GASPAROTTI, MAYA UKMAR	
Magnetic Resonance of the brachial and lumbar sacral plexus ROBERTO GASPAROTTI	
	35'
Peripheral nerve diffusion tensor imaging, neuro-muscular, magnetic resonance imaging of cranial nerves DANIEL SCHWARZ	
	35'
Magnetic resonance imaging and peripheral nerve trauma SIMONETTA GEREVINI	
	35'
Round table and discussion: better MRI or Ultrasound?	
	15'

10.30 AM **END OF SESSION & BREAK**

GENERAL INFO

VENUE

Stazione Marittima
Molo Bersaglieri 3 - Trieste | Italy

ORGANIZING SECRETARIAT

the office

During the conference the Organizing Secretariat will be available according to the following timetable

Thursday 19 September 2019	8.00 AM - 8.00 PM
Friday 20 September 2019	8.00 AM - 8.00 PM
Saturday 21 September 2019	8.00 AM - 1.00 PM

You can contact the Organizing Secretariat by email (ISPNI2019@theoffice.it) or at the mobile number +39 3383387766.

ONSITE REGISTRATION FEES

Specialist	EUR 600,00.- VAT incl.
Resident / Student / Technician	EUR 500,00.- VAT incl.

Registration fees include:

- attendance to scientific sessions | Conference kit
- welcome cocktail (Thursday 19) | light lunch (Friday 20) | Social Dinner (Friday 20)

POSTER SESSION

Poster will be displayed for the duration of the conference.
We kindly invite all the authors to stand by their posters during the poster session, scheduled on **Friday 20 September during lunch break**.
A team of tutors will go through all the displayed posters to ask questions and to evaluate them.

The best poster will be nominated during the closing session of the conference.

OFFICIAL LANGUAGE

The official language of the conference is English.
No simultaneous interpreting will be available.

ID BADGE

Your personal ID badge will be ready for you at the conference registration desk.
For security reasons, delegates and exhibitors will be asked to wear their ID badges during the whole conference and at all social events.

CERTIFICATES OF ATTENDANCE

Certificates of attendance will be sent via email upon request to all participants.

LIABILITY & INSURANCE

The Organizing Secretariat and the Committees accept no responsibility whatsoever for any injury or damage involving persons and property during the conference.

FLOOR MAP



FACULTY

- Aranyi, Zsuzsanna | Hungary
- Arnež, Zoran | Italy
- Bilić, Ervina | Croatia
- Bland, Jeremy | UK
- Bonavita, Jacopo | Italy
- Boon, Andrea J. | USA
- Cartwright, Michael S. | USA
- Coraci, Daniele | Italy
- Cova, Maria Assunta | Italy
- Fabrizi, Gian Maria | Italy
- Faiola, Andrea | Italy
- Gasparotti, Roberto | Italy
- Gerevini, Simonetta | Italy
- Gigli, Gianluigi | Italy
- Grimm, Alexander | Germany
- Hobson-Webb, Lisa | USA
- Kerasnoudis, Antonios | Greece
- Koçer, Serdar | Switzerland
- Lauria Pinter, Giuseppe | Italy
- Lieba-Samal, Doris | Austria
- Manganotti, Paolo | Italy
- Martinoli, Carlo | Italy
- Murena, Luigi | Italy
- Nobile Orazio, Eduardo | Italy
- Omejec, Gregor | Slovenia
- Padua, Luca | Italy
- Podnar, Simon | Slovenia
- Romano, Marcello Calogero | Italy
- Santoro, Lucio | Italy
- Schreiber, Stefanie | Germany
- Schwarz, Daniel | Germany
- Snoj, Žiga | Slovenia
- Strakowski, Jeffery A. | USA
- Tacconi, Leonello | Italy
- van Alfen, Nens | The Netherlands
- Veriello, Lorenzo | Italy
- Walker, Francis | USA
- Winter, Natalie | Germany
- Wissel, Jörg | Germany
- Yoon, Joon Shik | South Korea
- Zaidman, Craig M. | USA

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NOTES

See you next year



Dear colleague,

Welcome to the website of the 2020 International Course and Conference on Neuromuscular Imaging!

ISPNI is a multidisciplinary group dedicated to the advancement of peripheral nerve and muscle imaging. It is comprised of clinicians and researchers from six continents. A wide range of specialties is represented, including neurology, radiology, physiatry, rheumatology, orthopedic surgery and many more. Our academic interest centers on integration of imaging into the clinical and neurophysiologic assessment of peripheral nerve and muscle diseases. ISPNI conducts an annual course and conference for the presentation of research, didactics and to provide hands-on training in neuromuscular ultrasound techniques.

This 9th Annual Meeting of the International Society of Peripheral Nerve Imaging (ISPNI) will take place in the vibrant port city of Rotterdam, the Netherlands. On behalf of the local organizing committee and supported by the Dutch Clinical Neurophysiology Society, we are proud to continue the tradition and present you with a varied scientific and teaching program focusing on clinical neuromuscular imaging. Besides talks and demos on ultrasound and MRI for both muscles and nerves, this edition will also feature the Promising Investigators' Awards and ISPNI Francis Walker Award for a colleague who has excelled in advancing neuromuscular ultrasound over the years.

In addition to the meeting, there will also be a 2-day international pre-conference hands on teaching course on neuromuscular ultrasound.

More details on the conference and course will follow this fall. We look forward to seeing you in Rotterdam next year!

www.iccnmi2020.com

ORGANIZING SECRETARIAT
ISPNI 2019
8TH ANNUAL MEETING

the office

via San Nicolò 14
34121 Trieste - I
ISPNI2019@theoffice.it
T. +39 040 368343
M. +39 3383387766

