Scientific program

ISPNI

International Society of Peripheral Neurophysiological Imaging

8th Annual Meeting Trieste | Italy 19 - 21 September 2019



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 improvment!

Paolo Manganotti Lisa Hoborn-Webb Luca Pasua Simon Posnar



prof. Paolo MANGANOTTI Trieste, ITALY



prof. Lisa HOBSON - WEBB Durham, USA



prof. Luca PADUA Roma, ITALY



prof. Simon PODNAR Ljubljana, SLOVENIA

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
10.45 AM	CARLO MARTINOLI HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE
	Hands-on groups with the tutoring of ANTONIOS KERASNOUDIS - CARLO MARTINOLI - GREGOR OMEJEC - LUCA PADUA - SIMON PODNAR -
1.00 PM	CRAIG M. ZAIDMAN BASIC COURSE CLOSURE

MAIN CONFERENCE ROOM OCEANIA

12.30 PN	1 Main Conference registrations	
1.30 PN	OPENING SESSION	
	Chairs : LISA HOBSON-WEBB, PAOLO MANGANOTTI	
	Welcome addresses	
	LISA HOBSON-WEBB, PAOLO MANGANOTTI, LUCA PADUA	
2.00 PN	MUSCLE ULTRASONOGRAPHY	
	Chairs : NENS VAN ALFEN, FRANCIS WALKER	
	Ultrasonography in inflammatory myopathies and muscular dystrophies CRAIG ZAIDMAN	20'
	Muscle echogenicity measurements ANDREA BOON	20'
	Scoring systems in muscle ultrasonography NENS VAN ALFEN	20'
3.00 P	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 P	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 P	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 MARTINO JEFFREY A. STRAKOWSKI - FRANCIS WALKER)LI 40'

PARALLEL SESSIONS

ROOM OCEA	NIA		ROOM VU	LCANIA
6.00 PM	PRO ET CONTRA IN ULTRASONOGRAPHY AN NEUROPATHY	ID	6.00 PM	ULTRASONOGRAPHICALLY GUIDED BOTULINUM INJECTION IN SPASTICITY
Chairs : MICHAEL S.	CARTWRIGHT, LUCA PAE	AUC	Chairs : SERDAR I	KOÇER, PAOLO MANGANOTTI
	IS OF INFLAMMATORY JROPATHIES			INS FOR ULTRASONOGRAPHY AND STIMULATION IN BOTULINUM INJECTION
All you need FRANCIS W	is electrodiagnosis ALKER	15'	ultrasono	ns and guidelines for graghically guided injections of n toxin in spasticity and dyastonia SSEL 20'
Ultrasonogr information ALEXANDE		15'		electrostimulation is better ANGANOTTI 10'
	AMINATION IN PATIENTS 1ENT NEUROPATHIES	WITH	6.30 PM	HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE
Ultrasonogr LISA HOBSC	aphy DN-WEBB	15'	and muse	al guide on usually injected muscles cle skeletals ARTINOLI 15'
Electrodiag JEREMY BL	nosis AND	15'		n groups with the tutoring of
STEROID	INJECTIONS		SERDAR JÖRG WIS	KOÇER - CARLO MARTINOLI - SSEL 45'
Only under s JEFFREY A	strict sterile conditions . STRAKOWSKI	15'		
Well cleaned NENS VAN A	d, but not sterile ALFEN	15'		
	7.30 PM END OF \$	SESSIONS		

7.45 PM WELCOME COCKTAIL @ CAFFE' DEGLI SPECCHI

PARALLEL SESSIONS

ROOM OCEANIA	ROOM VULCANIA
8.15 AM ULTRASONOGRAPHY	8.15 AM ULTRASONOGRAPHY IN NEURAL BLOCKS AND UTILITY TREATMENT IN FOCAL SPASTICITY
Chairs : DANIELE CORACI, MARCELLO C. ROMANO	Chairs : GIANLUIGI GIGLI, CRAIG M. ZAIDMAN
Peripheral nerve fascicular structure in health and disease ALEXANDER GRIMM 30'	Ultrasonography and toxin injection in the treatment of spasticity SERDAR KOÇER 20'
Ultrasonographically important anatomic variants and nerve trauma LUCA PADUA 30'	Ultrasonography is better and more useful for interventional nerve blocks FRANCIS WALKER 20'
LOCATADOA 50	Neurophysiology and electro stimulation is better JACOPO BONAVITA 20'
9.15 AM HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE	9.15 AM HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE
Unusual nerves NENS VAN ALFEN 15'	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	
NENS VAN ALFEN - ZSUZSANNA ARANYI - DANIELE CORACI - DORIS LIEBA-SAMAL - ŽIGA SNOJ 60'	Hands-on groups with the tutoring of FRANCIS WALKER - SERDAR KOÇER 60'

10.30 AM END OF SESSIONS

Friday 20 September 2019

PLENARY SESSION ROOM OCEANIA

Italy

10.45 AM	INVITED TALK
	LUCIO SANTORO Neurophysiology: what can it say and what cannot
	Chairs LISA HOBSON-WEBB, PAOLO MANGANOTTI
prof. Lucio Santoro University of Naples.	

11.30 AM	ISPNI BUSINESS MEETING	30'
	Chairs LISA HOBSON-WEBB, LUCA PADUA	

12.00 PM **INVITED TALK**



GIUSEPPE LAURIA PINTER

Painful neuropathies diagnosis and treatment Chairs

LISA HOBSON-WEBB, SIMON PODNAR

30'

45'

prof. Giuseppe Lauria Pinter University of Milan, Italy

12.30 PM INVITED TALK



prof. Eduardo Nobile Orazio Humanitas, Italy

EDUARDO NOBILE ORAZIO

Treatment of dysimmune neuropathies

30'

Chairs LISA HOBSON-WEBB, SIMON PODNAR

ROOM OCEANIA

2.00 PM ULTRASONOGRAPHY IN DIFFERENT NEURO-MUSCULAR CONDITIONS

Chairs : ANDREA BOON, GREGOR OMEJEC

Ultrasonography in neuralgic amyotroph	וא
ZSUZSANNA ARANYI	40'
Imaging in myonathies	10

NENS VAN ALFEN 40'

Ultrasonography of the cranial nerves DORIS LIEBA-SAMAL 40'

4.00 PM HANDS-ON: EXPLAIN, DEMONSTRATE, SUPERVISE

Video Olympic	
onultrasound	
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'

6.30 PM END OF SESSIONS

ROOM VULCANIA

PARALLEL SESSIONS

2.00 PM	UTILITY OF ULTRASONOGRAPHY IN MOTOR DISORDERS
Chairs: ANTONIOS	S 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 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

raduculopaties ROBERTO GASPAROTTI 30'

Ultrasonography of cranial nerves MICHAEL S. CARTWRIGHT 30'

Magnetic resonance imaging of cranial nerves DANIEL SCHWARZ

30'

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 myastenia 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
	ls 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 diasease. A functional analysis of the scientific literature AUGUSTO FUSCO
7.30 PM	END OF SESSION

8.30 PM SOCIAL DINNER @ STARHOTELS SAVOIA EXCELSIOR PALACE

ROOM OCEANIA

ULTRASONOGRAPHY 8.30 AM **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'

IMPORTANCE OF 10.30 AM **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

Round table and discussion for a possibile internationl Ultrasonography protocol of pre and post nerve interventions 30'

END OF SESSION 12.30 PM

PLENARY SESSION ROOM OCEANIA

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

30'

PARALLEL SESSIONS

0 70 114

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 imagir of cranial nerves DANIEL SCHWARZ	ng 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

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.

FACULTY

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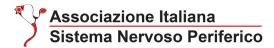
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UNIVERSITÀ DEGLI STUDI DI TRIESTE

NOTES

NOTES



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 9thAnnual 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

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