



UNIME **Neurochirurgia**
Nch Università degli Studi
di Messina



Messina Neuro Trauma 2019 *Pannonians move to Sicily*

*2nd EANS Trauma and Critical Care Update Meeting
WFNS NeuroTraumatology - NeuroRehabilitation
and Reconstructive Committee Simposia*

October 3-4 2019
Milazzo - Messina
Sicily

Dear Colleagues

We cordially invite you to attend the International Conference **Pannonians Move to Sicily** - CNS Trauma: The Challenge of Reconstruction, which will be held on **October 3-4, 2019 in Milazzo-Messina, Italy**. The conference is the perpetuation of the successful Pannonians Meeting on TBI that have been organised by Dr. Andras Buki and Tamas Doczi in Pecs, Hungary in a new join-format between the Universities of Messina, Pecs, and Lund. Presidents of the Congress are John T. Povlishock and Franco Servadei, Francesco Tomasello and Tamas Doczi, and is under the auspices of the WFNS, EANS, SINCh, UNIME, AOU Policlinico G. Martino.

We expect an outstanding Faculty coming from the world-wide TBI community!

Topics of the conference are: basic pathomechanisms; models, databases in translational researches; recommendations and guidelines; reconstruction and restoration in TBI and SCI; burning question of global care for TBI.

We will also host two specific WFNS Symposia of the Neurotraumatology and of the Neurorehabilitation & Reconstructive Neurosurgery Committees. The symposium will be held in Milazzo, the place where Ulysses was shipwrecked and met Polyphemus, is located at the base of a peninsula that juts into the Tyrrhenian Sea with a small promontory, 43 kilometres (27 mi) from the city of Messina, in an exclusive residential community with green space overlooking a crystalline sea-bay, beaches and one of the largest Moorish castles in Europe. The hospitality will be in a 4-star hotel and has been designed to offer guests maximum comfort and technology.

We invite you, as well as members of your group, to participate to the conference!

See you in Milazzo!!!

Andras Buki, Antonino Germanò, Niklas Marklund

SCIENTIFIC PROGRAM

October 3 2019

Room A

08:00 - 08:30 Welcome

08:30 - 10:00 Basic Pathomechanisms

Chair: F. Tomasello, T. Doczi, P. Cappabianca

Pathophysiology of Intracranial Hypertension

M. Czosnyka

The Role of Mitochondria on TBI Pathophysiology

S. Signoretti

Oligodendroglia in TBI

N. Marklund

Preclinical Studies on Pathophysiology of TBI

H. Bramlett

Biomarkers in Preclinical Research

K. Wang

Keynote Lecture: Role of Neuroinflammation and its Resolution in TBI

S. Cuzzocrea

Open Coffee

10:10 - 11:30 Models, Databases in Translational Research

Chair: F. Servadei, L. Califano, T. Khan

Multivariate Projection Method

A.T. Mazzeo

Neurotrauma Models and Their Relevance

M. Risling

Pharmacological Lab Research in TBI- What is in the Pipeline?

A. Unterberg

Databases in Preclinical and Clinical TBI

D. Agoston

Keynote Lecture: The Role of Laboratory-Developed Tests in the Assessment of Brain Injury and Disease

R.L. Hayes

11:40 - 12:40 Models, Databases in Translational Research

Chair: M. Scerrati, A. Pompucci, D. D'Avella

A Critical Appraisal of Biomarker Platforms

S. Mondello

Development of a Serum Biobank and Preliminary Biomarker Investigations in a Large Scale International TBI Study

E. Czeiter

DAI Made Visible

A. Potapov

Imaging Detected Changes and their Relationships to Biomarker Discover

R. Diaz-Arrastia

12:40 - 13:00 Special lecture: Global Perspective in TBI

F. Servadei

13:00 - 14:00 Lunch

14:00 - 15:00 Recommendations and Guidelines

Chair: A. Lavano, F. Zenga, N. Marklund

Identification and Implementation of Best Practices in the Treatment of TBI- The Chinese Experience

L. Yang

Clinical Recommendations for DC

C. Iaccarino

Improving Outcomes in TBI Patients

A. Valadka

Functional Changes and Cranioplasty During Rehabilitation

R. Formisano

15:00 - 16:30 Short Communications

Chair: A. Buki, L. Denaro, D. Solari

Cranioplasty: Our Experience in the Last 4 Years with the Cryopreservation

C. De Simone

Sinking Bullet Syndrome: a Unique Case of Transhemispheric Migration

L. Augusto

The Role of Neck Positioning in ICP Control

G. Petrella

Our Experience of Using Guidelines in Treatment of TBI in Children

Z. Semanova

Brain and Memory Changes in Long Term Survivors of Severe Non Missile Traumatic Brain Injury 1 Vs 8 Years: a Voxel-Based Morphometry Follow-Up Study
S. Nigro

Antiplatelet and Anticoagulants Drugs in mTBI Patients
C. Zoia

Anticoagulants Therapy and mTBI Patients
C. Zoia

Acute Alcohol Intoxication in mTBI Patients
C. Zoia

Resolution and Treatment of Traumatic Brain and Spine Injuries in Primary Health Care Unit
N. Syrmos

Specialties of Childhood Severe Traumatic Brain Injury in the South Pannonian Regions
D. Szellár

The Use of Synthetic Hydroxyapatite (Custom Bone) in Reconstructive Surgery of Skull Defects in Children
A. Marshintsev

Circulating miRNAs signature in serum mild Traumatic Brain Injury
M. Aguenouz

A Monocentric Prospective Observational Study on Outcome of Patients with Moderate/Severe TBI (TBI-Pro): Preliminary Results of 225 Patients
P. Gritti

18:30

Welcome Ceremony

Aula Magna Rettorato - University of Messina

Damiano Foundation TBI Research Educational Grant
Grant Awarded to a Young Neurosurgeon

Lectio Magistralis

John T. Povlishock

Lectio Magistralis

Francesco Tomasello

SCIENTIFIC PROGRAM

08:30 - 10:30 Reconstruction and Restoration – Brain injury

Chair: R. Ghardipour, M. Munari, K. Rotim

Resiliency in Severe TBI

G. Bonanno

Memory and Anatomical Changes in Severe Non Missile TBI: 1 Vs 8 Yrs of Follow-up

F. Tomaiuolo

Behavioural Outcomes and Emotional Regulation Following TBI

M. Quattropani

Airway and Nutrition Management in Severe TBI

O. Piazza

Early Vs Late Cranial Reconstruction Following TBI

H. Mee

Cranioplasty After TBI Using 3D Additive Manufacturing of Customized Implants: Current and Future Perspectives

B. Splavski

Endoscopic transnasal-transorbital approaches to the orbit: how we do it

A. Karligkiotis

Endocrinological Reconstruction

F. Ferraù

Neuroanesthesia

S. Robicsek

Open Coffee

10:30 - 12:05 Reconstruction and Restoration – Spinal Cord Injury

Chair: G. Barbagallo, A. Demetriades, V. Denaro

Concomitant Traumatic Cranio-Spinal Injury and Modern Approaches for Spinal Reconstruction

A. Demetriades

Biotechnologies and Biomaterials for Spinal Reconstruction

R. Papalia

New Techniques in Spinal Reconstruction for Compression Fractures*N. Francaviglia***Spinal Reconstruction. Where Are We Now?***A. Raco***Viable C5 and C6 Proximal Stump Use in Reconstructive Surgery of the Adult Brachial Plexus Traction Injuries***L. Rasulic***Keynote Lecture: The Role of Rehabilitation and Neural Engineering in Promoting Recovery After Spinal Cord Injury***D. Dietrich***12:10 - 13:30 Post-Traumatic Hydrocephalus and Other TBI Scenarios***Chair: A. Belli, P. De Marinis, A. Sik***Pediatric TBI – Pathomechanisms/Differences with Adults***T. Kapapa***The Changing Face of TBI Along the Different Ages of the Life***A. Chierogato***Post-Traumatic Hydrocephalus***Z. Czosnyka***Hydrodynamic Consequences after TBI***K. Fountas***Keynote Lecture: Inequalities of Care: are They a Destiny?***A. Maas***ADJOURN**

WFNS symposia

09:20 - 09:30 Welcome

09:30 - 10:40 Spinal Reconstruction

Chair: P. Ciappetta, M. Tomei, S. Tumbiolo

Cervical Spine Reconstruction

J. Zhong

CVJ Reconstruction in Trauma

M. Visocchi

Spinal Reconstruction in Elderly Patients

M. Zileli

Fiber-Tracking Reconstruction in SCI

G. Innocenzi

Lumbar Spinal Reconstruction in Trauma

A. Barbanera

3D Conduits for Neural Transdifferentiation and Stem Cell

Transplantation in Reconstruction in Spinal Cord Lesions

C. Steyn

10:40 - 12:20 CranioCerebral Reconstruction

Chair: G. Barbagallo, G. Nicoletti, A. Delitala

Modern Neurosurgical Techniques of Cranial Reconstruction

A. Olivi

Osteointegration in Cranial Reconstruction

R. Stefini

New Strategies for Diagnosis and Recovery

Monitoring of Brain Concussion

F. Pastore

Indications and Risks of Deep Brain Stimulation for

Persistent Vegetative State

M. Mehdorn

Ultrasound MR-Guided for the Treatment of

Post-Traumatic Tremor

G. Iacopino

Experience on Surgical Treatment for Post-Traumatic Epilepsy

G. Broggi

Vagal Nerve Stimulation in Post-Traumatic Epilepsy*A. Lavano, R. Marotta***Endoscopic Reconstruction of CSF Pathways in Hydrocephalus***P. Oppido***14:00 - 15:00 Innovations***Chair: D. Garbossa, F. Di Meco, F. De Ponte***Medtronic – Laser Interstitial Thermal Therapy: Basic Principles and Preliminary Experience***G. Cinalli***Integra – How Neuromonitoring Can Help to Decide on Decompressive Hemicraniectomy?***J.-F. Payen***AMS Group – New Frontiers in Cranioplasty****AS Medicali** *G. Ibrahim***15:00 - 16:40 Burning Questions in Reconstruction***Chair: J. Zhong, M. Mehdorn, R. De Falco***Education in Neurosurgery***F. Tomasello***Cranial Reconstruction Between Art and Principles***L. Santi***Endoscopy in Reconstructive Procedures***D. Locatelli***Cranioplasty: Timing and Materials***G.L. Zona***New Trends in CNS Stimulation***R. Ricciuti***Spinal Reconstruction after Trauma***P. Ciappetta***CBF Reconstruction in Post-Traumatic Hydrocephalus***C. Anile***New Technology in Cranioplasty: Titanium Electron Beam Melting (EBM) 3D Print***D. La Torre***Final Remarks***M. Visocchi, M. Mehdorn*

WFNS symposia

09:20 - 09:30 **Welcome**

09:30 - 10:30 **Session I**

Chair: C. Iaccarino, A. Buki

WFNS and Education in LMICs

F. Servadei

TBI CENTRE and International Collaboration

A. Maas

ICP Monitoring : What is a Dangerously High ICP?

N. Marklund

Neurotrauma in Developing Countries

T. Khan

10:30 - 11:30 **Session II**

Chair: F. Servadei, A. Maas

Decompressive Craniotomies Revisited

K. Fountas

Decompressive Craniotomies in LMICs

C. Iaccarino

Traumatic Brain Injuries in Hungary: Lessons Learned from Recent Studies

A. Buki

09:15 - 21:20 **Session III**

Chair: B. Splavski, N. Marklund

Spinal Trauma : A Third World Perspective

A. A. Shah

Posttraumatic Seizures

H. Mee

Significance of Cerebral Ventriculographic Biomarkers

B. Splavski

Presidents of the Congress

John T. Povlishock

Franco Servadei

Honorary Presidents

Tamas Doczi

Francesco Tomasello

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Andras Buki

Antonino Germanò

Niklas Marklund

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