



FONDAZIONE
INTERNAZIONALE
MENARINI



Under the Auspices of



Società di Anestesia e Rianimazione
Neonatale e Pediatrica Italiana



European Society of
Paediatric and Neonatal
Intensive Care



SOCIETÀ ITALIANA
NEUROCHIRURGIA



With the recognition of
SIAARTI

International symposium
and workshop on:

PEDIATRIC TRAUMATIC BRAIN INJURY

JANUARY 30TH-31ST, 2020
BERGAMO / BRESCIA, ITALY

ORGANIZING AND SCIENTIFIC COMMITTEE:

Barbui Tiziano

Biroli Francesco

FROM Fondazione per la Ricerca Ospedale di Bergamo

Citerio Giuseppe

Università degli Studi Milano-Bicocca

Bonanomi Ezio

Fazzi Francesco

Ferrari Floriana

Lorini F. Luca

Nacoti Mirco

Pellicoli Isabella

ASST Ospedale Papa Giovanni XXIII Bergamo, Italy

PROMOTED BY:

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App Fondazione Menarini

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ORGANIZING SECRETARIAT

SERVIZI C.E.C. SRL

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WELCOME LETTER

Traumatic brain injury (TBI) is the most important cause of disability for people younger than 45 years of age and a leading cause of acquired disability and death in children. Since 2012, the Lombardy region, one of the most populated in Italy with 10 million people, has recognized the Papa Giovanni XXIII Hospital in Bergamo as a third level treatment center for pediatric trauma. Seven years later, we decided to critically review our activity organizing a meeting with national and international leaders in this field. The congress was built with the mantra of multidisciplinary and will present four different sessions that should interest all the disciplines involved in pediatric TBI: epidemiology, management, outcome, organization models and perspective. We will present the new guidelines for pediatric TBI (III edition 2019), with the participation of the first author and an outcome session with discussion of two ongoing comparative effectiveness research studies: CreactKids and ADPAT. A final session will be organized to analyse different organization models of four reference centers and explore new idea with the aim to find area of improvement and collaboration.

Beside the congress two workshops will complete the program and will take place the day before the congress. The first, “Neurotrauma course: focus on pediatric TBI”, will take place in Brescia and will focus on the use of ultrasonic techniques in the pediatric and neurotraumatological field. The second, “Basics in pediatric brain ultrasound”, will take place in Bergamo and will focus on the first medical and surgical treatments in pediatric TBI. Both are enriched with practical and simulation sessions.

We strongly recommend this conference to all specialists involved in TBI management; we are sure you will enjoy your stay in the beautiful town of Bergamo.

Organizing and Scientific Committee

WORKSHOP



FONDAZIONE
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NEUROTRAUMA COURSE: FOCUS ON PEDIATRIC TBI

University of Medicine
Brescia, January 30th, 2020

With the support of



Global Neuro

Course Description

This course covers the current best strategies and considerations for managing neurotrauma patients.

The content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material. Interactive case presentations further deepen this knowledge and enrich the discussion in trauma management. Practical sessions teach the application of principles to the management of common injuries. Case-based discussions link the lecture material and practical skills with the clinical problems encountered in clinical practice.

The course has been developed for residents, intensivists, surgeons, and physicians who manage cranial neurotrauma.

Goal of the course

The course covers the theoretical basis and practical principles that are the foundation for managing cranial neurotrauma.

Course objectives

By completing the course, participants will be better able to:

- Perform an appropriate assessment of neurotrauma patients with application of relevant guidelines
- Choose the appropriate imaging modalities and interpret the results
- Perform ICP monitoring and interpretation to guide treatment interventions
- Manage cranial neurotrauma in adult, pediatric, and polytrauma patients
- Plan and perform the following operative techniques: burr hole, ICP monitor and EVD placement, decompressive craniotomy, dural enlargement, and basic cranioplasty
- Manage common complications, such as bleeding, expanding intracranial hematomas, swelling, infection, and hydrocephalus

Faculty

Course Directors

Fontanella Marco	ASST Spedali Civili University Hospital	Brescia, Italy
Iacoangeli Maurizio	Università Politecnica delle Marche	Ancona, Italy

Faculty

Bergomi Riccardo	ASST Spedali Civili University Hospital	Brescia, Italy
Bernucci Claudio	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Biroli Antonio	ASST Spedali Civili University Hospital	Brescia, Italy
Cenzato Marco	Niguarda Hospital	Milan, Italy
Figaji Anthony	University of Cape Town	Cape Town, South Africa
Matula Christian	Medical University of Vienna	Vienna, Austria
Servadei Franco	Humanitas University	Rozzano, MI, Italy
Kochanek Patrick M.	University of Pittsburgh School of Medicine	Pittsburgh, PA, USA
Giannini Alberto Michele	ASST Spedali Civili University Hospital	Brescia, Italy
Giussani Carlo Giorgio	San Gerardo Hospital	Monza, MI, Italy
Martorana Fabio	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Pinelli Lorenzo	ASST Spedali Civili University Hospital	Brescia, Italy
Piva Simone	ASST Spedali Civili University Hospital	Brescia, Italy

Thursday, January 30th, 2020 - Brescia, Italy

TIME	AGENDA ITEM	FACULTY
08.00- 08.15	Welcome	F. Biroli, L. Lorini
08.15- 08.30	Introduction and course objectives	M. Fontanella, M. Iacoangeli
Module 1 08.30 - 09.30	Basic of neurotrauma	Chair: C.G. Giussani
	The global burden of traumatic brain injury	C. Matula
	Pediatric TBI: pathophysiology, epidemiology	A. Figaji
	First aid and patient assessment	F. Martorana
Module 2 09.30 - 10.30	Diagnostic and monitoring	Chair: M. Cenzato
	Principles of diagnostic in pediatric TBI	L. Pinelli
	Monitoring: general	S. Piva
	Precision medicine in TBI	A. Figaji
10.30 - 10.45	PAUSE	
Module 3 10.45 - 12.00	Treatment (intensive, surgical)	Chair: M. Cenzato
	Intensive treatment following new guidelines	P. Kochanek
	Operative treatment	M. Fontanella
	Controversies about decompressive craniectomy	F. Servadei
	Cranioplasty complications	C. Bernucci
12.00 - 13.00	LUNCH	
13.00 - 14.00	CASE DISCUSSION IN SMALL GROUP PRESENTED BY FACULTY	A. Biroli, C.G. Giussani, M. Iacoangeli
Module 4 14.00 - 15.30	Hot topics	Chair: C.G. Giussani
	Hydrocephalus' CSF circulation disturbances	M. Iacoangeli
	Cervical spine trauma and pediatric TBI	R. Bergomi
	The open pediatric ICU	M.A. Giannini
	Outcomes in pediatric TBI	A. Biroli
	Biomarkers in pediatric TBI as outcome predictors	P. Kochanek
	Educational programs: present and future	C. Matula

TIME	AGENDA ITEM	FACULTY
15.30 - 16.30	CASE DISCUSSION IN SMALL GROUP PRESENTED BY PARTICIPANTS	A. Biroli, C.G. Giussani, M. Iacoangeli
16.30 - 18.00	PRACTICAL EXERCISES - Decompressive craniectomy on plastic model - Multimodal monitoring and EVD placement - Optic Nerve Sheath Ultrasound	All faculty
18.00 - 18.30	EVALUATION AND CLOSING OF THE COURSE	M. Fontanella, M. Iacoangeli

General Information

Venue

University of Medicine - Viale Europa 11 - Brescia, Italy

Secretariat Opening Hours

From 7:30 a.m. to 6:30 p.m.

Official Language

The official language of the course will be English, no simultaneous translation will be provided

Slide Centre Opening Hours

From 7:30 a.m. to 6:30 p.m.

Lunch and Coffee Break

Lunch and coffee break will be served in the course area, free of charge

Practical exercise organisation

Global Neuro Foundation

Activity organizer: Ximena Rodriguez

Phone: +1 321-732-2199

Email: Ximena.rodriguez@globalneuro.org

A special thanks to Integra and DePuy Synthes for contributing in-kind support (material and logistics)



WORKSHOP



FONDAZIONE
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BASICS IN PEDIATRIC BRAIN ULTRASOUND

ASST Ospedale Papa Giovanni XXIII
Anesthesia and Intensive
Care Department
Bergamo, January 30th, 2020

Course Description

This course provides a basic overview of the use of ultrasound in the neonatology and neurotraumatology field. Content is developed using multiple methods. Lectures will be alternated with practical sessions in which it will be possible to become familiar with the techniques and equipment. The practical sessions will be held in the classroom during the morning while in the afternoon the students will be divided into small groups and taken to view examinations performed on children in neonatal and pediatric intensive care.

This course has been developed for residents and physicians who manage pediatric TBI and are interested in the use of ultrasound in clinical practice.

Goal

This course covers the theoretical bases and practical principles underlying the ultrasound examination of the children's head with a focus on neurotrauma.

Course objectives

By completing the essential course, participants will:

- know to perform a basic transcranial Doppler exam
- know the standard projections of a transfontanellar ultrasound examination
- know the scope and current diagnostic limits of ultrasound in the field of pediatric neurotrauma

Faculty

Bonanomi Ezio	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Corbella Davide	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Fazzi Francesco	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Gritti Paolo	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Martinelli Daniele	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy
Poggiani Carlo	ASST Ospedale Papa Giovanni XXIII	Bergamo, Italy

Thursday, January 30th - 2020 - Bergamo, Italy

TIME	AGENDA ITEM	FACULTY
08.30 - 08.40	Introduction to course, presentation of participants and faculty	Chair: E. Bonanomi
08.40 - 09.10	Brain ultrasonography in neurocritical care	P. Gritti
09.10 - 09.30	Basics in transcranial brain ultrasound: technique and equipment, anatomy, Doppler	D. Corbella
09.30 - 10.30	Practice in classroom	
10.30 - 11.00	COFFEE BREAK	
11.00 - 11.30	Basics in transcranial brain ultrasound: standard views and normal exam	C. Poggiani
11.30 - 11.45	Transcranial brain ultrasound: indications in critically newborn	D. Martinelli
11.45 - 12.10	Ultrasound in pediatric neurotrauma: clinical evidence and opportunities	F. Fazzi
12.10 - 12.30	Question time	
12.30 - 13.45	LUNCH	
13.45 - 15.45	Practice in NICU, PICU e neuroICU	
15.45 - 16.15	Clinical scenario and question time	

General Information

Venue

ASST Ospedale Papa Giovanni XXIII
Resegone Room - Tower 5 - Floor 2
Anesthesia and Intensive Care Department
P.le OMS 1 - Bergamo, Italy

Secretariat Opening Hours

From 7:30 a.m. to 4:00 p.m.

Official Language

The official language of the Meeting will be Italian

Slide Centre Opening Hours

From 7:30 a.m. to 4:00 p.m.

Lunch and Coffee Break

Lunch and coffee break will be served in the course area, free of charge

Registration

The course is free to attend but registration is mandatory, no later than January 22nd, on the website: www.en.fondazione-menarini.it or App Fondazione Menarini.

INTERNATIONAL SYMPOSIUM ON:



FONDAZIONE
INTERNAZIONALE
MENARINI



Fondazione
per la Ricerca
Ospedale
di Bergamo

PEDIATRIC TRAUMATIC BRAIN INJURY

2019 Update guidelines management
and clinical experience

ASST Ospedale Papa Giovanni XXIII
Auditorium Lucio Parenzan
Bergamo, January 31st, 2020

Friday, January 31st, 2020 - Morning

07.30 08.00	Registration and coffee
08.00 08.20	<p>INTRODUCTION</p> <p>T. Barbui (Bergamo, IT) Scientific Director FROM Foundation</p> <p>Welcome from the Authority</p> <p>M.B. Stasi (Bergamo, IT) General Manager ASST Ospedale Papa Giovanni XXIII</p> <p>A. Bombassei (Bergamo, IT) President FROM Foundation</p> <p>D. De Luca (Paris, FR) Medical President-Elect ESPNIC</p> <p>P. Donda (Florence, IT) Fondazione Internazionale Menarini</p>

SESSION I - EPIDEMIOLOGY OF PEDIATRIC TBI

Chairpersons:	M. Fontanella (Brescia, IT), L. Longhi (Bergamo, IT), E. Calderini (Milan, IT)
08.20 08.35	L. Lorini (Bergamo, IT) Presentation of the day, TBI global view
08.35 08.50	I. Pelliccioli (Bergamo, IT) Bergamo, III level pediatric trauma center: 7 years' experience
08.50 09.00	A. Gabrieli (Trento, IT) Helicopter emergency transport for pediatric TBI in Italy
09.00 09.15	O. Chiara (Milan, IT) Epidemiology of pediatric TBI in Lombardia
09.15 09.30	Discussion

SESSION II - UPDATE FOR THE MANAGEMENT OF PEDIATRIC TBI

INTERVIEW AND DISCUSSION WITH THE FIRST AUTHOR

09.30 10.15	P. Kochanek (Pittsburgh, PA, USA) III edition of the guidelines for severe TBI M. Nacoti (Bergamo, IT), L. Bussolin (Florence, IT), F. Ferrari (Bergamo, IT)
Chairpersons:	C. Bernucci (Bergamo, IT), A. Moscatelli (Genoa, IT), S. Gerevini (Bergamo, IT)
10.15 10.35	A. Figaji (Cape Town, ZA) What is advanced neuromonitoring in pediatric TBI and what is useful?
10.35 10.50	<i>Coffee break</i>
10.50 11.10	S. Bressan (Padua, IT) Management of pediatric TBI in the emergency department
11.10 11.30	O. Manara (Bergamo, IT) Radiology and pediatric TBI: the role of MRI
11.30 11.50	C. Foresti (Bergamo, IT) The neurophysiologist perspective: cEEG and evoked potentials
11.50 12.05	Discussion
12.05 12.25	F. Servadei (Rozzano, MI, IT) Decompressive craniectomy in pediatric TBI: when, how and complications
Chairpersons:	C. Bernucci (Bergamo, IT), F. Biroli (Bergamo, IT), F. Servadei (Rozzano, MI, IT)
12.25 13.00	ROUND TABLE A. Figaji (Cape Town, ZA), G. Piatelli (Genoa, IT), M. Sicignano (Bergamo, IT), M. Iacoangeli (Ancona, IT) Cranioplasty: when, how and complications
13.00 14.00	<i>Lunch</i>

Friday, January 31st, 2020 - Afternoon

SESSION III - SHORT AND LONG TERM OUT COME

14.00 14.20	L. Manzotti, E. Bonanomi (Bergamo, IT), C. Zucchinali (Bergamo, IT) Family centered-care: talking with nurse and dad
Chairpersons:	F. Biroli (Bergamo, IT), P. Stoppa (Bergamo, IT), M. Sessa (Bergamo, IT)
14.20 14.35	G. Bertolini (Ranica, BG, IT) CreactKids Study: methods and epidemiological results
14.35 14.55	I. Lazar (Be'er Sheva, IL) CreactKids Study: outcome assessment in pediatric TBI patients
14.55 15.15	P. Kochanek (Pittsburgh, PA, USA) ADAPT study: methods and preliminary results
15.15 15.35	S. Strazzer (Bosisio Parini, LC, IT) Long term outcome: epidemiology, assessment, rehabilitation programs and new concept
15.35 15.50	Discussion

SESSION IV - ROUND TABLE: ORGANISATION MODELS AND PERSPECTIVES

Chairpersons:	G. Citerio (Milan, IT) D. De Luca (Paris, FR)
15.50 16.35	I. Lazar (Be'er Sheva, IL), P. Kochanek (Pittsburgh, PA, USA), A. Figaji (Cape Town, ZA) L. Bussolin (Florence, IT) Organisation model for pediatric TBI management. Prehospital, ER, monitoring, family management, rehabilitation time: good and missing in four reference centers
16.35 16.55	Discussion
16.55 17.40	EDITORS FACE TO FACE ABOUT PEDIATRIC TBI RESEARCH P. Kochanek (Pittsburgh, PA, USA) Novel concepts, therapies and idea beyond the guidelines G. Citerio (Milan, IT) Missing in pediatric area and lessons from adult TBI research
17.40 17.55	C. Matula (Vienna, AU) Education in neurotrauma
17.55 18.15	E. Bonanomi (Bergamo, IT) Conclusion remarks and closure of the meeting

FACULTY LIST

Barbui Tiziano

FROM Fondazione per la Ricerca Ospedale di Bergamo
Bergamo, Italy

Bernucci Claudio

ASST Ospedale Papa Giovanni XXIII
Bergamo, Italy

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Calderini Edoardo

Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico
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Paris, France

Ferrari Floriana

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Bergamo, Italy

Figaji Anthony

University of Cape Town

Cape Town, South Africa

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Ancona, Italy

Lazar Isaac

Soroka University Medical Center

Be'er Sheva, Israel

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Sessa Maria

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Sicignano Mirco

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Stoppa Patrizia Maria Carla

ASST Ospedale Papa Giovanni XXIII
Bergamo, Italy

Strazzer Sandra

Pediatric Neurorehabilitation Center
Bosisio Parini (LC), Italy

Zucchinali Claudia

ASST Ospedale Papa Giovanni XXIII
Bergamo, Italy

GENERAL INFORMATION

VENUE

ASST Ospedale Papa Giovanni XXIII

Auditorium Lucio Parezan
P.le OMS 1 - Bergamo, Italy

SECRETARIAT DURING THE MEETING

The Secretariat will be open from 07:30 a.m. to 6:00 p.m.

OFFICIAL LANGUAGE

The official language of the Meeting will be Italian. Simultaneous translation will be provided

REGISTRATION

The Meeting is free to attend but registration is mandatory, no later than January 22nd, on the website: www.en.fondazione-menarini.it or App Fondazione Menarini.

TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections. A Slide Centre with PCs (Windows and Macintosh operating systems) will be available for Speakers to preview and finalize their presentations. Speakers are kindly requested to submit their presentations to the Slide Centre technicians at least one hour before their talks.

SLIDE CENTRE OPENING HOURS

Friday, January 31st, from 07:30 a.m. to 6:00 p.m.

LUNCH AND COFFEE BREAK

Lunche and coffee break will be served in the Meeting area, free of charge

Fondazione Internazionale Menarini Symposium n: 441



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FONDAZIONE INTERNAZIONALE MENARINI
SYMPOSIA: N. 441