INTERNATIONAL NEUROVASCULAR TRAINING COURSE ON SICKLE CELL DISEASE

March 30-31
2023

Botanical Garden
Via Orto Botanico 15
Padua, Italy

INTERNATIONAL NEUROVASCULAR TRAINING COURSE ON SICKLE CELL DISEASE

Dear colleagues,
we are pleased to announce that an International Neurovascular Training Course on Sickle Cell Disease will take place in Padua, on March 30-31, 2023.
Sickle cell disease (SCD) is one of the world's most prevalent genetic diseases, and due to the impact on the geographical distribution of the HbS allele, SCD has become a global public health issue. Children with SCD frequently harbor steno-occlusive lesions in large cerebral arteries and microangiopathic lesions, causing ischemic stroke and silent infarcts that impact on neurocognitive development and quality of life. Transcranial Doppler sonography (TCD) is the gold standard to assess blood flow velocities in the vessels of the Circle of Willis in SCD patients and predict the risk of stroke. Hence, TCD is highly recommended as a routine screening tool to guide treatment: exchange transfusions, hydroxyurea, allogeneic hematopoietic stem cell transplant, recently approved drugs and new therapeutic options (gene therapy, gene editing). Yet, access to TCD services remains a challenge, not only due to funding, but also due to a lack of skills and knowledge, particularly with respect to adequately trained TCD operators. For this reason, education must be intensified: this International Neurovascular Training Course on SCD will feature state-of-the-art presentations, combined with intensive transcranial ultrasound workshops and clinical case-based discussion. We do hope that by sharing knowledge and experience, all participants will ultimately bring a benefit to their SCD communities.
We look forward to welcoming you in the beautiful botanical garden of Padua.

Raffaella Colombatti **Claudio Baracchini**

Scientific Directors

Prof. Claudio Baracchini MD, PhD, FESO
Head of Stroke Unit and Neurosonology Lab
Past President of the ESNCH
(European Society of Neurosonology and Cerebral Hemodynamics)
Past President of the SINSEC
(Italian Society of Neurosonology and Cerebral Hemodynamics)
University of Padua School of Medicine

Prof. Raffaella Colombatti
Pediatric Hematology Oncology Unit
AIEOP Red Cell Disorder Working Group Coordinator
ERN-EuroBloodNet Cross Border Health Care Coordinator
Azienda Ospedale Università di Padova

Target Audience

Medical Doctors specializing in:
Pediatrics, Neurology, Hematology, Neuroradiology
Residents and Fellows in all related fields

16
ECM points for Italian MD

Faculty

Barbara Arfe'	*Italy*
Andrew Arnold	*UK*
Claudio Baracchini	*Italy*
Pablo Bartolucci	*France*
Bart Biemond	*Netherlands*
Valentine Brousse	*France*
Holger Cario	*Germany*
David Calvet	*France*
Maddalena Casale	*Italy*
Raffaella Colombatti	*Italy*
Fenella Kirkham	*UK*
Stephan Lobitz	*Germany*
Wolfgang Loichinger	*Germany*
Branko Malojcic	*Croatia*
Renzo Manara	*Italy*
Mar Mañú-Pereira	*Spain*
Stefano Mozzetta	*Italy*
Soundrie Padayachee	*UK*
Alessio Pieroni	*Italy*
Nicholas Thomas	*UK*
Suzanne Verlhac	*France*
Federica Viaro	*Italy*

30
March
Thursday

8.00 Registration of Participants

8.45 Greetings

Morning - 9.00-13.00

Chairs:
C. Baracchini, R. Colombatti - Italy

9.00 **Welcome and Introduction: Training Course Presentation**
C. Baracchini, R. Colombatti - Italy

9.10 **Sickle Cell Disease: where are we now?**
R. Colombatti - Italy
20'+ Q&A 10'

9.40 **Cerebral Vasculopathy in children: an overview**
V. Brousse - France
20'+ Q&A 10'

10.10 **Large vessel vasculopathy and Transcranial Ultrasound**
C. Baracchini - Italy
20'+ Q&A 10'

10.40 ***Coffee Break***

11.00 **How to organize TCD screening for your patients: examples of programs and referrals**

NHS SCD TCD Program
S. Padayachee - UK
20' + Q&A 5'

The German experience
S. Lobitz, W. Loichinger - Germany
20' + Q&A 5'

Training and Education in Clinical Trials Worldwide
F. Kirkham - UK
20' + Q&A 5'

12.15 **Should we screen young adults and adults with TCD? Evidence from real-world cohorts**
P. Bartolucci, D. Calvet - France
30'+ Q&A 15'

13.00 ***Lunch***

Afternoon - 14.00-18.30

14.00 **PRACTICAL SESSIONS**
TCD/TCCD workstations
With experts from **Italy:** **C. Baracchini, S. Mozzetta, A. Pieroni, F. Viaro;**
UK: **A. Arnold, F. Kirkham, S. Padayachee, N. Thomas;** **France:** **S. Verlhac;**
Germany: **W. Loichinger**

SCD Protocol: healthy subjects

TCD/TCCD screening of children with SCD

16.15 **ERN-Eurobloodnet Clinical case discussions**

Chairpersons:
H. Cario - Germany, **M. Casale** - Italy

Selected clinical cases sent by participants *

General discussion

** Clinical Cases regarding TCD/TCCD and MRI/MRA can be submitted to the following email: SCDclinicalcase@drepanocitosi.it*

The most significant cases will be selected for presentation during the ERN-EuroBloodNet Clinical Case Discussion. Instructions to follow

31
March
Friday

Morning - 9.00-13.10

Chairs:
S. Lobitz - Germany, **S. Padayachee** - UK

9.00 **The use of MRI/MRA in children: when, how, for what? Standardizing MRI protocols**
R. Manara - Italy
20'+ Q&A 10'

9.30 **Monitoring cerebrovascular damage throughout the patient's lifespan**
B. Biemond - Netherlands
20'+ Q&A 10'

10.00 **Neurocognitive complications and evaluation**
B. Arfè - Italy
20'+ Q&A 10'

10.30 *Coffee Break*

10.50 **Integrating Neuroimaging and Neurophysiology in SCD**
F. Kirkham - UK
20' + Q&A 10'

11.20 **European Collaborative Projects for Radiomics in SCD: Genomed4all and Synthema**
R. Colombatti, R. Manara - Italy
M. Mañú-Pereira - Spain
45'+ Q&A 10'

12.15 **ESNCH Neurosonology Survey in Europe**
C. Baracchini - Italy
20'+ Q&A 5'

12.40 **A European Certification in Neurosonology**
B. Malojcic - Croatia
20'+ Q&A 10'

13.10 *Lunch*

Afternoon - 14.00-18.00

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UK: **A. Arnold, F. Kirkham, S. Padayachee, N. Thomas;** **France**: **S. Verlhac;**
Germany: **W. Loichinger**
SCD Protocol: healthy subjects
TCD/TCCD screening of children with SCD

17.00 **Feedback and competency requirement summary**
B. Malojcic - Croatia
S. Padayachee - UK

18.00 **Closing Remarks**

Endorsed by

Con il patrocinio del

Comune di Padova

Università degli Studi di Padova

Regione del Veneto
Azienda Ospedale Università Padova

European Society of Neurosonology and Cerebral Hemodynamics

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Network Hematological Diseases (ERN EuroBloddNet)

AIEOP
Associazione Italiana Ematologia Oncologia Pediatrica

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Organizing Secretariat

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REGISTRATION

Participation to the Training Course:
a maximum of 100 participants will be accepted.

Registration fee: 400 euros+VAT.
It includes access to all scientific and practical sessions, coffee breaks, 2 lunches, 1 dinner and a Certificate of Participation.

Please register by March 1st in order to assure you a place in the Scientific Course, the Organizing Secretariat will send an email with the payment details. Registration will only be valid upon receipt of the full payment.