



EUROPEAN SOCIETY OF NEURORADIOLOGY
DIAGNOSTIC AND INTERVENTIONAL



Hybrid Meeting

European Pediatric Neuroradiology Congress

13-16 November 2024
Budapest, Hungary



PROGRAM BOOK

Jointly organized by



WELCOME ADDRESS

Dear Colleagues,

We are delighted to announce a groundbreaking collaboration between the European Society of Neuroradiology (ESNR) and the European Society of Pediatric Radiology (ESPR), in partnership with the Hungarian Society of Neuroradiology and the Pediatric Section of the Hungarian Society of Radiology, to organize the exceptional 1st European Pediatric Neuroradiology Congress!

Taking place in the beautiful city of Budapest, Hungary, this eagerly anticipated event will be held from November 13th to November 16th, 2024. With a focus on advancing knowledge and expertise in pediatric neuroradiology, this congress promises to be a momentous occasion for both societies.

The congress will feature a comprehensive program, including a full-day course on fetal imaging, providing invaluable insights and updates in this rapidly evolving field. Additionally, the main congress will span two and a half days, offering educational sessions on hot topics, as well as opportunities for scientific paper presentations.

One of the highlights of the congress will be the special tribute to the late Dr. Zoltan Patay, a distinguished pediatric neuroradiologist from Hungary, who left an indelible mark on the field. Through honoring and celebrating his legacy, we aim to inspire future generations of pediatric neuroradiologists to continue his important work.

Furthermore, we are proud to announce that podium time will be dedicated to junior members from both ESNR and ESPR, providing a platform for them to share their research and perspectives with the wider community.

This congress is designed to cater to the educational needs of residents, fully trained pediatric radiologists and neuroradiologists, as well as general radiologists seeking to expand their knowledge in pediatric neuroradiology. It will serve as an invaluable opportunity for networking, learning, and collaboration among colleagues from across Europe and beyond.

We eagerly anticipate your participation in this landmark event, where we will come together to celebrate the advancements and innovations in pediatric neuroradiology.

We look forward to meeting you in Budapest!

Maria Argyropoulou and Andrea Rossi

European Pediatric Neuroradiology Congress (EPNC)

Co-Presidents



SCIENTIFIC PROGRAM - Fetal Course

13 November 2024, Wednesday

08:45-09:00

Welcome remarks

Chen Hoffmann/IL

09:00-10:45

Session 1 - Brain anatomy and biometry

Moderator: Nadine Girard/FR

09:00-09:20

Guidelines for fetal neurosonography and normal brain anatomy in the second and third trimester

Eran Kassif/IL

09:20-09:40

Guidelines for fetal brain MRI: Sequences and tips for better imaging

Georgia Papaioannou/GR

09:40-10:00

The changing brain anatomy- normal brain development

Nadine Girard/FR

10:00-10:20

Diagnostic approach to small head biometry

Gabrielle Colleran/IE

10:20-10:40

Diagnostic approach to ventriculomegaly and CSF space disorders

Eleonore Blondiaux/FR

10:45-11:15

Coffee Break

11:15-13:20

Session 2 - Cortical malformations and disruptive lesions

Moderator: Mariasavina Severino/IT

11:15-11:35

Definitions and classification of malformation of cortical development
– New concepts and prenatal application

Mariasavina Severino/IT

11:35-11:55

Disruptive malformations of the fetal brain – the role of the placenta

Monica Rebollo Polo/CH

11:55-12:15

Imaging features in fetal brain infection and outcome prediction

Chiara Doneda/IT

12:15-12:35

Fetal IVH – time for a dedicated classification system

Efrat Hadi/IL

12:35-12:55

Monochorionic twins complications

Chen Hoffmann/IL

12:55-13:15

Fetal neurology - the way to consult the parents

Tally Lerman Sagie/IL

13:20 14:30

Lunch Break

SCIENTIFIC PROGRAM - Fetal Course

14:30-16:10 Session 3 - Midline malformations and extra-CNS abnormalities

Moderator: Orit Glenn/US

- 14:30-14:50 "Isolated" dysgenesis of the corpus callosum - from diagnosis to prognosis
Cesar Alves/US
- 14:50-15:10 Cystic malformations of the posterior fossa - new concepts
Andrea Righini/IT
- 15:10-15:30 Spinal cord malformations
Andrea Rossi/IT
- 15:30-15:50 Extra-CNS abnormalities: what you cannot miss
Marie Cassart/BE
- 15:50-16:10 Brain tumors in the 3rd trimester
Orit Glenn/US

16:10-16:40 Coffee Break

16:40-18:00 Session 4 - Advances in brain imaging

Moderator: Thierry Huisman/US

- 16:40-17:00 Diffusion tensor imaging in the assessment of fetal brain - the future
Gregor Kasprian/AT
- 17:00-17:20 Ex-vivo 3D fetal ultrasound and comparison with embryology and micro-CT
Harsha Shah/UK
- 17:20-17:40 Advances in PM evaluation (PM-MRI, CT)
Giana Izzo/IT
- 17:40-18:00 The future of fetal imaging
Thierry Huisman/US

SCIENTIFIC PROGRAM CONGRESS

14 November 2024, Thursday

08:20-09:10 Early morning cases - day 1

Thierry Huisman/US

09:15-09:30 Welcome remarks

Maria Argyropoulou, ESPR & Andrea Rossi,ESNR

09:30-10:30 ZOLTAN PATAY LECTURE

Moderators: Maria Argyropoulou, ESPR & Andrea Rossi,ESNR

09:30-09:45 Introductory remarks

09:45-10:30 Brainstem! Brainstem! An update on DIPG and DMG

Ulrike Löbel/UK

11:00-12:45 SESSION 1 - Stroke

Moderator: Gyorgy Balazs/HU

11:00-11:20 The clinical landscape of arterial ischemic stroke:
how to improve early diagnosis - Pediatric Neuro
Ilona Kopyta/PL

11:20-11:40 Mismatch: how to identify salvageable tissue in kids
Jean-Francois Hak/FR

11:40-12:00 Vessel wall imaging in pediatric vasculopathies: a holy grail?
Mariasavina Severino/IT

12:00-12:20 Dilemmas and Controversies in pediatric stroke interventions
Istvan Szikora/HU

12:20-12:30 Quiz case challenge - vascular imaging
Savvas Andronikou/GR

12:30-14:00 Lunch Break

14:00-14:30 Keynote Lecture 1

Moderator: Linda Meiners/NL

CNS Inflammatory demyelinating diseases - DUET

Chen Hoffmann/IL & Kevin Rostasy/DE

14:30-16:00 Oral Presentations - Metabolic and Autoimmune

Moderator: Chen Hoffmann/IL

14:30-14:39 Do neuroimaging findings help differentiate primary mitochondrial
disorders from hypoxic-ischemic injury in neonates and young infants?

Sara Reis Teixeira

SCIENTIFIC PROGRAM CONGRESS

- 14:39-14:48 Novel MRI findings in 18 patients with Canavan disease: new insights into the areas of selective susceptibility
[Elham Rahimian](#)
- 14:48-14:57 Multiple mitochondrial dysfunction syndrome type 3: not merely cavitating leukoencephalopathy-a case report
[Adriana Cristofano](#)
- 14:57-15:06 Neuroradiological findings in children with methylmalonic aciduria in the screening era: a single-center case series
[Guido Del Vecchio](#)
- 15:06 15:15 Leukodystrophies in the era of genomics: experience from a tertiary pediatric center in Qatar
[Marwa Al Subhi](#)
- 15:15 15:24 Ectopic white matter tracts in muscle-eye-brain disease: Implications of POMGNT1 and POMGNT2 Mutations
[Filippo Arrigoni](#)
- 15:24-15:33 Single large scale mitochondrial deletion syndromes: neuroimaging phenotypes and longitudinal progression in pediatric patients
[Maria Camilla Rossi Espagnet](#)
- 15:33-15:42 Imaging findings and genetics of mitochondrial diseases in a tertiary brazilian center
[Leandro Tavares Lucato](#)
- 15:42-15:51 Isolated intracranial hypertension as onset of myelin oligodendrocyte glycoprotein antibody disease
[Francesco Dellepiane](#)
- 15:51-16:00 Hemolytic-uremic syndrome with cns involvement in pediatrics: correlation between MRI findings and neurological outcome
[Alessandro Di Paola](#)
- 16:00 16:30 **Coffee Break**

16:30-18:00 **SESSION 2 - Epilepsy** **Moderator: Peter Barsi/HU**

- 16:30-16:50 Identifying the epileptogenic zone: EEG for dummies
[Jasna Orazem Mrak/SI](#)
- 16:50-17:10 Practical epilepsy imaging in children: what you cannot miss
[Peter Barsi/HU](#)
- 17:10-17:30 Looking for the epileptogenic zone: beyond the visible?
[Nathalie Boddaert/FR](#)
- 17:30-17:50 MRI-based surgical planning: a nerd's paradise
[Domenico Tortora/IT](#)
- 17:50-18:00 Quiz case challenge
[Bianka Forgo/SE](#)

SCIENTIFIC PROGRAM CONGRESS

15 November 2024, Friday

08:00-08:50 **Early morning cases - day 2**
Luciana Porto/DE

09:00-10:30 **SESSION 3 - Advanced Imaging modalities**
Moderator: Volodia Dangouloff-Ros/FR

09:00-09:20 ASL: always your best friend?
Volodia Dangouloff-Ros/FR

09:20-09:40 Multishell diffusion
Filippo Arrigoni/IT

09:40-10:00 QSM: beware of darkness
Jan Sedlacik/UK

10:00-10:20 The connectome: more than hubs and spokes
Maria Argyropoulou/GR

10:20-10:30 Quiz case challenge
Leandro Lucato/BR

10:30-11:00 Coffee Break

11:00-12:45 **SESSION 4 - Skull base/pituitary/inner ear**
Moderator: Eva Kovacs/HU

11:00-11:20 Imaging of pediatric skull base pathologies
Peter Varallyay/HU

11:20-11:40 Rare syndromes with hypothalamic-pituitary involvement
Lorenzo Pinelli/IT

11:40-12:00 SHNL: have you heard the news?
Felice D'Arco/UK

12:00-12:20 The oral cavity
Elida Vazquez/ES

12:20-12:40 Lumps and bumps in the pediatric neck
Alexandra Ntorkou/FR

12:50-13:20 **Industry Sponsored Symposium**

13:20-14:15 Lunch Break

SCIENTIFIC PROGRAM CONGRESS

- 14:15-14:45 **Keynote Lecture 2**
Moderator: [Bianka Forgo/SE](#)
The pediatric orbit: more than meets the eye
[Nora Nyilas/HU](#)
- 14:45-16:15 **Oral Presentations - Vascular and Tumours**
Moderator: [Savvas Andronikou/GR](#)
- 14:45-14:54 Reversibility of venous sinus stenosis in pediatric intracranial hypertension: evidence of its dynamic nature
[Ines Solis](#)
- 14:54 - 15:03 Unusual MRI patterns of perinatal hypoxic ischemic injury in term neonates
[Heena Rajani](#)
- 15:03-15:12 Imaging of pediatric CNS vasculopathy: many faces of stroke
[Seda Kaynak](#)
- 15:12-15:21 Diffusion weighted magnetic resonance imaging for predicting early language delay in HIE infants
[Andrea Lakatos](#)
- 15:21-15:30 Obstructive hydrocephalus due to developmental venous anomalies: a pediatric imaging case series
[Livja Mertiri](#)
- 15:30-15:39 Genetic causes of pediatric stroke and arteriopathies
[Khuld Saeed](#)
- 15:39-15:48 Patterns of neonatal acute ischemic stroke
[Vivek Pai](#)
- 15:48-15:57 Neuroimaging of the diffuse astrocytomas, MYB or MYBL1-altered: a multicenter analysis
[Fiorenza Coppola](#)
- 15:57-16:06 Fractal analysis of pediatric cerebellar tumors
[Peter Varallyay](#)
- 16:06-16:15 MRI features of paediatric thalamic tumours: a predictive MR phenotype
[Pritika Gaur](#)
- 16:15-16:45 **Coffee Break**

SCIENTIFIC PROGRAM CONGRESS

16:45-18:15 SESSION 5 - Malformations

Moderator: Bruno Soares/US

- 16:45-17:05 Genetic syndromes: recognizable MRI patterns
Ana Filipa Geraldo/PT
- 17:05-17:25 Focus on the brainstem: dysplasia and beyond
Andrea Rossi/IT
- 17:25-17:45 Focus on the basal ganglia: symmetry is not all
Jehan AlRayahi/QA
- 17:45-18:05 Focus on the midline: to fuse or not to fuse?
Bruno Soares/US
- 18:05-18:15 Quiz case challenge
Angel Sanchez/ES

16 November 2024, Saturday

08:00-08:50 Early morning cases - day 3

Zoran Rumboldt/HR

09:00-10:30 Oral Presentations - Fetal, Head and Neck, Miscellaneous

Moderator: Zoran Rumboldt/HR

- 09:00-09:09 Sexual dimorphism of the fetal brain biometry: an MRI-based study
Michal Gafner
- 09:09-09:18 Pattern recognition of fetal lateral ventricular border irregularities: etiologies and clinical significance
Efrat Hadi
- 09:18-09:27 Automated motion correction of anatomical and diffusion weighted images in fetal MRI with tractography
Michael Aertsen
- 09:27-09:36 Imaging findings of incomplete partition type II; a multicentre international study
Sedat Kandemirli
- 09:36-09:45 Syndromic hearing loss in children - a pictorial review
Shreyansh Makhanasa
- 09:45-09:54 Developmental timeline of the synchondroses and foramina in the sphenoid body on ct
Carmen Cerron Vela

SCIENTIFIC PROGRAM CONGRESS

09:54-10:03	The value of “black-bone” mri in pediatric spondylolysis: impact on diagnostic confidence according to reader experience Francesco Pacchiano
10:03-10:12	Narrative review of advanced MRI imaging in paediatric focal epilepsy: an update. Arunthathi Pushparajasekaran
10:12 - 10:21	Non-traumatic lesions of the pediatric anterior visual pathway. Razan Alamoudin
10:30-11:00	Coffee Break
11:00-12:30	SESSION 6 - Neonatal imaging Moderator: Maria Argyropoulou/GR
11:00-11:20	Neonatal ultrasound for dummies Vasileios Xydis/GR
11:20-11:40	Predicting the prognosis in birth asphyxia: more than the PLIC Maud Tijssen/NL
11:40-12:00	Neonatal seizures: the tip of the iceberg Jordi Muchart/ES
12:00-12:20	The metabolic newborn: patterns Charles-Joris Roux/FR
12:20-12:30	Quiz case challenge Cesar Alves/US
12:30-12:45	Closing Remarks

FACULTY LIST

Jehan AlRayahi, Qatar

Cesar Alves, United States

Savvas Andronikou, Greece

Maria Argyropoulou, Greece

Filippo Arrigoni, Italy

Gyorgy Balazs, Hungary

Peter Barsi, Hungary

Eleonore Blondiaux, France

Nathalie Boddaert, France

Marie Cassart, Belgium

Gabrielle Colleran, Ireland

Volodia Dangouloff-Ros, France

Felice D'Arco, United Kingdom

Chiara Doneda, Italy

Bianka Forgo, Sweden

Ana Filipa Geraldo, Portugal

Nadine Girard, France

Orit Glenn, United States

Efrat Hadi, Israel

Jean-François Hak, France

Chen Hoffmann, Israel

Thierry Huisman, United States

Giana Izzo, Italy

Gregor Kasprian, Austria

Eran Kassif, Israel

Ilona Kopyta, Poland

Eva Kovacs, Hungary

Ulrike Löbel, United Kingdom

Leandro Lucato, Brazil

Linda Meiners, The Netherlands

Jordi Muchart, Spain

Alexandra Ntorkou, France

Nora Nyilas, Hungary

Jasna Orazem Mrak, Slovenia

Georgia Papaioannou, Greece

Lorenzo Pinelli, Italy

Luciana Porto, Germany

Monica Rebollo Polo, Switzerland

Andrea Righini, Italy

Andrea Rossi, Italy

Kevin Rostasy, Germany

Charles-Joris Roux, France

Zoran Rumboldt, Croatia

Tally Lerman Sagie, Israel

Angel Sanchez, Spain

Jan Sedlacik, United Kingdom

Mariasavina Severino, Italy

Harsha Shah, United Kingdom

Bruno Soares, United States

Istvan Szikora, Hungary

Maud Tijssen, The Netherlands

Domenico Tortora, Italy

Peter Varallyay, Hungary

Elida Vazquez, Spain

Vasileios Xydis, Greece

GENERAL INFORMATION

Venue

Radisson Blu Béke Hotel
Budapest, Teréz krt. 43, 1067 Hungary

Registration Desk Working Hours

Tuesday, 12th November: 15:00-19:00
Wednesday, 13th November: 07:30-18:00
Thursday, 14th November: 07:30 - 18:00
Friday, 15th November: 07:30 - 18:00
Saturday, 16th November: 07:30 - 12:00

Official Language

English is the official language of the Meeting.
Simultaneous translation will not be provided.

Certificate of Attendance

You will receive an email with instructions on how to download the certificate.
Please contact meetings@esnr.org if you require further assistance.

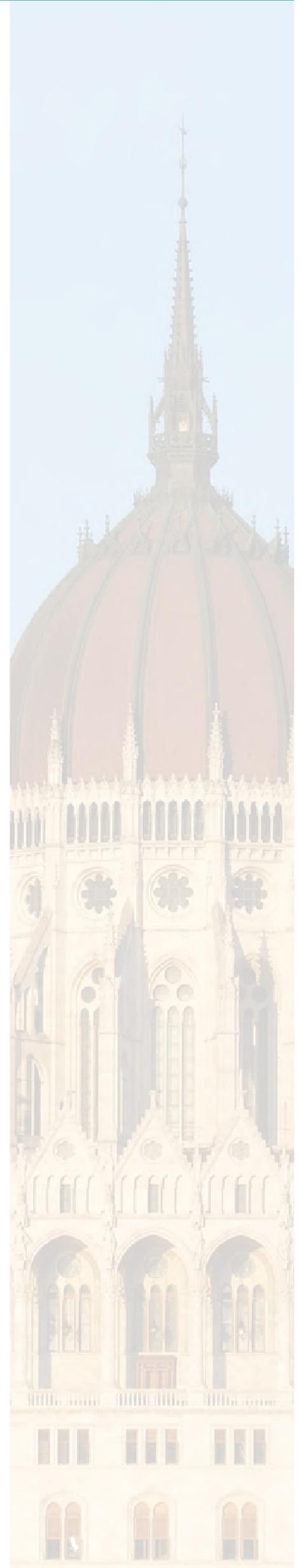
Online Attendance

For those who are registered to attend the meeting online only, please click on this link to access the sessions: <https://esnr.live/epnc2024/> the link will be accessible starting on the morning of the first day of the meeting.

Recordings

The video recordings of all lectures will be available for 30 days after the end of the congress. Please use the same link above to access all recordings.

All participants registered both onsite and online will have access to the recordings of the course and congress (depending on their registration type).



SCIENTIFIC & CME INFORMATION

Technical requirements for Oral Presentations Speakers

Each presenter will need to upload their presentation at the AV desk inside the Plenary Hall. Use of personal laptops will not be allowed.

Please upload your presentation at least two hours before the beginning of your session. For any special requirement, please refer to the staff inside the Plenary Hall.

CME Information

The European Pediatric Neuroradiology Congress (EPNC) 2024, Budapest, Hungary 13/11/2024 - 16/11/2024, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 19.0 European CME credits (ECMEC®s).

Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at <https://edhub.ama-assn.org/pages/applications>.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Participants will need to fill in the online evaluation form in order to receive their CME certificates. The form will be available up to 30 days after the course. It's not possible to receive the CME certificate without the evaluation form.

Instructions will be sent by email to all participants.

Electronic Posters

You can access the below e-posters on the computers at the e-poster station.
You can also access all the e-posters online by clicking [here](#)

List of e-posters

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MAGNETIC RESONANCE IMAGING (MRI) IN ETHYLMALONIC ENCEPHALOPATHY: TWO PECULIAR CASES - [GIULIO PEZZETTI](#)

P-002

SPINAL MUSCULAR ATROPHY: A QUANTITATIVE CERVICAL CORD MRI AS A RELIABLE PROGNOSTIC MARKER IN A COHORT OF PEDIATRIC PATIENTS - [SILVIA NICOLOSI](#)

P-003

PARENTAL COUNSELLING AT A MULTIDISCIPLINARY FOETAL NEUROLOGY CLINIC IS ACCURATE - CLINICAL OUTCOME - [MICHAL GAFNER](#)

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RADIOLOGICAL ASSESSMENT OF THE PITUITARY GLAND AND LONG-TERM ENDOCRINOLOGICAL ABNORMALITIES IN PEDIATRIC BRAIN CANCER SURVIVORS - [SHAI SHROT](#)

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A RARE CASE OF LARGE DURAL SINUS MALFORMATION: FETAL AND POST NATAL IMAGING
[MARTINA DI STASI](#)

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INTRA ARTERIAL CHEMOTHERAPY IN RETINOBLASTOMA - [UMAIR RASHID](#)

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P-008

A CASE OF DYKE-DAVIDOFF-MASSON SYNDROME (DDMS) IN A 12-YEAR-OLD: GENUINE RARITY OR POTENTIAL UNDERDIAGNOSIS? - [AMEL BELAIB](#)

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MRI INSIGHTS INTO NEUROLOGICAL DAMAGE FROM NITROUS OXIDE ABUSE: A CASE SERIES
[TALBIA JAWABRA](#)

P-010

UNCOMMON SCALP SWELLING: SUB-APONEUROTIC FLUID COLLECTION IN A 2-MONTH-OLD
[NEERA SENTHIVEL](#)

P-011

A CASE OF NEONATAL ENCEPHALOPATHY WITH NON-EPILEPTIC MYOCLONUS MIMICKING A CONGENITAL CMV-INFECTION. HOW COULD TWO DIFFERENT PATHOLOGIES RESULT IN A SIMILAR MRI PHENOTYPE? - [ADRIANA CRISTOFANO](#)

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RADIATION-INDUCED CEREBRAL VASCULOPATHY – DIAGNOSIS WE HAVE TO BEAR IN MIND
[LONG CHING](#)

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[MARIA IBNOULKHATIB](#)

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[MICHAEL AERTSEN](#)

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CONGENITAL APLASIA OF THE TROCHLEAR NERVE IN A CASE OF PEDIATRIC SUPERIOR OBLIQUE MUSCLE PALSY. ROLE OF HIGH-RESOLUTION MAGNETIC RESONANCE IMAGING USING BALANCED STEADY-STATE FREE PRECESSION (BFFE) - [FRANCESCA PICCOLI](#)

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THE CONTRIBUTION OF CONVENTIONAL AND DIFFUSION-WEIGHTED MAGNETIC RESONANCE IMAGING FINDINGS TO THE DIFFERENTIAL DIAGNOSIS OF PEDIATRIC INTRAVENTRICULAR TUMORS
[RUGIYYA AHMADLI](#)

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CONGENITAL CEREBELLAR ABNORMALITIES IN EXTREMELY PRETERM NEONATES- A CASE SERIES
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YAP1 FUSION-POSITIVE SUPRATENTORIAL EPENDYMOMA IN AN INFANT: CASE REPORT

SILVIA CARVALHO

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A CASE OF REFRACTORY EPILEPSY SYNDROME RELATED TO FEBRILE INFECTION (FIRES) ASSOCIATED WITH POSITIVITY FOR ANTI C1Q ANTIBODIES

CRISTINA GALLO

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MRI PATTERNS OF NEUROTOXICITY IN PEDIATRIC PATIENTS WITH ACUTE LYMPHOBLASTIC LEUKEMIA - ALESSANDRO DI PAOLA

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RETROSPECTIVE ANALYSIS OF RADIOLOGICAL, HISTOCHEMICAL AND MOLECULAR FEATURES OF A PATIENT WITH NEWLY DIAGNOSED DIFFUSE GLIONEURONAL TUMORS WITH OLIGODENDROGLIOMA-LIKE FEATURES AND NUCLEAR CLUSTERS (DGONC) - HELENA WITOWICZ

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ETIOLOGICAL INVESTIGATION OF MOTOR IMPAIRMENT IN CHILDREN - CASE STUDIES

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ANALYSIS OF 3T MR IMAGING ARTEFACTS ON BALANCED STEADY STATE FREE PRECESSION SEQUENCE FOR THE STUDY OF THE FETAL BRAIN - FRANCESCO LO RUSSO

INDUSTRY SPONSORED SYMPOSIUM

Friday, November 15th 2024

12:50 – 13:20

Plenary hall



Initial experience of pediatric neuroimaging with gadopiclesol (Vueway).

Gregor Kasprian

Division of Neuro- and Musculoskeletal Radiology, Department of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Austria.

Introduction by Andrea Rossi - Neuroradiology Unit, Istituto Giannina Gaslini, Genoa, Italy.

ACKNOWLEDGEMENTS

Special thanks to our exclusive sponsor



WELCOME RECEPTION



Wednesday
13th November

19:00-20:00

**Plenary Hall at
Radisson Blu Béke Hotel**



LIFE FROM INSIDE

Innovation



Sustainability



Education



Trust



Welcome to the
**European Pediatric
 Neuroradiology
 Congress**

**UNLOCKING THE
 INVISIBLE**
 That's the Bracco difference



LIFE FROM INSIDE

EPNC

Friday, 15th
November

(Room Britannia – lobby floor)

12:50 – 13:20

Initial experience of pediatric neuroimaging with
gadopiclenol (Vueway).

Gregor Kasprian

Introduction by **Andrea Rossi**

FACULTY:

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