Sunday • 8 May 2016 | Parallel Hall (Salle 202)

08:30-10:00   CNS Editorial Board Meeting
10:30-13:00   ESPN Executive Board Meeting
15:30-19:00   **NURSE SESSION**

19:00-21:30   President’s Message & Welcome Cocktail @ the Plenary Hall Foyer
**Monday • 9 May 2016 | Plenary Hall (Salle Moebius)**

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<td>08:00-10:00</td>
<td><strong>SESSION 1: Spinal dysraphism</strong></td>
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<td>Chairpersons: T. Roujeau (France), F. Van Calenberg (Belgium)</td>
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<td>08:00-08:20</td>
<td>IL01: Uncommon secondary neurulation malformations: retained medullary cord, terminal myelocystocele, and unjointed primary and secondary neural tubes</td>
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<td>08:20-09:05</td>
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<td>Surgical treatment in children spinal cord lipomas with tethered cord syndrome</td>
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<td>Hemimyelomeningocele: clinico-pathological considerations</td>
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<td>OP05</td>
<td>Closure of myelomeningocele. Does timing matter?</td>
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<td>OP06</td>
<td>Cellular and molecular lesion mechanisms in the human myelomeningocele placode</td>
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<td>09:05-09:40</td>
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<td>FP001</td>
<td>The health related quality of life of children with lumbosacral lipoma</td>
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<td>Congenital neural tube defects evaluation in newborns with prenatal Zika virus infection</td>
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<td>Postnatal repair of myelomeningocele – A method of the past?</td>
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<td>Identification of cellular, molecular, and imaging clues for tethered cord development in the context of lipomyelomeningocele</td>
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<td>Lessons learned after 160 fetal surgeries for myelomeningocele</td>
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<td>FP011</td>
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<td>FP012</td>
<td>Stem cells from different fetal tissues: isolation and characterization by comparative study of expression of some pluripotent markers</td>
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<td>Discussion</td>
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<td>10:30-12:00</td>
<td><strong>ROUND TABLE FOCUS DISCUSSION 1: Lipoma</strong></td>
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<td>Moderator: D. Thompson (United Kingdom)</td>
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<td>10:30-10:50</td>
<td>IL02: Lipoma: achieving consensus │ C. Di Rocco (Italy)</td>
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<td>10:50-11:10</td>
<td>IL03: Lumbosacral lipoma – An experience of attempted near total/radical resection │ K.-C. Wang (Korea)</td>
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<td>11:10-12:00</td>
<td><strong>ROUND TABLE DISCUSSION: Complex lipomas: towards consensus</strong></td>
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<td>Panel: M. Zerah (France), C. Di Rocco (Italy), K.-C. Wang (Korea), C.E. Deopujari (India), R. Santos de Oliveira (Brazil)</td>
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<td>Joint session with the Asian-Australasian Society for Pediatric Neurosurgery (AASPN)</td>
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<td>12:15-13:15</td>
<td><strong>SATELLITE (LUNCHEON) SYMPOSIUM</strong></td>
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<td>13:30-14:00</td>
<td><strong>SPECIAL LECTURE 1: Advances in the imaging of hydrocephalus</strong></td>
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<td>Chairpersons: S. Sgouros (Greece), W.T. Seow (Singapore)</td>
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<td><strong>SESSION 2: Advances in pediatric head trauma management</strong></td>
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<td>Chairpersons: M. Vinchon (France), J. Hinojosa (Spain)</td>
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<td>14:00-14:20</td>
<td>IL04: Individually optimized CPP in pediatric TBI and other brain insults │ M.U. Schuhmann (Germany)</td>
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<td>14:20-14:45</td>
<td>Oral presentations │ OP07-OP09</td>
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<td>Surgical options for treatment of traumatic subdural hematomas in children with suspected abusive head trauma │ J.R. Tude Melo (Brazil)</td>
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<td>OP08</td>
<td>Continuous multimodality monitoring in children after traumatic brain injury – Preliminary experience │ A. Young (United Kingdom)</td>
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<td>OP09</td>
<td>“Wait and see” policy as the first-line management of radiologically significant epidural hematomas in pediatric patients with normal initial neurological examination. A 3-years experience of our department │ G. Markogiannakis (Greece)</td>
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<td>14:45-15:00</td>
<td>Flash presentations │ FP013-FP017</td>
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<td>FP013</td>
<td>Prognostic value of leucocytosis in pediatric traumatic brain injury │ S. Mukherjee (United Kingdom)</td>
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<td>FP014</td>
<td>Perforating brain injuries in children – Protocol of management from civilian practice │ K. Sil (India)</td>
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<td>FP015</td>
<td>Cranial burst fracture in infants – An uncommon injury │ S. Chatterjee (India)</td>
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Monday • 9 May 2016 (continued)

FP016  Decompressive craniectomy for severe traumatic brain injury in pediatric patients  |  S. Puget (France)

FP017  Transcranial ultrasonography in pediatric patient with traumatic brain injury  |  K.F. Venegas Hidalgo (Belarus)

15:00-15:10  Discussion

15:10-15:40  SPECIAL LECTURE 2: Lessons from the Antenatal Clinic

Chairpersons: W. Wagner (Germany), D. Scavarda (France)
Speaker: M. Zerah (France)

15:40-16:00  Coffee break • ePosters viewing

16:00-17:30  SESSION 3: Spine

Chairpersons: G. Tamburrini (Italy), D. Swift (USA)

16:00-16:20  IL05: Instrumentation in the pediatric C spine  |  S. Chatterjee (India)

16:20-17:05  Oral presentations  |  OP10-OP15
OP10  The risk of meningitis in spinal dermal sinuses: when, not if  |  M. Vinchon (France)
OP11  Craniovertebral junction fixation in children under 5  |  P. Grover (United Kingdom)
OP12  Central sleep apneas: related symptom or criterion of effectiveness after craniovertebral junction anomalies (CVJA) surgery?  |  A. Rolland (France)
OP13  Reversed rotatory atlanto-axial subluxations: proposing a new entity  |  S. Chatterjee (India)
OP14  Do we fix, halo or collar pediatric atlanto-axial rotatory fixation (AARF)? Is less more?!  |  G.A. Solanki (United Kingdom)
OP15  Foramen magnum stenosis in achondroplasia: management roadmap  |  A. Cama (Italy)

17:05-17:20  Flash presentations  |  FP018-FP022
FP018  Spinal kyphotic deformity after laminoplasty in children  |  C. Chamilos (Greece)
FP019  Surgical treatment and curative effect analysis in 326 children with tethered cord syndrome  |  A.-J. Shang (China)
FP020  Cerebellar tonsil resection for treatment of Chiari I malformation in children  |  B. Braga (USA)
FP021  Minimally invasive spine surgery techniques in children  |  M. Tichy (Czech Republic)
FP022  Urodynamic outcomes of detethering in children: experience with 46 pediatric patients  |  Y. Izci (Turkey)

17:20-17:30  Discussion

17:30-19:00  ESPN Business Meeting

19:30-22:00  President’s Dinner @ the Blue Train Restaurant
Tuesday • 10 May 2016 │ Plenary Hall (Salle Moebius)

08:00-10:15 SESSION 4: Pediatric Neurosurgery and Technology

Chairpersons: W.J.R. van Ouwerkerk (the Netherlands), P. Chumas (United Kingdom)

08:00-08:20 IL06: Web-based platform for neurosurgical training │ A. Bahsoun (United Kingdom)

08:20-09:25 Oral presentations │ OP16-OP24

OP16 Combining fMRI, MRI tractography and TMS with intraoperative electrophysiology and imaging to maximize radicality as well as functional preservation in eloquent area surgery │ M.U. Schuhmann (Germany)

OP17 Lessons learned with the intraoperative magnetic resonance in a pediatric unit after 5 years │ C. Mallucci (United Kingdom)

OP18 Role of ultrasonographic evaluation in suspected craniosynostosis │ L. Pogliani (Italy)

OP19 Transorbital ultrasound measurement of the optic nerve sheath diameter (ONSD) as a non-invasive marker of intracranial pressure (ICP) in children │ L. Padayachy (South Africa)

OP20 Validity evidence for the neuro-endoscopic ventriculostomy assessment tool (NEVAT) │ G. Breimer (the Netherlands)

OP21 Diagnostic yield and clinical impact of brain biopsy in children presenting with neurological deterioration of unknown cause │ J. Hassell (United Kingdom)

OP22 A pilot study of the effects of selective dorsal rhizotomy in children with severe spastic cerebral palsy, GMFCS IV, at one year │ K. Aquilina (United Kingdom)

OP23 Developing a national pediatric neurosurgical network in the Netherlands │ E.J. van Lindert (the Netherlands)

OP24 Children’s Epilepsy Surgery Service in England: preliminary audit of activity and outcome │ W. Harkness (United Kingdom)

09:25-10:00 Flash presentations │ FP023-FP034

FP023 Intraoperative magnetic resonance imaging in pediatric neurosurgery: safety and utility │ C. Di Rocco (Germany)

FP024 Medico-legal issues and claims that may arise following fetal surgery │ W.T. Seow (Singapore)

FP025 Electronic patient-doctor communication: exploring needs and requirements of pediatric neurosurgeons and patients │ N. Klein Essink (the Netherlands)

FP026 Motor plasticity in the human cerebellum: an electrophysiological and behavioral study │ P.-A. Beuriat (France)

FP027 Frameless stereoelectroencephalography (SEEG) in children: a pediatric series from a unique center │ D. Scavarda (France)

FP028 Early implantation of vagal nerve stimulation in children │ J. Soloman (Switzerland)

FP029 Pediatric epilepsy surgery – A single surgeon’s experience │ C. Pringle (United Kingdom)

FP030 Selective dorsal rhizotomy – The Leeds experience over our first 60 cases │ J.R. Goodden (United Kingdom)

FP031 Rational of optic nerve decompression in optic nerve injury │ A.K. Mahapatra (India)

FP032 Surgical treatment of intraventricular hemorrhage in newborns │ I. Protsenko (Ukraine)
Tuesday • 10 May 2016 (continued)

**FP033** A method for the creation of normative pediatric skull models: a pilot study  |  M. Tolhuisen (the Netherlands)

**FP034** Neonatal hypoxia ischemia in rat disrupts the developmental time course of doublecortin release in the cerebrospinal fluid  |  R. Guzman (Switzerland)

10:00-10:15 Discussion

10:15-10:45 Coffee break • ePosters viewing

**10:45-12:15 ROUND TABLE FOCUS DISCUSSION 2: Endoscopy**

Moderators: C. Mallucci (United Kingdom), J.M.F. Salomão (Brazil)

10:45-11:05 **IL07** Endoscopic third ventriculostomy in children: long term results  |  R. Santos de Oliveira (Brazil)

11:05-11:25 **IL08** Endoscopic management of Dandy Walker syndrome  |  S. Cavalheiro (Brazil)

**11:25-12:15 ROUND TABLE DISCUSSION: Endoscopy**

Panel: C. Mallucci (United Kingdom), J.M.F. Salomão (Brazil), S. Cavalheiro (Brazil), R. Santos de Oliveira (Brazil)

Joint session with the Brazilian Society for Pediatric Neurosurgery (SBNPed)

12:15-13:30 Lunch break • ePosters viewing

**13:30-17:00 SESSION 5: Oncology**

Chairpersons: S. Puget (France), H. Machado (Brazil)

13:30-13:50 **IL09** The Burdenko experience of CNS tumors in the first year of life: lessons learned  |  S.K. Gorelyshev (Russia)


**OP25** Childhood craniopharyngeoma: 15 years of multimodal treatment experience  |  P. Dastoli (Brazil)

**OP26** Benefits and risks of neoadjuvant chemotherapy in metastatic medulloblastoma: a comparative study in 71 patients  |  L. Guerrini-Rousseau (France)

**OP27** Long-term follow up following surgical treatment of intramedullary spinal cord pilocytic astrocytomas in children  |  F. Sala (Italy)

**OP28** Surgery of subependymal giant cell astrocytomas in tuberous sclerosis complex. Surgical outcome and morbidity in 31 patients and 44 surgical procedures  |  F. Giordano (Italy)

**OP29** Intracranial neoplasms in the first year of life: results of a third cohort of patients from a single institution  |  S.M. Toescu (United Kingdom)

**OP30** Robot-assisted stereotactic biopsy in DIPG  |  A. Carai (Italy)

**OP31** Brain tumors associated with early epilepsy onset: approach and outcome  |  H.R. Machado (Brazil)

**OP32** Pediatric transsphenoidal surgery of sellar localization tumors  |  P. Plavskyi (Ukraine)

**OP33** Ultrasound-induced opening of the blood-brain barrier to enhance temozolomide and irinotecan delivery to the brain: an experimental study in rabbits  |  K. Beccaria (France)
OP34  Atypical teratoid/rhabdoid tumors – A 10 year single institution experience  
(United Kingdom)  

D. Bhagawati

OP35  Role of intraoperative MRI in resection of pediatric anterior skull base tumor – Initial experience  
(United Kingdom)  

S. Mohan Rao Kanangi

OP36  How to increase the percentage of complete resections for ependymoma? Results of a survey  
(the Netherlands)  

M.-L. Van Veelen

15:15-15:25  Discussion

15:25-16:45  Flash presentations  
FP035-FP060

FP035  5ALA use in pediatric brain tumors  
(Israel)  

J. Roth

FP036  Immunohistochemical evaluation for the pathogenesis of intracranial germ cell tumors: expression of pluripotency and cell differentiation markers  
(Japan)  

T. Miyagawa

FP037  Medulloblastoma DAOY cell line: advances in proteome characterization  
(Italy)  

L. Massimi

FP038  Immunohistochemical analysis of Galectin-3 in gliomas: a tissue microarray study with a comparison of three commercial antibodies targeting different epitopes  
(Brazil)  

R. Santos de Oliveira

FP039  Intra-CSF drug delivery for the treatment of leptomeningeal metastases: patient selection and risk profile  
(United Kingdom)  

I. Jalloh

FP040  Antero lateral brainstem gliomas: our surgical experience with the posterior petrosal approach in 10 children  
(Spain)  

U. Barcik

FP041  A report of 33 cases of intracranial tumors diagnosed during the first year of life  
(France)  

N. Chivoret

FP042  Evolving trans-sphenoidal surgical management of paediatric craniopharyngiomas: a single surgeon's experience  
(United Kingdom)  

S. Mukherjee

FP043  Pre-operative neutrophil lymphocyte count ratio (NLCR) in predicting the histological grade of pediatric gial tumors: a preliminary study  
(United Kingdom)  

F. Saeed

FP044  Pineal cysts: neurosurgical perspective  
(Croatia)  

H. Jednačak

FP045  The role of surgery in non-NF-associated pediatric optic pathway gliomas (OPG)  
(Germany)  

L.-N. Lohkamp

FP046  WITHDRAWN

FP047  Ten years review of posterior fossa cerebellar pilocytic astrocytoma in children  
(France)  

A. Szathmari

FP048  Pediatric infratentorial ganglioglioma: results of a series of 33 children and literature review  
(France)  

S. Puget

FP049  True aqueductal tumors: a unique entity  
(Israel)  

J. Roth

FP050  Incidental brain tumors in children – Management options  
(Poland)  

M. Mandera

FP051  Thalamic tumors – Approach and surgical results  
(Czech Republic)  

M. Smrčka

FP052  Anti-tumor activity of amblyomin-X, a new tick Kunitz-type inhibitor, in pediatric anaplastic ependymoma  
(Brazil)  

S. Cavalheiro

FP053  Neurosurgical management of orbital lesions in children in a developing country  
(Algeria)  

S. Bakhti
Tuesday • 10 May 2016 (continued)

FP054  Use of 5-ALA fluorescence to guide resection of cerebral neuroepithelial tumors in children  |  A. Kim (Russia)
FP055  Correlation of ADC map with histological grade in pediatric brain tumors  |  A. Moraiti (Greece)
FP056  The role of sex phenotype in pediatric CNS tumor incidence and survival  |  P. Chumas (United Kingdom)
FP057  Surgery for intraventricular tumors in children  |  J.W.J. Bizzi (Brazil)
FP058  Meningeoma in children: report of 11 cases  |  H. Jednačak (Croatia)
FP059  Spinal cord tumors in children: a review of 21 cases  |  O. Klein (France)
FP060  Spinal cord tumors in children and adolescents: diagnosis and treatment  |  G.A. Kevorkov (Ukraine)

16:45-17:00  Discussion

17:00-17:30  Coffee break • ePosters viewing

17:30-18:45  SESSION 6: Neurovascular management

Chairpersons:  L. Massimi (Italy),  O. Sparrow (United Kingdom)

17:30-17:50  IL10: Neurovascular intervention vs. surgery  |  G. Rodesch (France)
17:50-18:25  Oral presentations  |  OP37-OP41

OP37  Neurosurgical management in pediatric moyamoya: experience of 139 cerebral revascularizations  |  C. Roder (Switzerland & Germany)

OP38  Long-term outcome after multiple burr hole surgery in children with moyamoya angiopathy: a single centre experience in 108 hemispheres  |  T. Blauwblomme (France)

OP39  Cerebral blood flow improvement after indirect revascularization for pediatric moyamoya: a statistical analysis of arterial spin labeling MRI  |  T. Blauwblomme (France)

OP40  Clinical features, course and outcomes of pediatric moyamoya  |  S. Tho-Calvi (United Kingdom)

OP41  CNS cavernomas in the pediatric age group – A single center experience  |  A. Tascu (Romania)

18:25-18:35  Flash presentations  |  FP061-FP063

FP061  Management of pneumococcal meningitis in infants associated to acute intracranial pressure  |  F. Di Rocco (France)

FP062  Pediatrics brain arterio-venous malformations (AVM): presentation, treatment modalities and outcomes  |  O. Sparrow (United Kingdom)

FP063  Considerations in decision-making in the management of pediatric AVMs  |  I. Jalloh (United Kingdom)

18:35-18:45  Discussion

20:00-00:00  Congress Dinner @ the Pavillons de Bercy
Wednesday • 11 May 2016 | Plenary Hall (Salle Moebius)

08:00-10:45 SESSION 7: Craniofacial Surgery

Chairpersons: M.-L. Van Veelen (the Netherlands), J.T. Goodrich (USA)

08:00-08:20 IL11: Craniofacial surgery: current genetic perspective | F. Di Rocco (France)

08:20-09:25 Oral presentations | OP42-OP50

OP42 Preoperative and longitudinal complete cognitive evaluation in children operated on for single suture craniosynostoses: early recognition and rehabilitation of selective impaired functions contribute to an improvement of long term neurodevelopmental outcome | G. Tamburrini (Italy)

OP43 Comparison of piezosurgery and conventional instruments in cranioplasty with fronto-orbital advancement | M. Messing-Jünger (Germany)

OP44 Comparison of early minimal invasive cranioplasty without regular helmet therapy compared to standard open cranioplasty in sagittal synostosis | M. Messing-Jünger (Germany)

OP45 A novel, non-bandeau technique for fronto-orbital remodeling in synostotic trigonocephaly and plagiocephaly: report of 328 cases | O. Thornett (United Kingdom)

OP46 3D handheld optical scanning for quantitative evaluation of head shape changes following fronto-orbital remodeling for trigonocephaly | O. Goktekin (United Kingdom)

OP47 Computer assisted virtual planning and surgical template fabrication for fronto-orbital advancement: pilot evaluation of outcome | J. Soleman (Switzerland)

OP48 Radiation-free 3D head shape and volume evaluation after endoscopically assisted craniosynostosis surgery | G. de Jong (the Netherlands)

OP49 The computed cranial focal point | G. de Jong (the Netherlands)

OP50 Management of positional plagiocephaly with cranial helmet in a series of 2188 children treated between 1991 and 2013. Our experience | A. Szathmari (France)

09:25-09:35 Discussion

09:35-10:35 Flash presentations | FP064-FP082

FP064 Antenatal diagnosis of craniosynostosis: the necessity of pluridisciplinary consultation for the correct counseling | F. Di Rocco (France)

FP065 Scaphocephaly in children over 1 year of age | F. Di Rocco (France)

FP066 Human foramen magnum area and posterior cranial fossa volume growth in relation to cranial base synchondrosis closure in the course of child development | G. Coll (France)

FP067 Bicoronal synostosis: the role of fronto-orbital advancement | M. Vinchon (France)

FP068 Evaluation of the quality of life in 25 patients operated on for unicoronal synostosis in two craniofacial surgery units (Toulouse and Lille) | B. Plas (France)

FP069 Developmental attainment in metopic craniosynostosis | P. Chumas (United Kingdom)

FP070 A proposal for a new classification of complications in craniosynostosis surgery: the Leeds experience | D. Shastin (United Kingdom)

FP071 Craniofacial distraction osteogenesis with rigid distractors for the treatment of syndromic craniosynostosis: a long-term follow up in a single center | R. Santos de Oliveira (Brazil)

FP072 Risk for Chiari 1 malformation in untreated sagittal synostosis | L.G. Valentini (Italy)
FP073  Fronto-orbital remodeling in coronal synostosis treatment: review of a series investigating respective role of molecular diagnosis and surgery | L.G. Valentini (Italy)

FP074  Differential expression of candidate genes for human language-readiness in non-syndromic sagittal synostosis suggests shared molecular networks in craniofacial dysmorphology and cognitive evolution | W. Lattanzi (Italy)

FP075  Analysis of operation cases of fibrous dysplasia in children | T. Miwa (Japan)

FP076  Role of mechanosensory proteins PC1/PC2 in suture formation and craniosynostosis | M.S. Themistocleous (Greece)

FP077  Intra-operative dural tears impact in craniofacial procedures: analysis of 320 consecutive cases | S. Mohan Rao Kanangi (United Kingdom)

FP078  WITHDRAWN

FP079  Craniosynostosis – Sutures or plates? | F. Horn (Slovak Republic)

FP080  Craniosynostosis – Techniques and outcome | D. Srinivas (India)

FP081  Late approach for non-syndromic craniosynostosis – Analysis of pitfalls and complications | A. Canheu (Brazil)

FP082  Safety of cranial vault remodeling in children with non-syndromic craniosynostosis – Single institution experience | P. Vacek (Czech Republic)

10:35-10:45  Discussion

10:45-11:15  Coffee break • ePosters viewing

11:15-12:30  SESSION 8: Intraoperative neuromonitoring

Chairpersons: E.W. Hoving (the Netherlands), J. Roth (Israel)

11:15-11:35  IL12: The role of intraoperative neuromonitoring in Pediatric Neurosurgery | F. Sala (Italy)

11:35-12:00  Oral presentations | OP51-OP53

OP51  Intraoperative neurophysiology in pediatric supratentorial surgery: experience with 59 cases | J. Roth (Israel)

OP52  Brain stem safe entry zone in child | S. Cavalheiro (Brazil)

OP53  Neuromonitoring during de-tethering cord procedures in infants: the bulbocavernous reflex in total removal lipoma surgery | R. Cordella (Italy)

12:00-12:20  Flash presentations | FP083-FP089

FP083  Clinical, imaging and immunohistochemical characteristics of focal cortical dysplasia type II extra-temporal epilepsies in children: analyses of an institutional case series | F. Knerlich-Lukoschus (Germany)

FP084  WITHDRAWN

FP085  Long-term evaluation of intra-operative neuromonitoring (IONM)-assisted tethered cord surgery. A retrospective longitudinal observational study | E.W. Hoving (the Netherlands)

FP086  Pediatric intraoperative neurophysiological monitoring in posterior fossa surgery | A. Carai (Italy)

FP087  Epilepsy surgery in benign tumors in children | M. Tichý (Czech Republic)
Wednesday • 11 May 2016 (continued)

FP088  Intraoperative neurophysiological monitoring for the resection of brain tumors in pediatric patients: tips and tricks | F. Sala (Italy)

FP089  Intraoperative neuromonitoring in children with lumbosacral myelomeningocele | Y. Izci (Turkey)

12:20-12:30  Discussion

12:30-14:00  Lunch break • ePosters viewing

14:00-17:15  SESSION 9: Hydrocephalus

Chairpersons: M. Messing-Jünger (Germany), M. Mandera (Poland)

14:00-14:20  IL13: DRIFT trial of fibrinolytic therapy | A. Whitelaw (United Kingdom)

14:20-15:45  Oral presentations | OP54-OP65

OP54  Repeat endoscopic third ventriculostomy in pediatric patients: the Dutch experience | G. Breimer (the Netherlands)

OP55  Zika virus associated microcephaly: a threatening outbreak imposing differential diagnosis with neurosurgical diseases | E. Jucá (Brazil)

OP56  International Infant Hydrocephalus Study (IIHS): initial results of a prospective, multicentre comparison of endoscopic third ventriculostomy (ETV) and shunt for infant hydrocephalus | A.V. Kulkarni (Canada)

OP57  Shunt-assistants with fixed versus adjustable opening pressures: comparison of clinical parameters in the course of the treatment of pediatric hydrocephalus | W. Wagner (Germany)

OP58  Reduction in primary and revision shunt infection rate after introduction of a mandatory shunt perioperative protocol: a single institution retrospective cohort study | O. Omrani (United Kingdom)

OP59  Ventriculo-subgaleal shunt in preterm infants. Surgical experience | K. Sandhu (United Kingdom)

OP60  Pre- and post-shunting CSF concentrations of IL-1β, IL-6 and TNF-α in young Wistar rats: the role of inflammation in kaolin-induced experimental hydrocephalus | M. Volpon Santos (Brazil)

OP61  The GAVCA study – Effect of a mobile health application to assist ventricular catheter guidance in a randomized, prospective multicenter trial | U.W. Thomale (Germany)

OP62  Clinical and histopathological effects of a ventricular-subcutaneous shunt in kaolin-induced experimental hydrocephalus | M. Volpon Santos (Brazil)

OP63  Vancomycin use during CSF-shunt placement reduces shunt infection rate | M.W.T. van Bilsen (the Netherlands)

OP64  Principles of testing hydrocephalus shunts in vivo using infusion test | Z. Czosnyka (United Kingdom)

OP65  Water on the brain: volumetric assessment of ventricular changes in shunt failure | I. Anderson (United Kingdom)

15:45-15:55  Discussion
15:55-17:05  Flash presentations  |  FP090-FP112

FP090  Surgery for intracranial arachnoid cysts in children – A prospective long-term study  |  K. Rabiei (Sweden)

FP091  Long-term mortality rates in shunted hydrocephalic patients  |  M. Gmeiner (Austria)

FP092  30 day return to OR after VP shunt operation: a quality measure?  |  M. Handler (USA)

FP093  Perinatal diagnosis of Dandy Walker malformation: treatment and outcome  |  J. Ulrich (Ireland)

FP094  Survival of gravitational versus traditional non-gravitational valves after primary ventriculoperitoneal shunt insertion in children: a retrospective cohort study  |  T. Grainger (United Kingdom)

FP095  The individuality of intracranial arachnoid cysts in children – A single institute analysis  |  E. Januschek (Germany)

FP096  Evaluation of the safety and efficacy of pediatric intraventricular endoscopy  |  A.L. Bowes (United Kingdom)

FP097  Is there any correlation between static and pulsatile intracranial pressure parameters and intracranial volumes in children and adolescents with Chiari malformation type I?  |  R. Fric (Norway)

FP098  Ventriculo-subgaleal shunt using an antibiotic-impregnated catheter: a retrospective analysis of our institutional experience  |  P. Frassanito (Italy)

FP099  Endoscopic management of suprasellar arachnoid cyst with associated ventriculomegaly  |  T. Protzenko Cervante (Brazil)

FP100  Cerebrospinal fluid drainage options for posthemorrhagic hydrocephalus in premature neonates  |  J.R. Tude Melo (Brazil)

FP101  Combined endoscopic third ventriculostomy and choroid plexus coagulation in pediatric hydrocephalus  |  R. Mijalcic (Kuwait)

FP102  Fetal ventriculomegaly: what does it mean?  |  P. Barrio Fernández (Spain)

FP103  Treatment of posthemorrhagic hydrocephalus in preterm neonates using ventricular drain reservoirs: safety and effectiveness  |  M. Geerlings (the Netherlands)

FP104  Radiological and neurological response rates in aqueductal stenosis hydrocephalus treatment  |  M. Preuß (Germany)

FP105  Endoscopic treatment of quadrigeminal cistern arachnoid cysts  |  B. Oton-De Lima (Brazil)

FP106  Ventrice-sinus transversostomy in treatment of hydrocephalus  |  W. Khachatrian (Russia)

FP107  Intraoperative ultrasound guidance for shunt placement in hydrocephalus  |  M. Kullmann (Germany)

FP108  Endoscopic third ventriculostomy using 2-micron laser: single centre experience in 73 pediatric patients  |  C. Kural (Turkey)

FP109  Treatment of hydrocephalus in fourth ventricle tumors: our experience in a series of 171 patients and review of the literature  |  P. Peretta (Italy)

FP110  Neonatal reservoir in the treatment of pediatric hydrocephalus – 10 years study  |  D. Dúbravová (Slovak Republic)

FP111  Neuroendoscopic foraminoplasty for the treatment of unilateral hydrocephalus  |  M. Petrik (Turkey)
FP112  Functioning of children with hydrocephalus and their families  |  M. Mandera (Poland)
17:05-17:15  Discussion
17:15-17:30  Closing Ceremony
             Poster Awards  |  ESPN 2018 Congress presentation