



4th Congress of Asian-Australasian Society for Pediatric Neurosurgery (AASP 2023 Yokohama, Japan)

Theme: Controversies in Pediatric Neurosurgery

Program

Invited Guest Blue

AASP Faculty Red

JSPN local organizing committee Green

Wednesday, December 13 1st day

1st day

Room A

12:00-12:25

✦ Opening ceremony

Chairperson: Morota N (JPN)

- | | |
|--|--|
| 1. Opening remarks | Shirane R (JPN) |
| 2. Address from AASP | Wang KC (KOR) |
| 3. Address from Japanese Society for Pediatric Neurosurgery (JSPN) | Nonaka M (JPN) |
| 4. Address from the Japan Neurosurgical Society (JNS) | Saito N (JPN) |
| 5. Overview of the scientific program | Morota N (JPN) |

12:30-13:30

Symposium 1: Ventriculo-peritoneal shunt

Chairpersons: Suryaningtyas W (IDN), Shimoji K (JPN)

- 12:30-12:45 **Invited lecture**
Sun P (USA): Management of shunt infection: intraventricular infusion of anti-biotics
- AASP faculty lectures**
- 12:45-12:55 Ganesan D (MYS): Programable valve
- 12:55-13:05 Bhattacharjee S (IND): Chhabra valve
- 13:05-13:15 Kusuma AA (IDN): Selection of the shunt valve in Asia-Australasia
- 13:15-13:30 Discussion

13:30-14:30

Symposium 2: Infantile hydrocephalus

Chairpersons: Baticulon R (PHL), Kunihito T (JPN)

- 13:30-13:45 **Invited lecture**
Cinalli G (ITA): Pathophysiology of external hydrocephalus and its management
- 13:45-14:00 **Invited lecture**
Constantini S (ISR): Best practice of infant ETV: does CPC work or no use?
- AASP faculty lectures**
- 14:00-14:10 Suryaningtyas W (IDN): ETV for small or slit ventricle: Risk management
- 14:10-14:20 Orkhontuul S (MNG): What is the best practice of infantile hydrocephalus in LMIC (low-middle income country) in Asia- Australasia
- 14:20-14:30 Discussion

Room A



4th Congress of Asian-Australasian Society for Pediatric Neurosurgery (AASPN 2023 Yokohama, Japan)

Theme: Controversies in Pediatric Neurosurgery

Program

14:40-16:00

✿ AASPN 10th anniversary session 1: AASPN in the global pediatric neurosurgery

Chairpersons: **Suresh S (IND)**, **Seow WT(SGP)**, **Wong TT(TWN)**

- 14:40-14:55 **Boop F (USA)**: Introduction: past, present and future of ISPN (International Society for Pediatric Neurosurgery)
- 14:55-15:05 **Wang KC (KOR)**: The status quo and activity of AASPN
- 15:05-15:15 **Baticulon R (PHL)**: Pediatric neurosurgery in Southeast Asia
- 15:15-15:30 **Narenthiran G (UK)**: Global networking in pediatric neurosurgery
- 15:30-15:40 ISPN-AASPN MOU (Memorandum of Understanding) ceremony **Wang KC (KOR)**, **Constantini S (ISR)**:
- 15:40-15:55 **Constantini S (ISR)**: AASPN in ISPN
- 15:55-16:00 **Suryaningtyas W (IND)**: Next AASPN 2025 in Indonesia

16:00-16:15

✿ AASPN 10th anniversary session 2: Memorials of ISPN comrades for AASPN

Chairpersons: **Wang KC (KOR)**, **Sakamoto H(JPN)**

- 16:00-16:05 **Maixner W (AUS)**: James T. Goodrich
- 16:05-16:10 **Usami K (JPN)**: Michel Zerah
Silence

16:25-17:40

Symposium 3: Plagiocephaly: positional or synostotic? diagnosis & management

Chairpersons: **Thanh Can DD (VNM)**, **Miwa T(JPN)**

- 16:25-16:40 **Invited lecture**
Di Rocco (FRA): Current surgical management of anterior and posterior plagiocephaly
- 16:40-16:55 **Invited lecture**
Durham S (USA): Guideline of positional plagiocephaly
- AASPN faculty lectures**
- 16:55-17:05 **Harada A (JPN)**: Diagnosis and management of positional plagiocephaly
- 17:05-17:15 **Shim KW (KOR)**: Quantitative assessment of shape deformation:craniosynostotic plagiocephaly
- 17:15-17:25 **Hikosaka M (JPN)**: Cranial shape induction: management by helmets
- 17:25-17:40 Discussion

1st day

Room A

Room C

12:30-13:20

Oral presentation 1: TUMOR 1

Chairpersons: Kawamura A (JPN), Kagawa N (JPN)

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|--------|--|---|
| A-0009 | Oral | Zhao R (CHN): Frameless robot assisted stereotactic biopsy: an effective and minimally invasive technique for pediatric diffuse intrinsic pontine gliomas |
| A-0065 | Oral | Lee J (KOR): The risk and benefit of early surgery for infants with congenital brain tumors |
| A-0093 | Oral | Kurozumi K (JPN): Multimodality in pediatric brain tumor surgery -endoscope, exoscope, & navigation- |
| A-0121 | Flash | Fuad N (MYS): Analyzing the extent of tumor resection in intraoperative ultrasound guided surgeries for pediatric posterior fossa tumors : a single centre experience |
| A-0151 | Flash | Ohe N (JPN): Neuroendoscopic surgery for deep brain tumors using a small-diameter ultrasonic aspirator |
| A-0197 | Flash | Nagata Y (JPN): Two-staged endoscopic surgery for craniopharyngioma with obstructive hydrocephalus |
| A-0196 | Flash | Kagawa N (JPN): Usefulness of 4K3D-exoscopic removal for pediatric fourth ventricular tumors |
| A-0182 | Flash | Kuroha M (JPN): Preoperative radiological diagnosis of pediatric posterior fossa tumors |
| A-0184 | Flash | Wakabayashi M (JPN): Is surgical resection the first line for left hippocampal tumor in pediatric case? : a case report and literature review |
| | | Q&A |

13:20-14:00

Oral presentation 2: TUMOR 2

Chairpersons: Chiba K (JPN), Gui S (CHN)

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|--------|--|---|
| A-0101 | Oral | Dang Do Thanh C (VNM): Microsurgical resection for pediatric pineal region tumors: experiences from Vietnam |
| A-0123 | Oral | Chou SC (TWN): The diagnostic accuracy of intracranial germinomas: tumor markers versus tumor biopsy |
| A-0113 | Flash | Kagawa N (JPN): Long-term outcome of central nervous system germ cell tumors: reduced-dose radiotherapy and intensified chemotherapy improves clinical outcome and quality of life of long-term survivors |
| A-0028 | Flash | Koh EJ (KOR): Survival and malignant transformation of pineal parenchymal tumors: A 30-year retrospective analysis in a single-institution |
| A-0039 | Flash | Chen H (TWN): A case series and literature review on 98 pediatric patients of germ cell tumor developing growing teratoma syndrome |
| A-0128 | Flash | Jian G (CHN): Treatment standard and controversies on the pediatric intracranial NGGCT |



- A-0185 **Flash** Yamaguchi J (JPN): A retrospective analysis of clinical course of pediatric ependymoma cases in a single institute
- A-0195 **Flash** Hirokawa D (JPN): Multidisciplinary treatment in ependymoma
- A-0112 **Flash** Chen T-H (TWN): Direct evidence of the development of a myxopapillary ependymoma of the filum terminale into a cauda equina tumor and its clinical implication
Q&A

14:00-14:40

Oral presentation 3: TUMOR 3

Chairpersons: Fujii Y (JPN), Ohe N (JPN)

- A-0148 **Oral** Natsumeda M (JPN): Utility of cerebrospinal fluid cell free DNA analysis for the diagnosis of H3K27-altered diffuse midline gliomas
- A-0189 **Oral** Ohka F (JPN): Rapid gene analyses in pediatric central nervous system tumor using quantitative PCR device
- A-0030 **Flash** Hotta R (JPN): Since the introduction of mTOR inhibitors, surgical resection of SEGA has decreased, but surgical skills remain an essential technique
- A-0055 **Flash** Gomi A (JPN): Pediatric lower grade glioma surgery in the era of genomic medicine
- A-0058 **Flash** Uematsu K (JPN): Clinical characteristics of three patients with deficient DNA mismatch repair glioblastoma
- A-0078 **Flash** Usami K (JPN): Genetic diagnosis of pediatric brain tumors by liquid biopsy
- A-0094 **Flash** Ohe N (JPN): Molecular pathological analysis of radiation-induced glioblastoma after pediatric cerebellar medulloblastoma treatment
- A-0186 **Flash** Shiba Y (JPN): Efficacy and safety of bevacizumab, irinotecan, and temozolomide combination for relapsed or refractory pediatric central nervous system embryonal tumor
- A-0085 **Flash** Chiba K (JPN): Pediatric brain stem gliomas: the past, present and future
Q&A

16:25-17:50

Educational session 1: From basic to advanced management—neuroendoscopic tumor surgery

Chairpersons: Wittayanakorn N (THA), Kurozumi K (JPN)

- 16:25-16:40 **Cinalli G (ITA)**: Intraventricular tumor
- 16:40-16:55 **Thomale UW (DEU)**: Periventricular tumor
- 16:55-17:10 **Arakawa Y (JPN)**: Tubular brain tumor surgery
- 17:10-17:25 **Gui S (CHN)**: Endoscopic transnasal surgery for pediatric craniopharyngiomas
- 17:25-17:40 **Sankhla S (IND)**: Pediatric endonasal skull base surgery
- 17:40-17:50 Discussion

Thursday, December 14 2nd day

Room A

8:30-9:30

Symposium 4: Neurosurgical management of intracranial cystic lesions

Chairpersons: Bhattacharjee S (IND), Kameda M (JPN)

8:30-8:45

Invited lecture

Sun P (USA): Middle fossa arachnoid cyst: Surgery or observation

AASP faculty lectures

8:45-8:55

Kurihara J (JPN): What is the best practice? Endoscopic or microsurgery or shunt?

8:55-9:05

Thang LN (VMN): What is the best practice? Endoscopic or microsurgery or shunt?

9:05-9:15

Thanh Can DD (VNM): Surgery of naso-facial encephalocele

9:15-9:30

Discussion

9:30-12:35

🌸 The Japanese guidelines of pediatric brain tumors

Chairperson: Nagane M (JPN)

9:30-9:40

Introduction

Sugiyama K (JPN): Development of the Japanese guideline of pediatric brain tumors

Chairpersons: Nishikawa R (JPN), Kumabe T (JPN), Terashima K (JPN)

9:40-12:35

Japanese guideline of pediatric brain tumors

1: Diffuse intrinsic pontine glioma

9:40-9:55

Hirose Y (JPN): Outline of the Japanese guideline

9:55-10:05

Jallo G (USA): Comment

10:05-10:15

Thomale UW (DEU): Comment

2: Germ cell tumors

10:15-10:30

Nakamura H (JPN): Outline of the Japanese guideline

10:30-10:40

Wong TT (TWN): Comment

10:40-10:50

Gong J (CHN): Comment

3: Medulloblastoma

10:50-11:05

Hashimoto N (JPN): Outline of the Japanese guideline

11:05-11:15

Sala F (ITA): Comment

11:15-11:25

Ma J (CHN): Comment

2nd day

Room A



4th Congress of Asian-Australasian Society for Pediatric Neurosurgery (AASPN 2023 Yokohama, Japan)

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Program

4: Ependymoma

- 11:25-11:40 **Uzuka T (JPN)**: Outline of the Japanese guideline
- 11:40-11:50 **Boop F (USA)**: Comment
- 11:50-12:00 **Liang ML (TWN)**: Comment

5: Optic / hypothalamic glioma

- 12:00-12:15 **Nakada M (JPN)**: Outline of the Japanese guideline
- 12:15-12:25 **Cinalli G (ITA)**: Comment
- 12:25-12:35 **Kim SK (KOR)**: Comment

12:45-13:00

✦ Special lecture 1

Chairperson: **Saito N (JPN)**

Smith ER (USA): Novel topic of urinary biomarkers in diagnosis of brain tumors

13:10-14:20

Meet experts 1 (Luncheon seminar): Epilepsy management in Tuber Sclerosis Complex

Chairpersons: **Kim DS (KOR)**, **Yamamoto T (JPN)**

- 13:10-13:25 **Weiner HL (USA)**: Treatment strategy and surgical tactics
- 13:25-13:40 **Fujimoto A (JPN)**: mTOR inhibitor, VNS and open cranial surgery
- 13:40-13:55 **Ichikawa T (JPN)**: Japanese guideline of Tuber Sclerosis Complex (TSC)
- 13:55-14:10 **Wittayanakorn N (THA)**: Epilepsy management in TSC
- 14:10-14:20 Discussion

14:30-15:40

✦ AASPN 10th anniversary session 3:

Mami Yamasaki memorial session: woman pediatric neurosurgeons in Asia-Australasia

Chairpersons: **Maixner W (AUS)**, **Sobana M (IND)**, **Kato M (JPN)**

- 14:30-14:35 **Lee JY (KOR)**: Introduction
- 14:35-14:50 **Kuo MF (TWN)**: Women pediatric neurosurgeon in Asia-Australasia: carrier development and life
- 14:50-15:05 **Durham S (USA)**: Women pediatric neurosurgeon in North America: carrier development and the life
- 15:05-15:20 **Pettorini B (UK)**: Women pediatric neurosurgeon in Europe: carrier development and the life
- 15:20-15:30 **Wittayanakorn N (THA)**: My carrier as a pediatric neurosurgeon
- 15:30-15:40 **Maixner W (AUS)**: AASPN woman pediatric neurosurgeons in ISPN: future perspective

2nd day

Room A

15:40-16:40

Symposium 5: Pediatric Chiari type 1: what is the best practice?

Open or not to open the dura / Tonsillar coagulation or not / Management of a huge syrinx

Chairpersons: Sankhla S (IND), Shin M (JPN)

- 15:40-15:55 Brockmeyer DL (USA): What is the best practice?
- 15:55-16:10 Jackson E (USA): What is the best practice?
- 16:10-16:25 Ra YS (KOR): What is the best practice?
- 16:25-16:40 Discussion

16:50-17:20

✦ Special lecture 2

Chairperson: Date I (JPN)

- 16:50-17:05 Ichi S (JPN): Folate supplementation in Japan and AASPN countries
- 17:05-17:20 Narenthiran G (UK): Machine learning, metaverse and AI in neurosurgery

17:20-18:20

Symposium 6: Non-accidental head injury in children

Chairpersons: Kusuma AA (IND), Araki T (JPN)

- 17:20-17:35 **Invited lecture**
DiRocco F (FRA): Non-accidental head injury (AHI) in children: update
- AASPN faculty lectures**
- 17:35-17:45 Akutsu N (JPN): Minor head trauma and acute subdural hemorrhage (SDH) in relation with non-AHI in children
- 17:45-17:55 Park YS (JPN): What is Nakamura type 1 infantile acute SDH?
- 17:55-18:05 Kho GS (MYS): non-AHI in Asia-Australasia
- 18:05-18:20 Discussion



Room C

8:30-9:30

Educational session 2: From basic to advanced management—neurosurgical management of spina bifida

Chairpersons: **Ma J (CHN)**, **Gomi A (JPN)**

- 8:30-8:45 **Ahn ES (USA)**: Intrauterine repair of myelomeningocele (MMC): its evolution in the world and future in AASPN countries
- 8:45-9:00 **Lee JY (KOR)**: Embryology of the spinal cord and development of congenital anomalies
- 9:00-9:15 **Kato M (JPN)**: Impact of the new classification of spinal lipoma
- 9:15-9:30 **Kong V (KHM)**: How I operate MMC

9:30-10:20

Oral presentation 4: CVJ

Chairpersons: **Ando R (JPN)**, **Alias A (MYS)**

- A-0116 **Oral** Ando R (JPN): Foramen magnum stenosis in achondroplasia—who really needs decompression?
- A-0153 **Oral** Hayashi Y (JPN): Long-term prognosis in patients associated with scoliosis and Chiari malformation type I
- A-0165 **Oral** Zhou M (CHN): Posterior intra-articular distraction technique to treat pediatric atlantoaxial instability
- A-0029 **Flash** Robusto J (AUS): The fourth ventricular roof angle in Chiari-1 malformation - the Queensland experience
- A-0033 **Flash** Miwa T (JPN): Endoscopic foramen magnum decompression for pediatric Chiari malformation type I
- A-0067 **Flash** Ando R (JPN): Earlier onset of Chiari malformation in children and its anatomical complexity.
- A-0072 **Flash** Nishiyama K (JPN): Autonomic dysfunctions presented after surgery for Chiari 1.5: a case report and review of the literature
- A-0076 **Flash** Kumagai N (JPN): Sleep apnea in patients with achondroplasia associated with foramen magnum stenosis.
- A-0187 **Flash** Yang S-H (TWN): Surgical instrumentation in the pediatric craniovertebral junction: trick of the trade
Q&A

10:20-11:00

Oral presentation 5: SPINE

Chairpersons: Chiba Y (JPN), Makino K (JPN)

- A-0174 Oral Phi J (KOR): Growth of bony spur after early foramen magnum decompression for achondroplasia patients
- A-0013 Flash Kurimoto M (JPN): Establishment of intraoperative monitoring methods for pediatric spinal cord surgery analysis of the effects of general anesthesia methods on infants
- A-0032 Flash Sasaki M (JPN): Continuous administration of dexmedetomidine reduce intraoperative neuromonitoring in infants
- A-0042 Flash Lim MS (MYS): Spinal instrumentation surgery in paediatric patients: a new era in our local experience
- A-0117 Flash Sun P (CHN): Fourth ventricle stent placement for treatment of refractory syringomyelia in children
- A-0120 Flash Fuad N (MYS): Laminotomy technique for long segment pediatric spinal tumors: a ten year case series from a single center experience
- A-0122 Flash Avianti A (IDN): Early experience in pediatric spine infection : 4 years follow up pediatric scoliosis patient caused by tuberculous spondylitis with posterior stabilization
- A-0159 Flash Kuranari Y (JPN): Multiple Tarlov cysts in a young child patient
- A-0171 Flash Yokota C (JPN): The successful separation of conjoined spinal cords in pygopus twins; a case report and review of literature
Q&A

11:00-11:40

Oral presentation 6: TRAUMA

Chairpersons: Muroi A (JPN), Limpastan K (THA)

- A-0049 Oral Araki T (JPN): The significance of neurosurgical treatment for abusive head trauma – comparison of outcomes with simple accident cases –
- A-0045 Flash Araki T (JPN): Issues related to organ donation from pediatric brain-dead donors in Japan: consideration and efforts regarding the prohibition of organ donation from abused children
- A-0004 Flash Taheri R (IRN): The consequences of the COVID-19 pandemic on pediatric neurosurgery in the Middle East: an experience from a pediatric trauma hub
- A-0017 Flash Srichantha S (THA): Bone flap resorption following pediatric autologous cranioplasty and associated factors
- A-0025 Flash Kho GS (MYS): Use of MLC 901 (NeuroAid) in Traumatic Brain injury in Children-Patient Series
- A-0047 Flash Araki T (JPN): Consideration on the effect of coagulopathy in perioperative period and the usefulness of the bleeding index in prognosis prediction of severe traumatic brain injury in children
- A-0063 Flash Hana T (JPN): Anatomic location trends in the occurrence of pediatric head trauma



Program

- A-0064 **Flash** Nawashiro T (JPN): A case of non-traumatic subdural hematoma associate with Jacobsen's syndrome
- A-0190 **Flash** Muroi A (JPN): Sports participation after neurosurgery in children
- A-0200 **Flash** Maliawan S (IDN): Neglected chronic EDH spinal in pediatric patient
Q&A

11:40-12:30

Oral presentation 7: CRANIOSYNOSTOSIS

Chairpersons: **Sakuma J (JPN)**, **Ganesan D (MYS)**

- A-0036 **Oral** Kho G (TWN): Management of patient with Crouzon's syndrome with hydrocephalus, Chiari malformation and tethered fatty filum
- A-0097 **Oral** Kyutoku S (JPN): From wrench open to bulge out - earlier wider suturectomy for craniosynostosis reduces the surgical invasiveness -
- A-0109 **Oral** Kim JW (KOR): Neurocognitive outcomes of children with craniosynostosis after minimally invasive strip craniectomy
- A-0077 **Flash** Yindeedej V (JPN): Transverse sinus dominance in non-syndromic unilateral coronal craniosynostosis
- A-0066 **Flash** Ichise A (JPN): A case of atypical sagittal synostosis with prominent digital impressions, narrowing of the posterior cranial fossa, hydrocephalus, and posterior nasal stenosis
- A-0074 **Flash** Tomita Y (JPN): Growth curves for intracranial volume and two-dimensional parameters for Japanese children without cranial abnormality: toward treatment of craniosynostosis
- A-0091 **Flash** Ishida J (JPN): Treatment strategy for craniosynostosis at Okayama Craniofacial Center
- A-0141 **Flash** Kimoto Y (JPN): Factors to avoid blood transfusion in craniosynostosis surgery
- A-0191 **Flash** Miyairi Y (JPN): Navigation guided accurate osteotomy and preoperative simulation for craniosynostosis with 3D-printed skull models.
- A-0008 **Flash** Patni A (IND): Use of Piezoelectric for osteotomy in craniosynostosis – A single centre experience
- A-0046 **Flash** Kameda M (JPN): Helmet therapy with Aimet: From the standpoint of also being involved in the Starband
- A-0070 **Flash** Hirayama R (JPN): Long-term outcome of Cranioplasty using hydroxyapatite granules and absorbable mesh plates for skull defects in children
Q&A

13:10-14:20

Meet experts 2 (Luncheon seminar): Intravascular surgery in pediatric CNS lesions

Chairpersons: Phi JH(KOR), Miyachi S (JPN)

- 13:10-13:30 Smith ER (USA): Treatment strategy and surgical tactics of the pediatric AVM
- 13:30-13:50 Liang ML (TWN): Pediatric CVD: Future of open vs. intravascular surgery
- 13:50-14:10 Iizuka Y (JPN): Management of Vein of Galen Aneurysm
- 14:10-14:20 Discussion

15:10-16:00

Oral presentation 8: HYDROCEPHALUS 1

Chairpersons: Koyama J (JPN), Alojan A (SAU)

- A-0010 Oral Akai T (JPN): The analysis of cerebrospinal flow dynamics in mouse fetuses – Cerebrospinal fluid may flow out from the brain through the frontal skull base and choroid plexus-
- A-0126 Oral Ammar A (SAU): Family-base rare variant association analysis in Saudi Arabian hydrocephalus subjects using whole exome sequencing
- A-0022 Flash Hashimoto H (JPN): Normal growth curve of choroid plexus in children: implications for assessing hydrocephalus and choroid plexus hyperplasia
- A-0016 Flash Arsyad AM (IDN): A demographic study and success rate of ETV + CPC in RSUP HAM medan: a 5-year clinical experience
- A-0019 Flash Yoshifuji K (JPN): Utility of stented ETV (SETV)
- A-0073 Flash Nishiyama K (JPN): Endoscopic treatment for complications related to CSF shunt
- A-0132 Flash Alojan A (SAU): Endoscopic third ventriculostomy success rate in younger than 1 year old hydrocephalus patients: a meta-analysis
- A-0192 Flash Quang My L (VNM): Assessing the efficacy of endoscopic third ventriculostomy with choroid plexus cauterization (ETV/CPC) in pediatric hydrocephalus: a comprehensive study from south of Vietnam
- A-0110 Flash Kim KH (KOR): Clinical outcome of endoscopic procedure in patients with shunt malfunction
- A-0158 Flash Umaba R (JPN): Long-term outcome of pediatric ventriculoperitoneal shunt surgery: a single-center study
- A-0006 Flash Tan L (SGP): Outcomes comparing Ultrasound-guided VP shunt placement and Freehand insertion
- A-0024 Flash Nomura S (JPN): Risk factors for slit ventricle in the hydrocephalus children treated with ventriculo-peritoneal shunt
Q&A



Program

16:00-16:40

Oral presentation 9: HYDROCEPHALUS 2

Chairpersons: **Miyake K (JPN)**, **Thang LN (VMN)**

- 2nd day**
- A-0002 **Oral** Yoo D-S (KOR): Pressure volume index withdrawal could be express by linear curve and it also has a significant prognostic value.
 - A-0044 **Flash** Arihara M (JPN): Volume of cerebrospinal fluid removal by ventricular reservoir tapping for posthemorrhagic hydrocephalus in very low birth weight infants.
 - A-0100 **Flash** Yamagiwa Y (JPN): Ventriculoperitoneal (VP) Shunt-Associated Abdominal Pseudocysts: two cases successfully treated by long term antibiotics therapy with external CSF drainage.
 - A-0106 **Flash** Hermanto Y (IDN): CT studies on disproportionally dilated lateral ventricles in infants with congenital hydrocephalus in Bandung, Indonesia
 - A-0124 **Flash** Yudhadi AR (IDN): Problems in management of congenital hydrocephalus in rural areas of Garut-Indonesia: three years working experience
 - A-0131 **Flash** Alojjan A (SAU): The impact of strict shunt protocol on reducing the infection rate following shunt placement: a prospective cohort study
 - A-0146 **Flash** Wittayanakorn N (THA): Preferences in the diagnosis and treatment of pediatric hydrocephalus among Thai neurosurgeons
 - A-0041 **Flash** Torio JE (PHI): Ventriculoperitoneal shunt insertion as primary surgical management for pediatric idiopathic intracranial hypertension in low- and middle-income countries: a case report and review of related literature
 - A-0114 **Flash** Lazuardy MA (IDN): Treatment of pediatric shunt infections in INDONESIA: a single-center experience
 - A-0056 **Flash** Joko M (JPN): Diagnosis and treatment of cerebrospinal fluid leakage in children Q&A

17:20-18:20

Educational session 3: From basic to advanced management—Pediatric epilepsy

Chairpersons: **Cai L (CHN)**, **Kunii N (JPN)**

- 17:20-17:40 **Weiner HL (USA)**: Evolution of Pediatric Epilepsy Surgery over 25 years
- 17:40-17:55 **Heppner P (NZL)**: Pediatric epilepsy surgery in Asia-Australasia
- 17:55-18:05 **Iwasaki M (JPN)**: Pediatric epilepsy surgery in Japan
- 18:05-18:15 **Cai L (CHN)**: Disconnection surgery in pediatric intractable epilepsy
- 18:15-18:25 **Phi JH (KOR)**: Preoperative focus localization and surgery in pediatric epilepsy

Room B

15:40-16:10

Poster session 1

Chairpersons: Miyairi Y (JPN), Kurimoto M (JPN)

- A-0140 Lim M (MYS): Surgical approaches for benign craniovertebral tumours in paediatric patients: A local experience analysis
- A-0081 Alojlan A (SAU): Unusual presentation of Dandy Walker syndrome as cervico-thoracic syrinx: Case report and literature review
- A-0181 Yamanaka T (JPN): A case of intractable hydrocephalus due to choroid plexus hyperplasia associated with 9p tetrasomy/hexasomy mosaic
- A-0084 Nakanishi Y (JPN): Limited dorsal myeloschisis associated with intramedullary infantile hemangioma in the conus medullaris: a case report
- A-0068 Shimizu T (JPN): A case of Alagille syndrome associated with craniosynostosis
- A-0082 Yamada H (JPN): Helmet Therapy for brachycephaly
- A-0155 Tran D (VNM): Intrinsic brainstem epidermoid CYST. a rare case report
- A-0021 Jung T (KOR): Radiologic follow-up of ruptured arachnoid cysts with or without hemorrhage
- A-0023 Biroe T (IDN): Surgical management of pediatric middle cranial fossa large arachnoid cyst associated with hemiparesis: case report

16:10-16:40

Poster session 2

Chairpersons: Ishida J (JPN), Yamanaka T (JPN)

- A-0059 Tan A (SGP): Novel use of Gamma Knife Radiosurgery in the treatment of cerebral Hepatoblastoma metastasis
- A-0075 Park S (KOR): Staged operation with Ommaya reservoir placement for cystic craniopharyngioma
- A-0107 Ujat A (MYS): Smooth muscle tumor post Epstein Barr virus infection in patient with likely primary immunodeficiency disorder
- A-0111 Ujat A (MYS): High grade tumor mimicking vascular anomaly
- A-0119 Zakaria E (MYS): Two case studies describing rapid growth of childhood intracranial teratoma
- A-0139 Zakaria E (MYS): The invisible culprit: A case of unexplained communicating hydrocephalus in a toddler as the first presentation of an intracranial teratoma
- A-0179 Chen S (TWN): The Role of Heat Shock Protein 70 in Stemness and Drug Resistance of Medulloblastoma
- A-0180 Wu Y (SGP): Giant supratentorial brain tumours: case series from a Singapore children's hospital



Program

17:20-17:50

Poster session 3

Chairpersons: [Oyoshi T \(JPN\)](#), [Tamura G \(JPN\)](#)

- A-0145 Sun Y (CHN): Surgical management of drug-refractory epilepsy associated with GATOR1 variation related malformation of cortical development
- A-0105 Ujat A (MYS): Child with unexplained visual loss – Rare vascular compression on anterior optic pathway
- A-0054 Kadono Y (JPN): A case of ruptured pediatric cervical perimedullary arteriovenous fistula treated with endovascular embolization.
- A-0157 Ko J (KOR): Massive intracerebral hemorrhage caused by a cavernous malformation

17:50-18:20

Poster session 4

Chairpersons: [Ito M \(JPN\)](#), [Kono M \(JPN\)](#)

- A-0099 Chung Y (KOR): A Case of traumatic orbital roof fracture with a good outcome in young children due to stick of traditional small hand drum(percussion instrument)
- A-0147 Biroe T (IDN): Case report : management of traumatic supra and infra tentorial epidural hematoma in pediatric case
- A-0057 Eric Nyam T (TWN): Huge intracranial abscess causing significant mass effect and neurologic deficit with lumbar spine extension after ENT sinusectomy
- A-0199 Wiyanjana K (IDN): Surgical Nuance of Lumbosacral Lipomyelocystocele with Tethered Cord in 6-Month-Old Patient
- A-0156 Tran D (VNM): Biopsy in diffuse brainstem glioma: results of 15 cases at Viet DUC Hospital
- A-0062 Foo A (SGP): Robot-guided stereotactic biopsy - results of a single centre experience

Friday, December 15 3rd day

Room A

8:30-9:30

Symposium 7: Tethered cord syndrome: how to diagnose, when and how to operate?

Chairpersons: Kuo MF (TWN), Yoshifuji K (JPN)

AASP Faculty lectures

- 8:30-8:45 Seow WT (SGP): Diagnosis, surgical procedure, and prevention of re-tethering
8:45-8:55 Hayashi T (JPN): Diagnosis, surgical procedure, and prevention of re-tethering
8:55-9:05 Kusuma AA (IND): How I manage tethered cord syndrome
9:05-9:15 Zaw HH (MMR): How I manage tethered cord syndrome
9:15-9:30 Discussion

9:30-10:40

Symposium 8: Surgery for pediatric hypertonia

Chairpersons: Xiao Bo (CHN), Kishima H (JPN)

- 9:30-9:50 **Invited lecture**
Pettorini B (UK): Rhizotomy vs. Intrathecal Baclofen treatment (ITB), how to start spasticity unit
AASP Faculty lectures
9:50-10:10 Horisawa S (JPN): ITB in Asia-Australasia
10:10-10:30 Xiao B (CHN): Neurophysiology and surgery of dorsal rhizotomy
10:30-10:40 Discussion

10:50-11:40

🌸 Invited lecture: Neurofluid: a new concept of the CNS fluid dynamics

Chairpersons: Akai T (JPN), Hayashi Y (JPN)

- 10:50-11:20 Miura M (JPN): Neurofluid (basic): its extra-vascular fluid pathway
11:20-11:40 Takahashi K (JPN): Neurofluid (clinical): pediatric posttraumatic low ICP syndrome



4th Congress of Asian-Australasian Society for Pediatric Neurosurgery (AASPAN 2023 Yokohama, Japan)

Theme: Controversies in Pediatric Neurosurgery

Program

11:40-12:40

Symposium 9: Management of neonatal intraventricular hemorrhage (IVH) & subsequent hydrocephalus

Chairpersons: **Heppner P (NZL)**, **Ishizaki R (JPN)**

11:40-11:55 **Invited lecture**

Thomale UW(DEU): The latest management of neonatal IVH in Europe

AASPAN faculty lectures

11:55-12:10 **Park YS (JPN)**: Management of neonatal IVH in Japan

12:10-12:25 **Sobana M (IND)**: Management of neonatal IVH in low-middle income countries (LMIC)

12:25-12:40 Discussion

12:50-13:50

Meet experts 3 (Luncheon seminar):

Surgery for pediatric congenital deformative craniovertebral junction (CVJ) lesions

Chairpersons: **Nakase H (JPN)**, **Ogiwara H (JPN)**

12:50-13:10 **Brockmeyer DL (USA)**: Complex deformative CVJ surgery in children

13:10-13:25 **Alias A (MYS)**: Anterior or posterior approach to complex CVJ lesions in children

13:25-13:40 **Ando R (JPN)**: Management of complex CVJ surgery in children

13:40-13:50 Discussion

14:00-15:10

Symposium 10: Moyamoya disease: what is the best practice?

Chairpersons: **Kim SK (KOR)**, **Hara S (JPN)**

14:00-14:15 **Invited lecture**

Kuroda S (JPN): Japanese Guideline of Moyamoya disease

14:15-14:30 **Invited lecture**

Smith ER (USA): Urinary biomarkers of moyamoya disease

AASPAN faculty lectures

14:30-14:45 **Kuo MF (TWN)**: Management of pediatric moyamoya disease in Asia

14:45-14:55 **Dorjsuren B (MNG)**: First Moyamoya surgery in Mongolia

14:55-15:10 Discussion

3rd day

Room A

15:10-17:00

✿ **Special session: Controversies in surgical management of pediatric brain tumors**

Chairpersons: Ra YS (KOR), Alias A (MYS), Yamamoto T (JPN)

1: What is the best practice for pediatric craniopharyngioma?

15:10-15:20 Constantini S (ISR): Answer

15:20-15:30 Kim SD (KOR): Answer

15:30-15:40 Gong J (CHN): Answer

15:40-15:50 Boop F(USA): Answer

15:50-16:00 Discussion

2: Convection Enhanced Delivery in Diffuse Intrinsic Pontine Glioma (DIPG): does it the way to go?

16:00-16:10 Jallo G (USA): Answer

16:10-16:20 Saito R (JPN): Answer

16:20-16:30 Discussion

3: Low grade glioma as an incidentaloma: Surgery or observation?

16:30-16:40 Thomale UW (DEU): Answer

16:40-16:50 Baticulon R (PHL): Answer

16:50-17:00 Discussion

17:00-17:10

✿ **Closing remarks** Shirane R, Morota N

Room C

8:30-9:45

Educational session 4: From basic to advanced management—surgery for syndromic, complex craniosynostosis

Chairpersons: Thu M (MMR), Usami K (JPN)

8:30-8:45 Ahn ES (USA): Endoscopic vs. open surgery: Long-term outcomes

8:45-9:00 DiRocco F (FRA): Management of associated tonsillar herniation

9:00-9:15 Sun P (USA): Minimally invasive craniosynostosis surgery

9:15-9:30 Thanh Can DD (VNM): How I operate complex craniosynostosis

9:30-9:45 Tamada I (JPN): How I operate complex craniosynostosis



Program

9:50-10:40

Symposium 11: Intraoperative neurophysiological monitoring (IONM)

Chairpersons: Shim KW(KOR), Ihara S (JPN)

9:50-10:10

Invited lecture

Sala F (ITA): Evolution of intraoperative neurophysiological monitoring in pediatric neurosurgery

AASPN faculty lectures

10:10-10:20

Takatani T (JPN): IONM in brain surgery in Asia-Australasia

10:20-10:30

Usami K (JPN): IONM in pediatric spinal surgery

10:30-10:40

Discussion

11:40-12:40

Oral presentation 10: DYSRAPHISM

Chairpersons: Kimiwada T (JPN), Kong V (KHM)

A-0118

Oral

Lee JY (KOR): Myelomeningocele as an anomaly of secondary neurulation

A-0133

Oral

Kimiwada T (JPN): Is tethered cord release recommended to maintain or improve urinary tract function in patients with myelomeningocele?

A-0007

Flash

Makino K (JPN): A case of thoracic meningomyelocele associated with mature teratoma

A-0083

Flash

Sendjaja A (IDN): Neural Tube Defects cases in an Indonesian Referral Hospital : A 5-Year Epidemiological Study

A-0103

Flash

Mya Phyu A (MMR): Terminal Myelocystocele cases, personal experience in Northhokkalapa General Hospital, Myanmar and Ibaraki Children's Hospital, Japan

A-0163

Flash

King SH (TWN): Time window for neurosurgical management of currarino syndrome: case illustration

A-0178

Flash

Zhao Q (CHN): Occurrence and related treatment of Tethered cord in children with Anorectal malformation

A-0096

Flash

Ogiwara H (JPN): Prevention of retethering in untethering surgery of a tight filum terminale

A-0095

Flash

Kono M (JPN): The optimal timing to record the baseline of intraoperative bulbocavernosus reflex monitoring

A-0136

Flash

Ito M (JPN): Image overlay surgery attempt of spinal dysraphism

A-0193

Flash

Zaragita N (IDN): Human tail with tethered cord management: experience in two cases

A-0173

Flash

Shimoji K (JPN): Two cases of vanishing cerebellum associated with myelomeningocele

Q&A

12:50-13:50

Meet experts 4 (Luncheon seminar):

How to start up intraoperative neurophysiological monitoring in pediatric neurosurgery

Chairpersons: Kong V (KHM), Sugano H (JPN)

- 12:50-13:10 Sala F (ITA): Brain surgery: motor, sensory & language mapping
- 13:10-13:30 Weiner HL (USA): Epilepsy Surgery for Children: focus versus network
- 13:30-13:50 Takatani T (JPN): Spinal surgery: motor, sensory & urinary function

14:00-14:40

Oral presentation 11 : EPILEPSY 1

Chairpersons: Sugano H (JPN), Nomura S (JPN)

- A-0060 Oral Uda T (JPN): Appropriate use of different surgical approaches and surgical outcomes in hemispherotomy
- A-0005 Oral Jiang W (CHN): Quantitative differences in triggered electromyography during selective dorsal rhizotomy in children with spastic cerebral palsy of different motor functions
- A-0135 Flash Said Mogutham NN (MYS): Predicting efficacy of vagal nerve stimulation (VNS) surgery among medically refractory pediatric epilepsy patients in hospital Tunku Azizah (HTA): a cohort observational study
- A-0011 Flash Fujimoto A (JPN): Finger movement functions remain in the ipsilesional hemisphere and compensation by the contralesional hemisphere might not be expected after hemispherotomy -pre- and post-hemispherotomy evaluations in 8 cases-
- A-0012 Flash Zhao R (CHN): Safety, accuracy and efficacy of robot-assisted stereo-electroencephalography in children of different ages
- A-0079 Flash Yindeedej V (JPN): Merit of endoscopic posterior approach for total callosotomy
- A-0086 Flash Mitsuhashi T (JPN): Detection of absence seizures using a glasses-type eye tracker
- A-0015 Flash Zhan Q (CHN): Short-term change of tibial torsion in children with spastic cerebral palsy after selective dorsal rhizotomy
Q&A

14:40-15:30

Oral presentation 12: EPILEPSY 2

Chairpersons: Murakami N (JPN), Fujimoto A (JPN)

- A-0020 Oral Mispan K (MYS): Clinical outcome of epilepsy surgery of the temporal lobe in pediatric group: a retrospective cohort study
- A-0035 Oral Kim D-S (KOR): Long-term outcome of resective epilepsy surgery in patients with Lennox-Gastaut syndrome
- A-0090 Flash Sugano H (JPN): Proper therapy selection improves epilepsy outcomes in patients with multilobar Sturge-Weber syndrome



Program

- A-0134 **Flash** Chen H-H (TWN): Epilepsy surgery outcome for long-term epilepsy-associated tumors (LEATs)
- A-0144 **Flash** Nam Thang L (VNM): Results of treatment of intractable epilepsy with hemispherotomy surgery at Vietnam National Hospital of Pediatrics
- A-0150 **Flash** Tamura G (JPN): Characteristics of the "super responders" to vagus nerve stimulation in pediatric intractable epilepsy
- A-0198 **Flash** Iimura Y (JPN): Hemispherectomy at less than 8 months of age contributes to earlier acquisition of language and motor functions
- Q&A

15:30-16:10

Oral presentation 13: ARACHNOID CYST

Chairpersons: **Ohe N (JPN)**, **Tsurubuchi T (JPN)**

- A-0053 **Oral** Huang P-C (TWN): Arachnoid cyst presenting psychotic disorders in pediatric population: case series and systemic literature review
- A-0115 **Oral** Liu Y (CHN): Absence of membranous obstruction in the posterior fossa for pediatric Blake's pouch cyst with hydrocephalus
- A-0018 **Flash** Winardi W (TWN): Prepontine arachnoid cyst in an 8-month-old infant presenting with third and fourth cranial nerve palsy
- A-0027 **Flash** Murakami N (JPN): Expanding ventricular diverticulum overlying the cerebral hemisphere through an open-lip schizencephalic cleft: a presentation of two pediatric cases
- A-0031 **Flash** Matsumoto S (JPN): Endoscopic treatment for symptomatic suprasellar arachnoid cysts in children; a single center experience
- A-0040 **Flash** Uematsu K (JPN): An infantile case of symptomatic cerebellopontine angle arachnoid cyst treated with microsurgical fenestration.
- A-0071 **Flash** Akutagawa K (JPN): Surgical treatment of a rare case of lateral thoracic meningocele.
- A-0149 **Flash** Kim T (JPN): Surgical treatment and developmental evaluation in primary interhemispheric arachnoid cysts with dysgenesis of the corpus callosum
- Q&A

16:10-16:50

Oral presentation 14: OTHERS

Chairpersons: **Miyagawa T (JPN)**, **Kagawa N (JPN)**

- A-0034 **Flash** Zheng Y (SGP): Management of first recurrence or progression of craniopharyngioma after resection alone in the pediatric population: a systematic review and individual-participant data meta-analysis
- A-0043 **Flash** Ishizaki R (JPN): The utility of prone flexion MRI after filum terminale transection surgery

- A-0188 Oral Heppner P (NZL): Validation of the Kitea implantable ICP monitoring system in a chronic sheep model
- A-0003 Flash Koirala S (NPL): Scope of pediatric neurosurgery as a subspeciality in a neurosurgical referral centre of a low income country
- A-0061 Flash Miyagawa T (JPN): Intracranial pressure based decision making: Prediction of suspected increased intracranial pressure with machine learning
- A-0048 Flash Nagakura M (JPN): A case of craniometaphyseal dysplasia successfully treated by preoperative study using a 3D printer
- A-0069 Flash Zheng E (JPN): Regression of periventricular anastomosis after indirect revascularization in pediatric patients with moyamoya disease
- A-0080 Flash Adachi K (JPN): A case of cerebellar hemorrhage in a newborn: cerebellar hemorrhage association with suspected arterial dissection of the posterior inferior cerebellar artery
- A-0175 Flash Zhao Q (CHN): Clinical study on hybrid operation for brain arteriovenous malformations in children
- A-0176 Flash Watanabe C (JPN): A case of a large fenestrated aneurysm of the vertebrobasilar junction in a 5-year-old boy treated with stent-assisted coil embolization.
- A-0194 Flash Fuad N (MYS): Pediatric basilar aneurysm: surgical decision-making and technical nuances for optimal management – a case report
Q&A