

Preface : Invited Issue Editor, Professor Edward R. Smith, and the Pediatric Vascular Malformations of the Central Nervous System

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The Korean Society for Pediatric Neurosurgery (KSPN) published its journal, the *Korean Journal of Pediatric Neurosurgery (KJPN)*, in 2004. *KJPN* was operated in a mixed Korean/English language and had contributed significantly to sharing and disseminating clinical experience in pediatric neurosurgery. However, due to the limited number of KSPN members, the number of submitted manuscripts was not sufficient. Moreover, they faced many difficulties in competing for manuscript publication with child's nervous system, which has been approved as an official journal of KSPN since 1998. In September 2014, *KJPN* closed its last issue with Volume 11, Issue 1.

KSPN replaced *KJPN* and has been publishing the *Pediatric Issue* as a supplement to the *Journal of the Korean Neurosurgical Society (JKNS)*, the official journal of the Korean Neurosurgical Society, since 2015. '*JKNS : Pediatric Issue*' is published annually in May to commemorate Korea's Children's Day on the 5th, featuring the cover of *JKNS* for that month. 2024 marks the 10th anniversary of the publication of *JKNS :*

Pediatric Issue. This journal has published over 10 review articles on specific topics (Table 1) and has welcomed eight world-renowned scholars in the field of pediatric neurosurgery as invited editors (Fig. 1). *JKNS : Pediatric Issue* contributes to improving the academic level of *JKNS* as well as pediatric neurosurgery.

The topic of the 2024 *JKNS : Pediatric Issue* is 'pediatric vascular malformations of central nervous system (CNS)', which was organized by the issue's invited editor, professor Edwards R. Smith, a world-famous pioneer in the field (Fig. 2).

Professor Smith's training included an undergraduate education at Dartmouth College and medical school at the Columbia University College of Physicians and Surgeons. He completed his surgical internship and neurosurgical residency at Massachusetts General Hospital. This was followed by a pediatric neurosurgery fellowship at the Boston Children's Hospital/Harvard Medical School program, and an NIH-funded postdoctoral training in the Vascular Biology Program with Dr. Marsha Moses. He is a professor at Harvard Medical

• Received : February 23, 2024 • Revised : March 3, 2024 • Accepted : March 4, 2024

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Table 1. Contents of JKNS : Pediatric Issue (2015 to 2024)

Issue	Topic	Editor	Number of articles	International corresponding authors
Vol. 57(6) Jun 2015	Moyamoya disease	Kyu-Chang Wang, Seung-Ki Kim	10	Edward R. Smith (Children' Hospital Boston)
Vol 59(3) May 2016	Craniosynostosis	Joon-Ki Kang (invited), Kyu-Chang Wang, Seung-Ki Kim	11	Hiroaki Sakamoto (Osaka City General Hospital), Akira Gomi (Jichi Children's Medical Center)
Vol 60(3) May 2017, Vol 60(5) Sep 2017	The era of neuroendoscopy	Joong-Uhn Choi (invited), Kyu-Chang Wang, Seung-Ki Kim	11	Kenichi Nishiyama (Niigata Medical Center), Chandrashekhar E. Deopujari (Bombay Hospital Institute of Medical Science)
Vol 61(3) May 2018	Pediatric malignant brain cancers in the molecular era	James T. Rutka (invited), Kyu-Chang Wang, Seung-Ki Kim	12	James T. Rutka, Michael D. Taylor, Annie Huang, Uri Tabori (Hospital for Sick Children)
Vol 62(3) May 2019	Pediatric epilepsy surgery	Byung-Kyu Cho (invited), Kyu-Chang Wang, Seung-Ki Kim	12	Benjamin C. Kennedy (Children's Hospital of Philadelphia), Ki Hyeon Lee (AdventHealth for Children)
Vol 63(3) May 2020	The changing concepts in spinal dysraphism during the last two decades	Dachling Pang (invited), Seung-Ki Kim, Chae-Yong Kim	10	Dachling Pang (Great Ormond Street Hospital for Children)
Vol 64(3) May 2021	Secondary neurulation : the current central topic in spinal dysraphism	Kyu-Chang Wang (invited), Seung-Ki Kim, Chae-Yong Kim	10	Dominic Nolan Paul Thompson (Great Ormond Street Hospital for Children), Sayaka Tojima (Osaka City University), Martin Catala (Sorbonne Université), Yoshiko Takahashi (Kyoto University)
Vol 65(3) May 2022	Pediatric neurotrauma and child abuse	Seung-Ki Kim, Chae-Yong Kim	10	Masahiro Nonaka (Kansai Medical University), Young Soo Park (Nara Medical University)
Vol 66(3) May 2023	Intraventricular hemorrhage and posthemorrhagic hydrocephalus in preterm infants	Young Soo Park (invited), Seung-Ki Kim, Chae-Yong Kim	9	Pei-Chen Tsao (Taipei Veterans General Hospital), Shunsuke Ichi (Japanese Red Cross Medical Center), Young Soo Park (Nara Medical University), Atsuko Harada (Takatsuki General Hospital)
Vol 67(3) May 2024	Pediatric vascular malformations of the central nervous system	Edward R. Smith (invited), Seung-Ki Kim, Jun Bum Park	8	Adikarige Haritha Dulanka Silva (Great Ormond Street Hospital for Children), Edward R. Smith, Alfred Pokmeng See (Children' Hospital Boston)



Fig. 1. The invited editors of the *Journal of Korean Neurosurgery Society : Pediatric Issue*. From top left to bottom right : Joon-Ki Kang, Joong-Uhn Choi, James T. Rutka, Byung-Kyu Cho, Dachling Pang, Kyu-Chang Wang, Young Soo Park, and Edward R. Smith.



Fig. 2. Portrait of Professor Edward R. Smith.

School and the R. Michael Scott endowed chair in neurosurgery at Boston Children's Hospital. He serves as the co-director of the Cerebrovascular Surgery and Interventions Center and vice-chair of the #1-ranked department of pediatric neurosurgery in the USA. Additionally, he leads a translational research laboratory in the vascular biology program, focusing on the development of non-invasive biomarkers and novel therapies for brain tumors and stroke. He heads one of the

largest pediatric cerebrovascular programs in the country, and innovations from his research and clinical efforts have been incorporated in current national guidelines, with the goal of improving patient outcomes.

The articles in this *JKNS : Pediatric Issue* (pediatric vascular malformations of CNS) will undoubtedly provide readers with current concepts and future management for pediatric vascular malformations. Leading clinicians in the field from USA, UK, and Korea contributed eight articles, and worldclass scholars participated in the writing of this *JKNS : Pediatric Issue*.

Dr. Se Hoon Kim (pathologist, Korea) wrote a pathological review of vascular malformation of the CNS in children with diagram, and Dr. Ji Hye Kim (radiologist, Korea) summarized neuroimaging of pediatric cerebral vascular malformations. Dr. Adikarige Haritha Dulanka Silva from UK reviewed the natural history and clinical manifestation of pediatric arteriovenous malformations (AVMs). For the treatment of pediatric vascular malformation, Dr. Edward Smith summarized the treatment of pediatric AVMs and Dr. Ji Hoon Phi (Korea) summarized the clinical features and treatment of cerebral cavernous malformations (CCMs). Dr. Hyun-Seung Kang (Korea) reviewed the vein of Galen malformation (VOGM). Dr. Alfred Pokmeng See from USA summarized the scalp and facial vascular malformations in children.

We deeply appreciate the brilliant minds that have actively

participated in the publication of the 2024 *JKNS : Pediatric Issue*. Through this *JKNS : Pediatric Issue*, we hope that many doctors who face and treat the patient suffered from AVMs, CCMs, and VOGM will acquire basic and up-to-date knowledge about pediatric vascular malformations. We also hope that these small efforts will help improve the outcome of children with cerebral vascular malformations.

AUTHORS' DECLARATION

Conflicts of interest

No other potential conflict of interest relevant to this article was reported.

Author contributions

Conceptualization : JBP, SKK; Data curation : JBP; Formal analysis : JBP, SKK; Methodology : JBP; Project administration : SKK; Visualization : JBP; Writing - original draft : JBP; Writing - review & editing : SKK, JBP

Data sharing

None

Preprint

None

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