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Early obliteration of pediatric brain arteriovenous malformations after stereotactic radiosurgery: an international multicenter study

in Journal of Neurosurgery: Pediatrics

Authors: Rebecca M. Burke, Ching-Jen Chen, Dale Ding, Thomas J. Buell, Jennifer D. Sokolowski, Cheng-Chia Lee, Hideyuki Kano, Kathryn N. Kearns, Shih-Wei Tzeng, Huai-che Yang, Paul P. Huang, Douglas Kondziolka, Natasha Ironside, David Mathieu, Christian Iorio-Morin, Inga S. Grills, Caleb Feliciano, Gene H. Barnett, Robert M. Starke, L. Dade Lunsford and Jason P. Sheehan

In Brief

The authors' study is the first to evaluate predictors of early obliteration of brain arteriovenous malformations (AVMs) in an exclusively pediatric cohort. It is well known that pediatric AVMs are distinct from their adult counterparts and therefore data regarding adult brain AVMs cannot be generalized to the pediatric population. Similarly, hemorrhage secondary to pediatric brain AVMs causes considerable morbidity and mortality. The

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results of the present study help identify particularly radiosensitive pediatric AVMs, which may facilitate prognostication and management decisions in this unique patient population.

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DOI: <https://doi.org/10.3171/2020.4.PEDS19738>

Multiple hippocampal transections for refractory pediatric mesial temporal lobe epilepsy: seizure and neuropsychological outcomes

in *Journal of Neurosurgery: Pediatrics*

Authors: Ahmad Marashly, Jennifer Koop, Michelle Loman, Irene Kim, Mohit Maheshwari and Sean M. Lew

In Brief

The authors studied the seizure and cognitive outcomes of a relatively new surgical procedure called multiple hippocampal transections in the treatment of refractory epilepsy in a group of 3 pediatric patients. This paper will add to the limited existing literature and help expand the indications of multiple hippocampal transections as it highlights the new procedure's effectiveness in pediatric patients.

Online Publication Date: 26 Jun 2020

DOI: <https://doi.org/10.3171/2020.4.PEDS19760>

Reliability and quality of online patient education videos for lateral lumbar interbody fusion

in *Journal of Neurosurgery: Spine*

Authors: Michael D. White, Kristy Latour, Martina Giordano, Tavis Taylor and Nitin Agarwal

In Brief

The authors used a validated instrument for evaluating health information, the DISCERN tool, to assess the quality of online patient education videos pertaining to lateral lumbar interbody fusion (LLIF). An important finding was that the vast majority of LLIF educational content available online presents information of moderate rather than high overall quality. This study demonstrates a method that can be used to determine the value of current patient education videos as well as to guide efforts to provide LLIF educational content of the highest quality.

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Two different types of postoperative sagittal imbalance after long instrumented fusion to the sacrum for degenerative sagittal imbalance

in *Journal of Neurosurgery: Spine*

Authors: Hyung-Youl Park, Young-Hoon Kim, Sang-Il Kim, Sung-Bin Han and Kee-Yong Ha

In Brief

The authors investigated risk factors between 2 types of postoperative sagittal imbalance—proximal kyphosis and dynamic sagittal balance—after long fusion to the sacrum for the treatment of degenerative sagittal imbalance (DSI). Dynamic sagittal imbalance might develop in the form of progressive decompensation through the hip joints due to weakness of hip and back muscles in patients with less correction of sagittal alignment, more fusion levels, and atrophy of the paravertebral muscles. Clinical outcomes in the dynamic sagittal imbalance group were superior to those in the proximal kyphosis group. Optimal correction of sagittal alignment should be considered in long instrumented fusion for DSI.

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Growing rod technique with prior foundation surgery and sublaminar taping for early-onset scoliosis

in *Journal of Neurosurgery: Spine*

Authors: Takafumi Chiba, Satoshi Inami, Hiroshi Moridaira, Daisaku Takeuchi, Tsuyoshi Sorimachi, Haruki Ueda, Makoto Ohe, Hiromichi Aoki, Takuya Iimura, Yutaka Nohara and Hiroshi Taneichi

In Brief

The objective of the study was to show the surgical results of growing rod surgery after prior foundation surgery and sublaminar taping. This technique yielded effective correction of scoliotic curves and a lower complication rate than those in previous reports. This technique is significant because it produces a good surgical result in patients with early-onset scoliosis.

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Preoperative factors associated with adverse events during awake craniotomy: analysis of 609 consecutive cases

in *Journal of Neurosurgery*

Authors: Hirokazu Takami, Nikki Khoshnood and Mark Bernstein

In Brief

The authors sought to determine clinical and imaging characteristics that may be useful in preoperative assessment of neurosurgical patients who may benefit from awake craniotomies. Important findings were that preoperative physical status was the most decisive factor in predicting whether patients can tolerate an awake craniotomy without complications, whereas older age and history of psychiatric treatment were not necessarily associated with adverse events. This study is important because it demonstrates that careful preoperative patient selection is the key to success for awake surgery.

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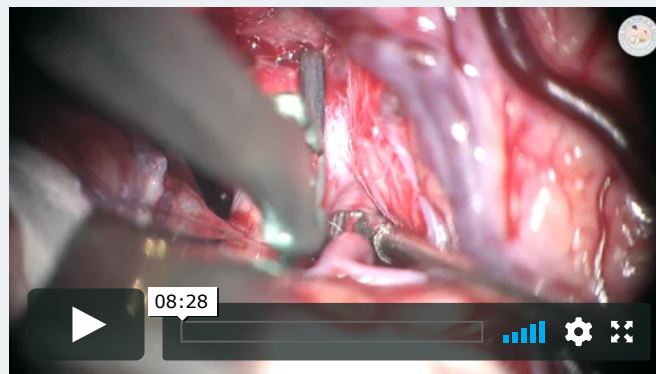
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