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Treatment of pediatric traumatic intracranial pseudoaneurysm using endovascular covered stent: Three case reports

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Background: Pediatric traumatic intracranial pseudoaneurysm (TIPA) is a relatively rare clinical entity resulting from blunt, penetrating or iatrogenic head trauma. The diagnosis, management and prognosis of patients with pediatric TIPA is not well-understood. Surgical craniotomy for TIPA is a high-risk operation. Advancements in minimally-invasive technology have allowed for endovascular reconstruction of TIPA.

Case reports: We present our experience with use of endovascular covered stents for treatment of three pediatric cases with TIPA. The clinical and radiological characteristics are presented. No procedure-related complications or deaths occurred during follow-up.

Conclusions: In this study, the use of Willis covered stent was associated with favorable prognoses in 3 patients with TIPA. No major complications were encountered during follow-up. The Willis covered stent appears to be a viable therapeutic modality in these patients. A definitive prognosis assessment will necessitate prospective clinical trials with longer duration of follow-up.

Biography

Peng Liu got his MD & PhD degree of Neurosurgery in 2011 from Southern Medical University. He also has been a Post-doctoral Visiting Professor at Department of Biomedical Engineering of State University of New York at Stony Brook, USA. He is the Associate Professor of Department of Neurosurgery of Wuhan General Hospital of Guangzhou Military Command in Southern Medical University. His clinical skills includes cerebrovascular surgery (endovascular treatment of intracranial aneurysms, arteriovenous malformation and fistula, endovascular treatment of spinal vascular diseases, endovascular treatment of cerebral ischemic diseases, clipping of intracranial aneurysms, total resection of AVMs, craniocerebral injury surgery and neuro-oncology surgery.

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