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January 22–23, 2018 Los Angeles, CA Endovascular Treatment of Cerebral Aneurysms Using LVIS Jr Stent: Mid-term Clinical and Angiographic Results

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complications. Patients with acute SAH due

to dissecting or wide-neck ruptured

aneurysms can be treated under special

considerations.

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Introduction

This report details our experience with the Low-profile Visualized Intraluminal Support Junior (LVIS Jr.) device (MicroVention-Terumo, Inc., Tustin, CA), with an emphasis on evolving treatment strategies, feasibility, complication rates and outcomes

Methods

We retrospectively reviewed records of patients treated with the LVIS Jr. device for intracranial aneurysms in Medellin and Bogotá, Colombia

Results

254 patients with 279 aneurysms underwent aneurysm treatment with LVIS Jr during a 36-month study period. Stent deployment was successful in 100% of cases. 227 aneurysms were treated with stent-assisted coil embolization resulting in immediate complete occlusion in 90% of cases. 55 lesions were treated with stentalone approach: 21 dissecting, blood blister-like aneurysms treated without coils, and 34 small aneurysms which treatment was planned in stages with further coiling after endothelization in 14. Imaging follow-up was available for 104 aneurysms. None major recanalization for retreatment was observed. Seventeen patients presented with immediate thrombo-embolic complications (6.6%) and IIb-IIIa GPI administration was necessary. Eight of these strokes were associated with transient deficits, yielding a stroke rate of 3.1%. Six patients died (2.6%) due to clinical conditions, not as direct consequence of stenting. No significant in-stent stenosis, migration, delayed hemorrhage, or permanent deficits were observed. Of those patients with follow-up, a good functional outcome based on the modified Rankin Scale score (mRS = 2) was achieved in 100% of cases

