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Endovascular retrograde suction decompression-assisted clipping of a large paraclinoid aneurysm in a hybrid operating room: 2-dimensional operative video

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Surgical treatment of large paraclinoid aneurysms remains technically challenging due to the adjacent bony anatomy and neurovascular structures. Endovascular retrograde suction decompression using a double-lumen balloon catheter facilitates clip ligation of the aneurysm. This video demonstrates a large paraclinoid aneurysm that was treated with endovascular balloon occlusion and retrograde suction decompression in a hybrid operating room. A 49-year-old woman presented with progressively worsening headache. CT angiography demonstrated a large 16-mm left paraclinoid aneurysm. Neurological examination showed no deficits. Angiography with compression of the left carotid artery showed the collateral blood flow through the posterior communicating artery. The aneurysm was exposed via the pterional transsylvian approach. A double-lumen balloon guide catheter was placed in the left internal carotid artery. Considering the risk of ischemic complications, the “trapping-evacuation” technique was not used. After balloon inflation, a temporary clip was placed on the posterior communicating artery. Retrograde suction through the guide catheter decreased the intraaneurysmal pressure. Tandem clipping with fenestrated

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