Microsurgical clip reconstruction techniques for aneurysms with significant calcified neck


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A common surgical complication of clipping aneurysms with a calcified neck is the calcified atheroma compromising the parent arteries after clipping the neck. Clips can slip downward at the calcified neck or cause calcified atheroma encroaching the parent arteries. This video demonstrates a reconstructive clip technique to avoid these issues. A fenestrated clip is placed first to reconstruct the distal parent artery-aneurysm neck with the fenestrated ring over the thickest calcification. Then, a straight clip reconstructs the proximal artery-aneurysm junction, leaving the thickest point of calcified walls pinching together by themselves to achieve aneurysm occlusion while preserving the parent arteries.

The video can be found here: http://youtu.be/9CM3o5_qiNQ.

KEYWORDS aneurysm; calcified neck; clip reconstruction; video