In this technical report, we demonstrate the effective use of a minimally invasive tubular retractor system for resection of various deep-seated vascular malformations and hemorrhagic masses. In all seven patients, lesions were successfully resected and no patient suffered surgical complications.

Conclusions In this technical report, we demonstrate the effective use of a minimally invasive tubular retractor system for resection of various deep-seated vascular malformations and hemorrhagic masses. In all seven patients, lesions were successfully resected and no patient suffered surgical complications. This report shows the potential for minimally invasive techniques to adequately treat a wide variety of subcortical vascular lesions. This technique could revolutionize common approaches to open cerebrovascular surgery by mitigating neurological consequences of parenchymal insult relating to surgical retraction. Further research will determine whether minimally invasive techniques significantly improve patient outcomes.

Disclosures R. Achey: None. M. Bain: 2; C; Stryker, Cereno- vus, Microvention, Rebound Therapeutics.