

Percutaneous procedure

The [procedure](#) where access to inner organs or other tissue is done via needle-puncture of the skin, rather than by using an “open” approach where inner organs or tissue are exposed (typically with the use of a scalpel).

A growing proportion of [percutaneous](#) procedures are performed in [outpatient](#) centers. The shift from [hospitals](#) to [ambulatory surgery centers](#) and office-based laboratories has been driven by a number of factors, including declining [reimbursements](#), increased patient demand, and competition for hospital resources. This transition has been dominated by the interventional radiology, cardiology, and vascular surgery fields. [Cerebral angiography](#), in contrast, is still performed almost exclusively in a hospital-based setting, despite sharing many features with other endovascular procedures commonly performed in outpatient centers. As interest grows in performing cerebral angiography in outpatient endovascular centers, much can be learned from the decades of experience that our interventional colleagues have in the outpatient setting.

Silva et al. examined the outpatient experience of other interventional fields and apply key principles to evaluate the prospect of outpatient [neurointervention](#). The literature suggests that cerebral angiography can feasibly be performed in an outpatient center in both private and academic settings, as some groups have begun to do. Outpatient endovascular centers have helped to improve the patient experience, liberate inpatient resources, and control costs in other interventional fields, and might offer neurointerventionalists an opportunity to do the same ¹⁾.

Classification

[Percutaneous procedure classification](#)

¹⁾

Silva MA, Peterson EC. Cerebral angiography in outpatient endovascular centers: roadmap and lessons learned from interventional radiology, cardiology, and vascular surgery. J Neurointerv Surg. 2024 Jul 30;jnis-2024-022101. doi: 10.1136/jnis-2024-022101. Epub ahead of print. PMID: 39084856.

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