

Intraoperative and postoperative angiography

Due to the fact that unexpected findings (aneurysmal rest, unclipped aneurysm, or major vessel occlusion) were seen on 19% of post-op angiograms (the only predictive factor identified was a new post-op deficit, which signaled major vessel occlusion), the routine use of some confirmatory test is recommended. May also be applied to AVM surgery. Options include:

1. post-op angiography: correctable problems identified with this option require a return to the operating room, and some potentially reversible deficits may be too late to recover by that time

2. intraoperative options

- a) catheter angiography using traditional iodinated contrast and fluoroscopy. Requires the use of a radiolucent head holder. Typically the introducer sheath is placed in the [femoral artery](#) at the time of initial pre-op angio, and is left in place for intraoperative use. Requires the services of an angiographer if the surgeon does not do this

- b) visualize the vessels during surgery (has largely supplanted intra-op catheter angiography)

1. [indocyanine green](#) (ICG): can be visualized under normal light, or sometimes to better advantage when illuminated with [near-infrared light](#). Use is restricted to surface vessels. Maybe less reliable with giant or wide-neck aneurysms or with thick-walled atherosclerotic vessels

2. [fluorescein videoangiography](#)

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Last update: **2024/06/07 02:59**

