



Middle Meningeal Artery Embolization Interventional Neuroradiology→PACU

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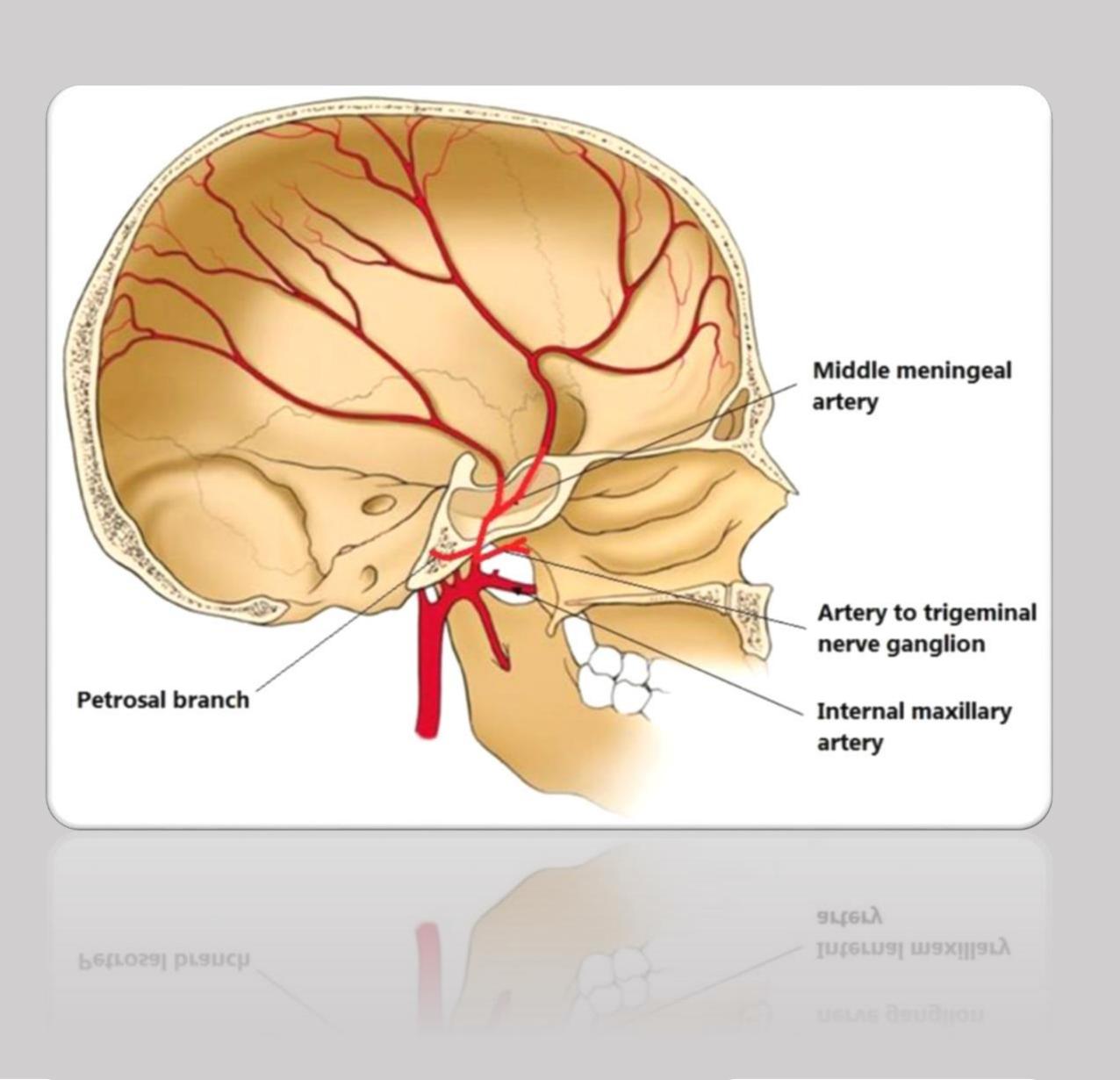
Background Information:

Chronic subdural hematoma is a common pathology that typically affects the elderly. The Middle Meningeal Artery (MMA) provides blood supply to the dura matter and feeds the membrane capillaries. In the instance of a subdural hematoma, the MMA capillaries are contributing a blood supply to the subdural hematoma. MMA embolization is a minimally invasive procedure combining angiography, microcatheters, and polyvinyl alcohol particles used to block blood flow and promote hematoma resolution. Patients undergoing (MMA) embolization routinely progress from Interventional Neuroradiology (INR) \rightarrow ICU \rightarrow Neurosurgery intermediate care \rightarrow home.

This pathway allows bypass of an ICU admission which reduces hospital length of stay (LOS).

Objectives of Project:

- Establish inclusion criteria to identify MMA
 embolization patients who are appropriate to bypass the
 ICU and receive ICU level care in the PACU
- o Improve patient safety by reducing number of transfers of care from 3 teams to 2 teams
- o Improve patient experience by decreasing LOS
- Improve utilization of ICU resources by increasing ICU bed availability



Statement of Successful Practice:

Improve patient experience and decreased LOS

Multidisciplinary
team
collaboration
enhances
communication
and patient safety

Improve ICU utilization and decrease in care team hand-offs

Staff education regarding care of this new population through in-services, the Perianesthesia SharePoint site, newsletter communication, and at the elbow support

Communication regarding patient enrollment in MMA-PACU pathway is provided to PACU, INR, ICU, and Neurosurgery inpatient teams

Process of Implementation

Multidisciplinary

collaboration

including

Neurosurgery, INR,

Nursing leadership,

ICU, PACU, and

Neurosurgery

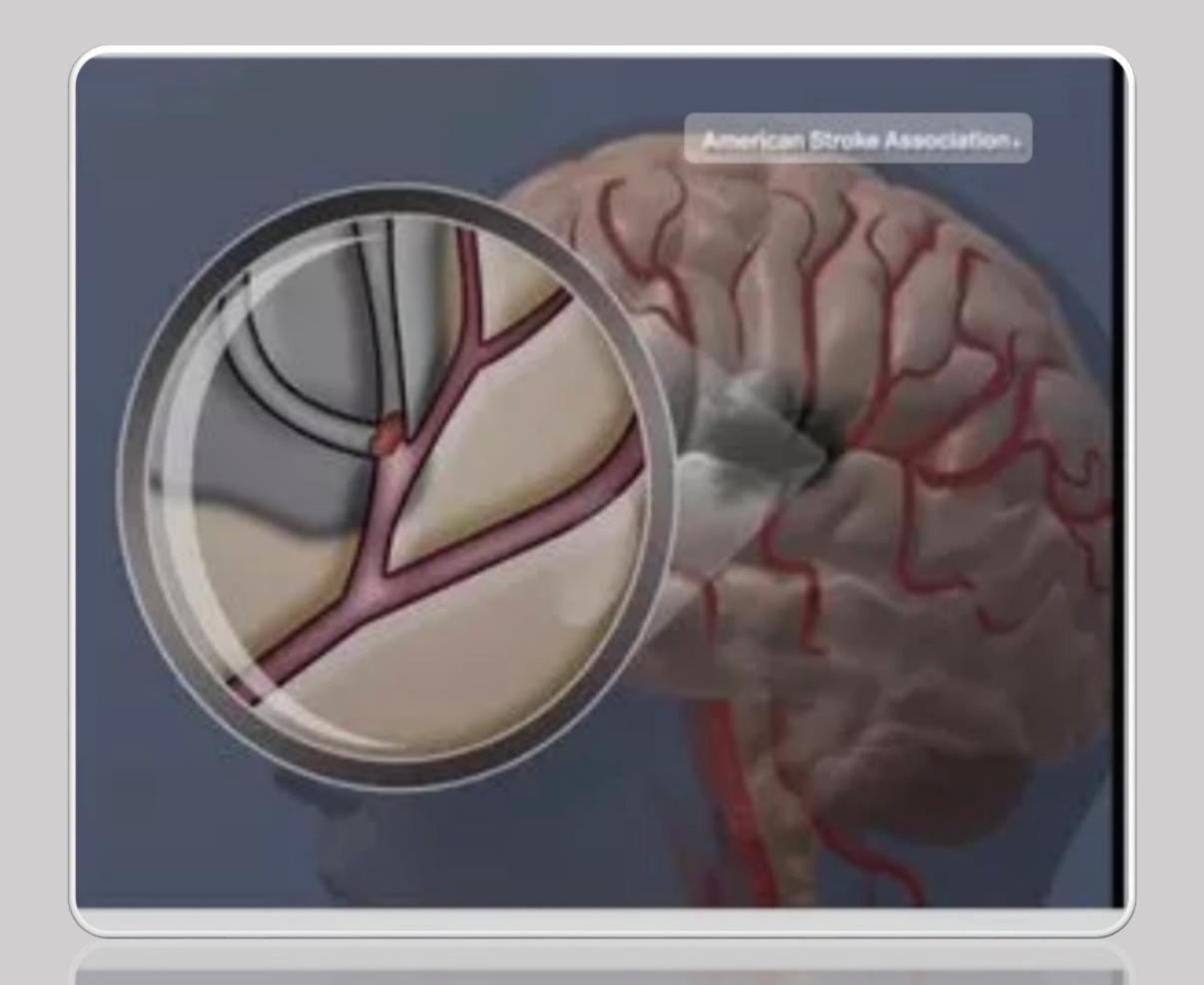
inpatient Nursing

teams

Patients who are eligible are identified pre-procedure

Implications for Advancing the Practice of Perianesthesia Nursing:

- Improve PACU staff confidence
 and competency in caring for the
 MMA embolization population
- Potential for utilizing this model for future
 INR procedures
- Improve hospital throughput



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