

Procedural Success

Procedural success in intracranial pressure (ICP) monitor placement refers to the accurate and complication-free completion of the procedure, resulting in a functional monitoring system.

A case is typically considered successful if all of the following criteria are met:

- Correct anatomical placement (confirmed radiologically or clinically)
- Immediate and stable ICP waveform acquisition
- No intraoperative or early postoperative complications (e.g., hemorrhage, misplacement)
- No need for revision or replacement within 48–72 hours

Binary Outcome for CUSUM

In the context of CUSUM analysis, procedural success is coded as:

- 0 for success
- 1 for failure (any deviation from the above criteria)

This allows straightforward tracking and visualization of performance trends over time.

Importance

Measuring procedural success consistently enables:

- Objective monitoring of technical performance
- Early identification of training needs
- Benchmarking against institutional or published standards
- Targeted interventions to reduce avoidable complications

In high-stakes environments like neurocritical care, even subtle declines in procedural success can have significant clinical impact, reinforcing the value of routine outcome tracking.

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