Technical Report

1. Introduction

Briefly introduce the topic. Include:

The clinical background or problem

Relevance to neurosurgical practice

Purpose of this report

Example: "This report outlines the implementation of a minimally invasive approach for L4-L5 microdiscectomy in patients with recurrent radiculopathy. The aim is to evaluate intraoperative feasibility and early postoperative outcomes."

2. Materials and Methods 2.1 Patient Selection (if applicable) Inclusion/exclusion criteria

Number of cases

Demographics

2.2 Technique or Procedure Detailed surgical technique

Imaging guidance (e.g., neuronavigation, intraoperative ultrasound)

Instrumentation used

2.3 Setting Institution

Operating room configuration

Team composition

3. Results Operative time, blood loss

Intraoperative complications

Length of stay

Neurological outcomes

Postoperative imaging

Follow-up duration

You can present key data in a table or figure.

4. Discussion Comparison with existing literature

Advantages/disadvantages of the approach or technology

Limitations of your study or series

Recommendations for future use

5. Conclusion Summarize findings in 2–3 sentences. Highlight clinical impact.

6. References Include any papers, devices, or guidelines cited. Use Vancouver or APA style.

Appendix (optional) Surgical images (with consent and de-identified)

Imaging sequences

Charts, checklists, or protocols used

Classification

 1. Operative Technical Report Purpose: Describes a specific surgical procedure in detail.

Audience: Surgeons, residents, medical students.

Example: "Microsurgical Technique for Clipping Middle Cerebral Artery Aneurysms"

 2. Device or Technology Report Purpose: Evaluates a new neurosurgical tool, device, or software (e.g., neuronavigation, robotics).

Audience: Clinical researchers, hospital administrators, engineers.

Example: "Initial Clinical Experience with the Synaptive Modus V Robotic Exoscope"

 3. Protocol Implementation Report Purpose: Describes the integration of a new protocol into clinical practice.

Audience: Department heads, quality and safety officers.

Example: "Enhanced Recovery After Surgery (ERAS) Protocol in Cranial Tumor Resection"

 4. Outcome Analysis Report Purpose: Presents clinical outcomes and complications based on case series or retrospective reviews.

Audience: Clinical researchers, quality improvement teams.

Example: "30-Day Readmission Rates After Lumbar Fusion in 100 Patients"

 5. Case-Based Technical Report Purpose: Combines technical detail with a single illustrative patient case.

Audience: Clinicians, journal readers.

Example: "Awake Craniotomy for Insular Glioma: A Case-Based Approach to Cortical Mapping"

 6. Quality and Safety Report Purpose: Reports incidents, near misses, or improvements in surgical safety.

Audience: Risk management, hospital accreditation bodies.

Example: "Surgical Site Infection Reduction in Spinal Instrumentation: A 2-Year Review"

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