

REVIEWER'S REPORT

Manuscript No.: IJAR-53249

Date: 12-08-2025

Title: Anterior Cervical Discectomy and Fusion (ACDF): A Review of Surgical Approaches for Cervical Spine Disorders

Recommendation:

Accept as it isYES.....

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: Dr Aamina

Reviewer's Comment for Publication.

Abstract Review:

The abstract presents a clear and concise summary of the review, outlining the scope, objectives, and methodology. It effectively highlights the historical evolution, surgical techniques, graft and instrumentation options, clinical outcomes, and complications associated with ACDF. The inclusion of a comparative perspective between anterior and posterior approaches enriches the academic value of the study. The use of a broad temporal literature review spanning 1950 to 2025 reflects comprehensive coverage. Key findings, such as high symptom resolution and fusion success rates alongside noted complications like dysphagia, adjacent segment disease, and pseudarthrosis, are well-articulated. The closing note on advancements in minimally invasive techniques and biomaterials underscores the dynamic evolution of the field.

Introduction Review:

The introduction provides a solid context for the clinical and epidemiological significance of cervical spine disorders, emphasizing their global prevalence and socioeconomic impact. Statistical data on cervical radiculopathy and myelopathy strengthens the argument for clinical relevance. The description of ACDF as the gold standard for certain pathologies is well-supported by referencing its advantages, including direct decompression and stabilization via interbody fusion. The rationale for the surgical approach is clearly presented, linking pathophysiology, patient outcomes, and surgical decision-making.

Scientific and Clinical Content Review:

The work demonstrates a strong grounding in current spine surgery literature and clinical practice. By encompassing epidemiology, surgical rationale, and procedural benefits, it sets a comprehensive foundation for the review. The discussion of complication profiles and evolving techniques suggests awareness of both historical context and modern advancements in the field.

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Clarity and Structure Review:

The writing is clear, precise, and clinically focused, making it accessible to spine surgeons, orthopedic specialists, neurosurgeons, and allied health professionals. The structure of the abstract and introduction follows academic norms for medical review articles, presenting a logical progression from clinical need to surgical solution.

Overall Assessment:

The text offers a well-organized, evidence-based foundation for a detailed review of ACDF and related surgical approaches. It combines epidemiological data, clinical justification, and procedural context in a way that supports both academic study and clinical application.