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# International Journal of Advanced Research

## Publisher's Name: Jana Publication and Research LLP

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#### REVIEWER'S REPORT

Manuscript No.: IJAR-50888 Date: 04-04-2025

Title: Cryo-bronchoscopy Breakthrough: A Rare Bronchial Mucoepidermoid Carcinoma Success Report"

Recommendation:	Rating	Excel.	Good	Fair	Poor
Accept as it isYES	Originality	$\sqrt{}$			
Accept after minor revision  Accept after major revision	Techn. Quality		$\sqrt{}$		
Do not accept (Reasons below)	Clarity		$\sqrt{}$		
,	Significance				

Reviewer's Name: Dr Aamina

Reviewer's Decision about Paper: Recommended for Publication.

**Comments** (Use additional pages, if required)

## Reviewer's Comment / Report

The case report, "Cryo-bronchoscopy Breakthrough: A Rare Bronchial Mucoepidermoid Carcinoma Success Report," presents a compelling account of a rare bronchial mucoepidermoid carcinoma (MEC) successfully managed using a minimally invasive cryo-bronchoscopy technique. The report provides a thorough clinical, pathological, and interventional assessment, making it a valuable contribution to the existing literature on rare pulmonary neoplasms.

### **Abstract Review**

The abstract effectively summarizes the case and underscores the rarity of bronchial MEC, which accounts for only 0.1–0.2% of primary lung cancers. The **concise clinical background**, **clear diagnostic approach**, and **emphasis on cryo-bronchoscopy** as a **viable alternative to** 

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**conventional surgery** enhance the significance of the report. The structured presentation, with clear differentiation between background, case presentation, and conclusion, ensures readability and scientific clarity.

## **Background Review**

The background section is well-articulated, providing a solid foundation for understanding the clinical significance of bronchial MEC. The description of its classification into **low- and high-grade forms** is relevant, as it contextualizes the therapeutic approach. Additionally, the discussion on **its histogenesis, symptoms, and the challenges in establishing management protocols** is comprehensive. The section is supported by appropriate references, reinforcing its scientific rigor.

### **Case Presentation Review**

The case presentation is detailed, methodically structured, and clinically informative.

- The patient's history, including exposure to petrochemicals but no history of smoking,
   adds valuable insight into potential risk factors.
- The thorough clinical examination and imaging findings (chest X-ray, CECT, and PET scan) establish a strong diagnostic foundation.
- The bronchoscopic findings, including the extent of airway obstruction and lesion characteristics, are clearly detailed.
- The use of cryo-biopsy for both diagnostic and therapeutic purposes is particularly noteworthy, highlighting the dual role of cryo-bronchoscopy in such cases.
- The histopathological and immunohistochemical analysis is well-explained, reinforcing the diagnostic accuracy.

The procedural details of the **successful airway recanalization using a 1.9 mm cryoprobe** are meticulously documented, with emphasis on achieving **oncological radicality without additional surgical interventions**. The post-procedure follow-up, confirming disease-free status at three months, provides strong evidence for the effectiveness of cryo-bronchoscopy.

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## Figures and Imaging Review

The report's integration of radiological (CECT, PET scan) and histopathological (H&E staining, immunohistochemistry) findings enhances its comprehensiveness. The sequential presentation of **pre-treatment imaging, intraoperative bronchoscopy, and follow-up findings** strengthens the credibility of the therapeutic outcome.

## **Conclusion Review**

The conclusion succinctly reinforces the key message of the study:

- Cryo-bronchoscopy is a promising alternative to traditional surgical approaches for earlystage bronchial MEC.
- The procedure is minimally invasive yet effective in achieving complete airway recanalization.
- Further research is needed to standardize treatment guidelines for this rare malignancy.

## **Overall Assessment**

This case report is an exemplary contribution to interventional pulmonology and oncological literature, demonstrating the feasibility of cryo-bronchoscopy as a first-line approach in early-stage bronchial MEC. The structured methodology, comprehensive diagnostic workup, and well-documented therapeutic success make it a high-quality clinical case study.

By providing detailed clinical insights, histopathological correlation, and procedural efficacy, this report enhances the understanding of rare bronchial malignancies and presents a strong argument for minimally invasive therapeutic advancements in pulmonology and oncology.