

# A Comprehensive Retrospective Study on the Role of Various Management Modalities for Fistula-in-Ano with Analysis of Follow-up Outcomes

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**Abstract:** ***Background:** Fistula-in-ano is a common anorectal disorder characterized by an abnormal communication between the anal canal or rectum and the perineal skin. It significantly impacts patients' quality of life. **Aim:** To evaluate and compare different surgical management modalities for fistula-in-ano with respect to perioperative outcomes, postoperative complications, wound healing, and recurrence. **Methods:** A retrospective descriptive study conducted in a tertiary care hospital. **Results:** A total of 138 patients were included. Fistulectomy was the most commonly performed procedure. MRI fistulogram emerged as the most useful diagnostic modality. **Conclusion:** Individualized surgical planning, radiological evaluation, and optimization of comorbidities are essential for favorable outcomes.*

**Keywords:** fistula-in-ano, surgical management, perioperative outcomes, MRI fistulogram, recurrence rate

## 1. Introduction

Fistula-in-ano is defined as an abnormal tract connecting the anal canal or rectum to the perineal skin. It remains a challenging surgical condition due to its varied anatomy and risk to continence.

## 2. Materials and Methods

This retrospective descriptive study was conducted from 1st April 2025 to 31st October 2025 in a tertiary care hospital. A total of 138 patients meeting inclusion criteria were analyzed.

## 3. Results

Most patients were males (68%). The most common fistula type was intersphincteric (57%). MRI fistulogram was used in 93% of cases. Fistulectomy (52%) was the most common surgery performed.

## 4. Discussion

MRI fistulogram provided superior anatomical delineation. Comorbidities such as diabetes and anemia significantly affected wound healing and hospital stay.

## 5. Conclusion

Fistulectomy remains an effective surgical modality in selected cases. Optimization of comorbidities and appropriate imaging are crucial for successful outcomes.

## References

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