OUTCOME OF FISTULA IN ANO AFTER INCISION DRAINAGE OF ACUTE PERIANAL ABSCESS

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ABSTRACT:

OBJECTIVES:

To determine outcome of fistula in ano after incision drainage of acute peri anal abscess.

METHODOLOGY:

This descriptive case series study was conducted after approval of the Ethical committee. A total of 154 patients were observed for a six-month duration. Pre-design proforma was used to collect data. An inclusive criterion was age between 18-50 years of both genders with acute perianal abscess with low-level fistula (submucosal and mucocutaneous) and high-level fistula (ischiorectal and pelvirectal). Exclusive criterion was observed in all admitted patients who include secondary abscess formation for example diabetes mellitus, tuberculosis, and carcinoma with any previous history of fistula in ano. The result was analyzed through the SPSS-24 version.

RESULTS:

Ratio 35 (22.72%) was obtained for age group 18-30, 49 (31.81%) for age group 31-40 and 70 (45.44%) were in age group 41-50. The mean age was 38.25 years with SD ±9.70. The ratio of Males 143 (92.85%) leads high to females 11 (7.15%). The fistula was found in 64 (41.55%) patients postoperative after incision drainage for perianal abscess. Among 64 patients, 54 (37.01%) were male and 7 (4.54%) females. 90 (58.44%) patients had no fistula postoperatively. Low-level 45 (29.22%) and 19 (12.33%) high-level fistula was found in patients. Among the low-level ratio, 40 were male and 5 were female. Similarly, in high-level fistula 17 were male and 2 were female.

CONCLUSION:

Fistula is more common in males than females. Low lying fistula leads the chart more than a high lying fistula. The incidence of anal fistula in our observed patient’s abscess was 41.55%.

KEYWORDS: Incidence, Perianal Abscess, Perianal Fistula

How to cite this article:

INTRODUCTION:

Among the most common Encounter diseases in ano rectal region is a fistula, in adults, males are more prone than females¹. The relationship between fistula and abscess are common in etiology, pathophysiology, therapy, complication and anatomy². The study reported that incidence is about 2 cases per 10,000 populations per year in the age group 30-50 year³. Other studies reported that fistula is either associated with perianal abscess from outset or later sign in 26-37% of time⁴-⁶. In identified superficial fistulas in ano, primary fistulotomy should be attempted⁷. The study reported that many primary fistulotomies were done during drainage of abscess with no adverse effect⁸. The perianal abscess can cause
systemic infection if left untreated; patients with recurrent or complex abscesses should be evaluated for chronic disease.9,10. The aim of this study was to determine outcome of fistula in ano after incision drainage of acute peri anal abscess, which will help surgeons to take a precise decision for management to reduce morbidity in our population.

**METHODOLOGY:**

This descriptive case series study was conducted after the approval of the Ethical committee at surgical “A” ward, Ayub Medical and Teaching Hospital Abbottabad. A total of 154 patients were enrolled in the study. Pre-design proforma was used to collect data. The duration of the study was from 19 November 2019 to 18 May 2020. Inclusion criteria include age group 18-50 years, both gender, acute perianal abscess with low and high-level fistula. Exclusive criteria include the previous history of fistula in ano and secondary abscess formation e.g., diabetes Mellitus, tuberculosis, Cohen disease and carcinoma. Sequels of concurrent disease or trauma where Fournier gangrene and horseshoe abscess were excluded. Data were analyzed through the SPSS-24 version.

**RESULTS:**

<table>
<thead>
<tr>
<th>Table 1: Age and Gender Distribution</th>
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<tbody>
<tr>
<td>Age</td>
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<tr>
<td>18-30 Years</td>
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<tr>
<td>31-40 Years</td>
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<td>41-50 Years</td>
</tr>
<tr>
<td>Gender</td>
</tr>
<tr>
<td>Male</td>
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<tr>
<td>Female</td>
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The mean age was 38.25, SD ±9.70 years.

<table>
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<th>Table 2: Fistula Formation</th>
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<tr>
<td>Fistula Formation</td>
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<tr>
<td>Yes</td>
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<tr>
<td>No</td>
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<tr>
<td>Total</td>
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**DISCUSSION:**

A study reported a result that is similar to our result.1. Treating fistula may reduce the late squeal but this could affect the function of the anal sphincter in some patients who may not have developed fistula in ano.12. The result showed fistula in 64 (41.55%) patients out of 154. The abscess as shown is more common in male patients 143 (92.85%) whereas females were 11 (7.14%) in number. 57 male patients were having fistula after drainage for perianal abscess and 7 were females. 45 patients were having low lying fistula whereas 19 patients have a high-level fistula. These results support the rule of secondary fistulotomy to avoid division of sphincter muscle who do not need it.13. Patients aged less than 40 years and non-diabetic appeared to have a higher risk for fistula formation.14. Concluded that incidence of fistula-in-ano following incision and drainage of perianal abscess was 31%. Another study showed incidence following perianal abscess was 26% diagnosed within six months or follow-up.15. Sample size, criteria, depth and size of abscesses differentiate one study from another study. Our study concluded that the ratio of males is higher than females, which is similarly reported by another study also. Frequently incision and drainage followed by a thorough wash and suturing lower defect in such cases with modern techniques.16. Our study does not show an association between an enteric organism and fistula in ano.

**CONCLUSION:**

We conclude from this study that the incidence was 41.55% in our population. Fistula in males is more common than in females. The percentage and frequency of low-lying fistula is more than high lying fistula. We suggest avoiding division of anal sphincter muscle; secondary fistulotomy is advised to be done better when an anal fistula will be formed.

**CONFLICT OF INTEREST:** None

**FUNDING SOURCES:** None

**REFERENCES:**


