INTRODUCTION

Video assisted Anal Fistula treatment (VAAFT) is a minimally invasive technique for complex Anal Fistulas to save the Sphincter damage even after repeated Procedures for recurrences are performed. This technique, initially described by P. Meinero, has been adopted by us as a new promising modality in treating Fistula in Ano. The aim of our study to share our experience in our setup with minor changes in the initial method described by Meinero.

METHODS: Karl Storz Video equipment including Meinero Fistuloscope was used. Key steps are visualization of the fistula tract, correct localization of the internal fistula opening under direct vision and endoscopic treatment of the fistula. This is followed by an operative phase of fulguration of the fistula tract using glycine solution mixed with manitol, curetting the tract with curette and fistula brush. Internal opening is closed with a Vicryl 1 suture.

RESULT: Total of 40 patients were operated using VAAFT from October 2013 to March 2014. Three were re-operated. The other 37 cases were followed up at 6 weeks, 3 months and 6 months. Primary healing took place in 20 (50%) cases at 6 weeks. In the remaining 17 (42.5%) cases, minor discharge occurred with itching which resolved till the next visit at 8 weeks and 12 weeks.

CONCLUSION: As the main aim in treating fistula is proper identification of the internal opening, excision of the tract and sparing the sphincter function, VAAFT achieves all aims with additional benefits of patients’ satisfaction and negligible scaring.

KEY WORDS: Anal fistula, VAAFT, Meinero Fistuloscope.

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can’t be fully guaranteeing in treatment in the complex fistula in Ano.¹

**METHODS**

Karl Storz Video equipment including Meinero Fistuloscope was used. Key steps are visualization of the fistula tract, correct localization of the internal fistula opening under direct vision and endoscopic treatment of the fistula. This is followed by an operative phase of fulguration of the fistula tract using glycine solution mixed with manitol, curetting the tract with curette and fistula brush. Internal opening is closed with a vicryl 1 suture.¹ We adopted certain modifications like no use of stapler and synthetic cyanoacrylate because of non-availability and increasing cost of the procedure. Patients were anesthetized with spinal anesthesia and midazolam. Preoperative single dose of 2nd generation cephalosporin was used and 1 dose of the same antibiotic was given post operatively. Post operatively pain killer used were injectable opioids followed by oral pain killers for 3-5 days.

**RESULTS**

This procedure was performed for the first time in this institute. We want to share experience of our first 40 cases with mean follow up of 6 months. We have operated on total of 40 patients between the month of October 2013 to February 2014 with Video Assisted Anal Fistula Treatment and one case was operated for Video Assisted Pilonidal Sinus Excision. No major complications were noted. Three (7.5%) cases among the 40 cases were re-operated and same technique was advocated. These patients have so far showed promising results. (Table-I)

Among the other 37 cases follow up was done at 6, 8 and 12 weeks and primary healing took place (Fig. 1 & 2) in 20(50%) cases at 6 weeks while in the remaining 17 (42.5%) cases minor discharge occurred with itching which resolved till the next visit at 8 weeks and 12 weeks.

Internal Opening was clearly found in 34 cases (85%). In the rest of the cases the tract was identified from the external opening and followed toward the internal opening. The simple straight tract was found in 16 (40%) patients while complex with either multiple tracts of trans- and supra-sphinteric were 24 (60%).

**DISCUSSION**

Video assisted Ano rectal Fistula treatment is comparable to all the other procedures done for the Fistula in Ano regarding satisfaction, healing, early recovery because its minimally invasive and allows multiple attempts in case of failure in the first place. The aim in treating fistula in Ano is 3 folds namely identification of the tract, identification of the internal opening and preservation of the anal sphincter.¹ All these goals are achievable with

| Total No. of Patients | Primary Healing at 6 weeks | 8 weeks | 12 weeks | Re do Surgery | Complications |
|-----------------------|-----------------------------|---------|----------|---------------|---------------|
| 40                    | 20(50%)                     | 17(40%) | 40(100%) | 3(7.5%)       | None          |

**Table-I: Summary of the cases.**

Fig.1: External Fistula Opening.

Fig.2: Partial healing after three weeks.

Fig.3: Complete healing after twelve weeks.
the VAAFT technique. It can be compared to the gold standard Fistulectomy and Fistulotomy but both at the cost of increased trauma and increased morbidity. But the main place where VAAFT fits the most are the Complex and High lying Fistulas where the other competitors like Seton is controversial. While in the Endorectal Advancement Flap along with the application of Fibrin glue the success rate is reaching only 54%. The Ligation of internal Fistula Tract (LIFT Procedure) needs high expertise with success rate ranging from 57% to 95%.15

Our data appears promising, confirming the results of Ortiz et al. who reported very low recurrence rates after one year using a similar operative principle. Meinero described successful completion of the method in 100% cases, Schwandner did it in 85% patients, VAAFT was feasible in 93% of patients. In our study, we were able to perform the procedure in all of the patients, internal opening was found in 85% of the patients while G Tomáaš et al. found internal opening in 67% of the patients.15

The use of the traditional techniques for the surgical treatment of anal fistulas are associated to a postoperative risk of fecal incontinence up to 45%. VAAFT does not affect fecal continence; however, it may be associated with a recurrence rate of 30%. There was no procedure-related morbidity in our cohort and also in the cohort of G Tomáaš et al. although recurrence occurred in 3 cases in 6 months’ observation period. Meinero found 2 cases of post operative urinary retention and scrotal edema in one case possibly due to infiltration of irrigation solution. No morbidity occurred in Schwandner’s work. Regarding patient recovery, it was more than 87% in case of Meinero, while it was just 67% in case of W piotr. This difference may correspond to the initial learning curve of the procedure. Use of vaaf in crohn’s disease by Schwandner O found that there was additional branching in 7/11 operated patients and complete ostium closure in 9/11 during 9 months’ observation period. There is no total agreement on a single method of ostium closure. Meinero proposed to close the ostium by staple but its economically unjustified and its effects are uncertain.17

CONCLUSION

VAAFT is a new modality and our results are comparable to the pioneer of this procedure. Initial cost of the equipment can be overlooked if the results achieved are over all satisfactory with less chance of recurrence, shortened hospital stay and decreased morbidity.

Declaration of interest: The authors have no financial and personnel relationship and no potential conflicts exist.

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Authors Contribution:

All of the five authors took active part in creating the concept and design of the study, data collection, data analysis and interpretation, drafting the article and preparing it for final version to be published.