

## Clinical Study Of Apamarg Ksharajala Dhawan In The Management Of Post-Operative Wound Of Fistulectomy

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### ABSTRACT

**Background:** Fistulectomy results in an open perianal wound requiring prolonged healing and repeated dressings. Apamarg Ksharajala described in Ayurveda as a Shodhana-Ropana agent.

**Aim:** To evaluate the add-on effect of Apamarg Ksharajala Dhawan in post-operative fistulectomy wounds.

**Materials & Methods:** A total of 60 patients were divided into two groups: Group A received Apamarg Ksharajala Dhawan in addition to standard care, while Group B received standard care alone. Parameters observed were pain, itching, tenderness, and wound size.

**Results:** Group A showed faster reduction in pain, itching, discharge, and wound size. Granulation tissue appeared earlier, and complete healing time was significantly shorter compared to Group B. **Conclusion:** Apamarg Ksharajala Dhawan is an effective add-on therapy for improving wound healing in post-operative fistulectomy patients.

**KEYWORDS:** Apamarg Ksharajala, Ayurvedic wound management, Fistulectomy, Kshara therapy, Post-operative wound care

### INTRODUCTION

Fistula-in-ano (Bhagandara) is a chronic disease described in classical Ayurvedic texts and modern surgery. The standard surgical treatment, fistulectomy, creates an open wound that may take weeks to months to heal. Pain, discharge, infection, and fibrosis are common post-operative complications.

Apamarg Ksharajala possesses Shodhana (cleansing), Lekhana (scraping), and Ropana (healing) properties. Its alkaline nature dissolves unhealthy tissue, enhances drainage, and promotes healthy granulation. This study evaluates its role as an add-on intervention.

In present preparation of Ksharajala, which provides cleaning and healing. Therefore, trial drug was used for debridement or to cast off dangerous tissue and enhances formation of healthy granulation tissue to decorate brief normal epithelialization. In this comparable essential of healing has already been mentioned by means of Dalhana in Nimbhandha Sangraha states that "After the purification (Shodhana) of wound there is no need of treatment because the wound heals (Ropana) itself." Therefore, study was designed on Ksharajala in post operative

To study the add on effect of Apamarg Ksharajala Dhawan in the management of post operative wound of fistulectomy

wound of fistulectomy which reflects sustained release property, also minimizes secretion and pain.

**Need of Study:**

All the post-operative treatment of modern science have any drawbacks, to alter these the ayurveda is may be effective as well low of cost, chief & easily available. In post-operative surgery of Fistulectomy patient need regular dressing of betadine with h2o2, septic condition may be occurs, most of the time hospitalisation may be requires, side effects of high grade modern medicines were established, locally itching, fibrosis can be seen, ulcers formation can be occurred.

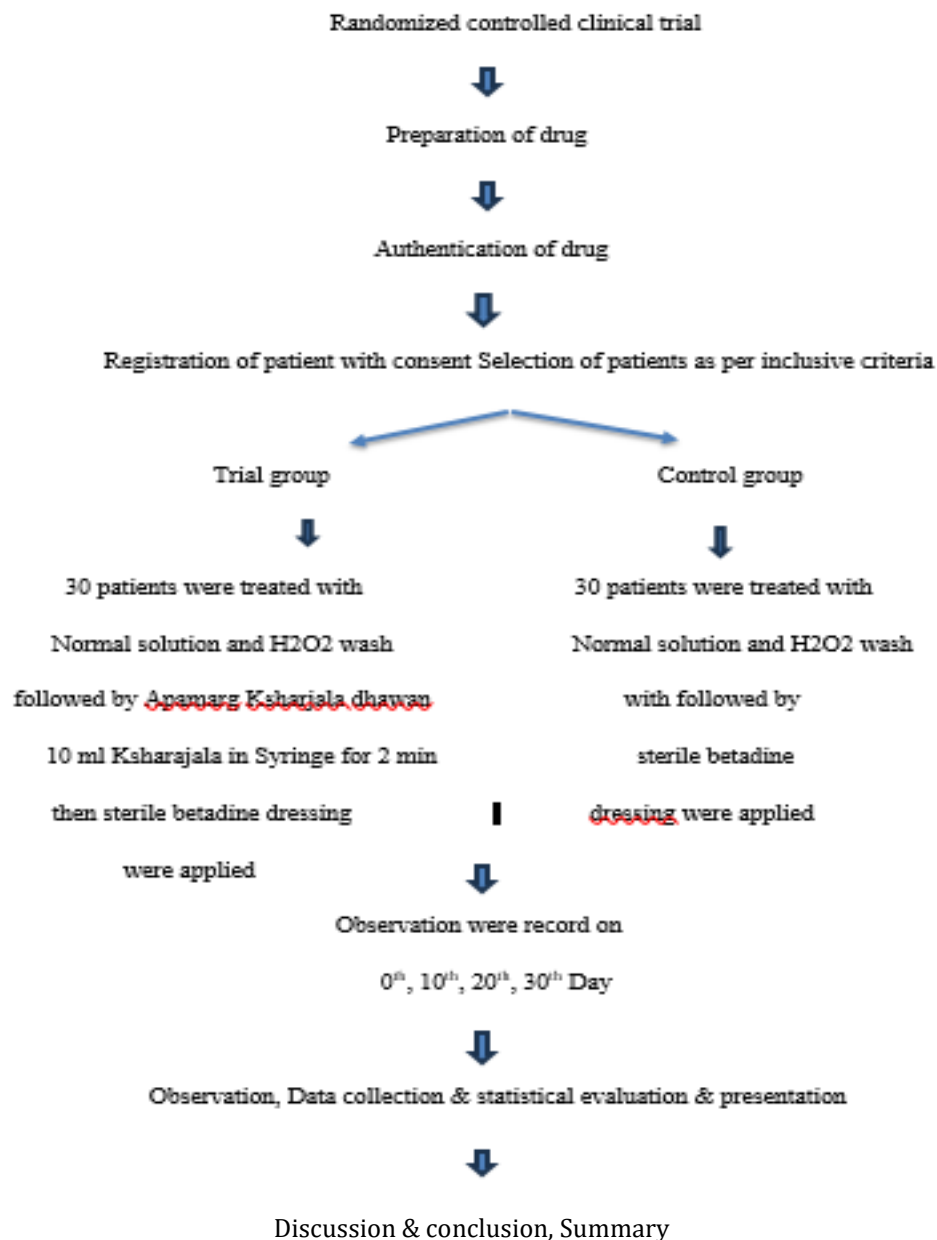
Many of others modern medication such as corticosteroid used for post operative wound care has side effects like Inhibitory effect on wound contraction<sup>3</sup>, prolong use of antibiotics causes resistance, longer use of analgesics produces harmful effect on the body to alter this ayurvedic preparation such as Ksharajala dhawan can be used. By virtue of their properties they aimed for sthanik vrana shodhana & ropana. Anti-inflammatory & anti-bacterial action of ksharajala has promoted healing tendencies in post-operative wound.

### AIMS

### OBJECTIVES

To study Shodhana and Ropana effect of Apamarg Ksharajala.

## MATERIALS AND METHODS (STUDY DESIGN)



### PREPARATION OF DRUG

1) 1gm of Apamarg kshara were mixed with 100 ml of distilled water over night in jar.

2) In this way a 1:100 proportion of Apamargkshara and distilled water respectively were mixed and sealed in steel bottle having capacity 400 ml.

### INCLUSION CRITERIA

1. Post-Operated patient of Low anal fistulectomy.
2. Patient of both sex (age group 30-70) were selected.

2. Patient with malignancy.
3. Bleeding disorder (increased BT and CT)
4. Anaemic patient Hb<10

### EXCLUSION CRITERIA

1. Patient suffering from major illness like Known case of liver cirrhosis, DM, TB, Leprosy, Jaundice, HIV.

### ASSESSMENT CRITERIA



sterile betadine dressing, (Group B) for Subjective criteria such as Vedana, Kandu and Sparsha Asahatva.

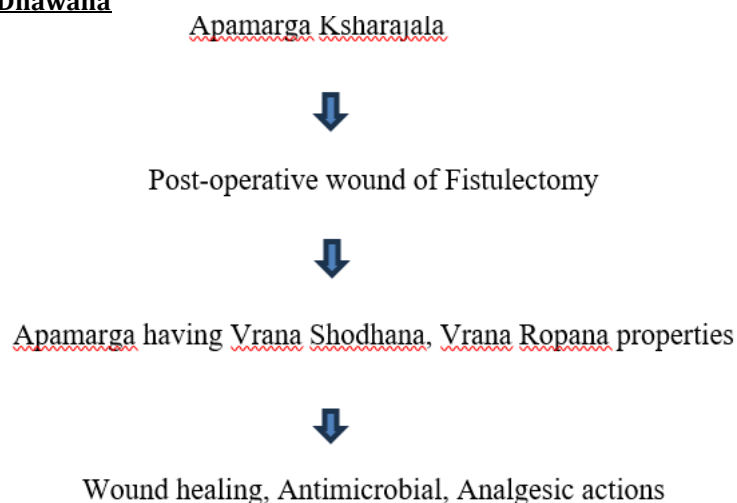
- The effect of Apamarga Ksharajala Dhawan (Group A) is more significant than NS and H2O2 wash

Apamarg Ksharajala acts by removing slough, decreasing bacterial load, and promoting early granulation. Its alkaline nature helps debridement and reduces exudate. This explains the faster symptom relief and accelerated wound contraction in Group A.

Modern dressing agents like betadine and H<sub>2</sub>O<sub>2</sub> have limitations such as tissue irritation. In contrast, Apamarg Ksharajala is herbal, inexpensive, and effective.

### MODE OF ACTION

#### Apamarga Ksharajala Dhawana



### CONCLUSION

Apamarg Ksharajala Dhawan is an effective add-on treatment for post-operative fistulectomy wounds. It shortens healing time, reduces symptoms, and promotes healthier granulation. It may be recommended as a safe, economical, and efficient local wound care therapy in anorectal surgical practice.

Effect of Apamarga Ksharajala Dhawana (Group A) and NS and H2O2 wash followed by sterile betadine dressing (Group B) on symptoms observed in Post-operative wound of Fistulectomy is statistically

followed by sterile betadine dressing, (Group B) for objective criteria such as Length of Wound, Breadth of Wound, Depth of Wound, Discharge and Colour of Surrounding Skin.

### DISCUSSION

The discussion regarding the observations and effect of therapies is presented as follows ;

Subjective parameters were documented for Group A & Group B on 0<sup>th</sup>, 10<sup>th</sup>, 20<sup>th</sup>, 30<sup>th</sup> day. Objective parameters were done before and after treatment. The results obtained from both the groups were statistically analysed to obtain the effect of the therapies.

proved to be significant on Subjective criteria and Objective criteria.

Apamarga Ksharajala Dhawana helped in cleaning the wound and reduced local congestion and inflammation and thus relived associated pain by enhancing local circulation which is necessary to promote healing.

Apamarga Ksharajala Dhawana possess Vranshodhaka, Vranropaka, less irritant, helps to promote the wound healing in wound.

No adverse drug reaction were reported during the study.

### REFERENCES

1. Shashtri A, Sushruta Samhita, Ayurvedtavasandipika-Hindi vyakya, (Purvardha) Sutrasthan Adhaya 1/7, Chaukhamba Sanskrit Sansthan, Varansi Ed.2018, p.5.
2. Sushruta, Kaviraj Ambika datta Shastri, Sushruta Samhita, Sutra sthana, Vol.1, Chaukhambha Sanskrit Sansthan, Varanasi, Reprint 2015, Sutrasthan, 33/4, 163.
3. Das S, A Concise Textbook of Surgery, Dr. S. Das, Kolkatta, 7th ed, p. 1071.
4. Dr. Ambikadatta Shastri, Sushruth Samhita, part 1, Chaukhambha Sanskrit Sansthan, Varanasi, Edition-2018, Sutrasthan,

- Ksharapakvidhiadhyaya, no.11, sutra No.5, page no 45.
5. Bhavapraksha of Bhavamishra, vidyotini hindi teeka by sri Harihara Prasad pandey published by chauhambha sanskrit Bhavan, 11th edition 2009, madhyama bhag, 50, page no 502
  6. Sushruta samhita edited with Ayurveda Tatva Sandipika hindi commentary by Kaviraja Ambikadutta shastri, part 1, published by Chaukhambha Sanskrit Sansthan, Varanasi, Reprint 2015, Nidansthana 4/4, page no.317.
  7. Sushruta samhita edited with Ayurveda Tatva Sandipika hindi commentary by Kaviraja Ambikadutta shastri, part 1, published by Chaukhambha Sanskrit Sansthan, Varanasi, Reprint 2015, Nidanasthana 4/10 pag no 318
  8. Kothari, C.R. 'Sampling fundamentals', in Research methodology methods and techniques. 2nd edn. New Delhi, New delhi : New age International limited publishers. page no 179.
  9. Bailey and Loves, Short Practice of Surgery, Arnold Publisher a member of Hodder headline group, London, 23rd Edition, Page No.1136.
  10. Dr Nitin Badade, Study the efficacy of Madhu-Ghrita local application in post operative wound management of circumcision.
  11. Dr. Anantkumar V. Shekokar, Dr. Kanchan M. Borkar: A novel method for vrana shodhana And ropana using Ksharjala; International Journal of Ayurveda and Pharma Research. March 2015 p-19.