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CONCEPTUAL STUDY ON MANAGEMENT OF PARIKARTIKA

Rohith Bhadra*1 and Elizabeth John2

¹PG Scholar, Department of P.G Studies in Shalyatantra, Karnataka Ayurveda Medical College and Hospital, Mangalore, D.K District, Karnataka, India.

² HOD & Professor, Department of P.G Studies in Shalyatantra, Karnataka Ayurveda Medical College and Hospital, Mangalore, D.K District, Karnataka, India.

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PG Scholar, Department of P.G Studies in Shalyatantra, Karnataka Ayurveda Medical College and Hospital, Mangalore, D.K District, Karnataka, India.

ABSTRACT

Sushruta has explained about Guda Roga i.e. Ano Rectal Disease in Shalya Tantra. Anal fissure is one of the most common caring anorectal conditions. Fissure-in-ano is can be associated with Parikartika as it is characterized by cutting pain (Kartanwat Vedana) in anal region. In Ayurvedic text, Parikartika is mentioned not as a separate disease entity but as a complication of different Ayurvedic procedures such as vamana, virechana and basti and complication of some diseases like Arsha, Atisara, Grahani. Chronic Constipation leads to hard stools and it result into tear or cut in anorectal mucosa along with signs and symptoms like which further become fissure in ano. Acute fissure in ano, presents symptoms like pain at the anal margin, severe and sharp cutting pain, bleeding per rectum, mucous discharge, itching. Health of an individual depends upon his diet, environmental condition and lifestyle. In present era lifestyle disorders like hypertension, diabetes mellitus, hypothyroidism, obesity etc. are affecting large number of populations in the world. Anorectal diseases like fissure in ano, hemorrhoid etc. could be considered as a problem originated from bad food habits and improper lifestyle.

KEYWORDS: Parikartika, Fissure in ano, Guda Roga, Ano Rectal Disease, Pain.

INTRODUCTION

The word 'fissure' itself means 'a split or crack.' It's been described as an acute superficial breach in the anal canal's continuity. *Parikarthika* is a term used in Ayurvedic medicine to describe a situation in which the patient feels as if the anal canal is being sliced around with scissors. The word *Pari* as prefix signifies "all over," "whole," or "every aspect." Kartika is a noun form derived from the verb "*Krita*," which means "to cut." As a result, the word *Parikartika* means "to cut circumferentially" or "to cut all around."

The factors responsible for *Parikartika* are found as *Basti-Virechana Vyapada* (complication of the *Basti* and *Virechena* procedures) *Bastikarma Vyapada* (complication of the *Basti* procedures), *Arsha* (piles), *Atisara, Grahani, Udavarta*, etc., are mentioned in various texts. *Parikartika* is characterized by *kartanwat* and *chhedandvat shool* in *Guda*, but the sentinel tag like features are not in the reference of *parikartika*. Sentinel tag can be compared with *shuskarsh* as mentioned by *Charak Samhita*. [1]

Acute fissure in ano the symptoms like pain at the anal region, severe and sharp cutting pain, bleeding per rectum, mucous discharge, itching (From mucous and stool that may now soil the skin around the anal canal), sometime Anal Skin Tag felt at the skin around the anal margin known as sentinel tag.^[2] The occurrence of fissure-in-ano is thought to be highly common in constipated patients, especially those who pass hard and dry stool, with a prevalence rate of 30–40% of overall ano-rectal complaints.

AIMS AND OBJECTIVES

To study in detail about Parikartika.

MATERIAL AND METHODS

Source of data

- 1. Classical text books of Ayurveda
- 2. Texts books of Modern science
- 3. Published article from periodical journals and other magazines.

^{*}Corresponding Author: Rohith Bhadra

Review on *parikartika* Definition

It refers to a condition in which patient experiences a sensation of pain as if the *Guda* is being cut around with scissors. It is derived from Sanskrit word '*Parikr*' which denotes 'all around' and '*Kartanam*'. It means that excessive cutting pain around the anus is seen in *Parikartika*.

Nirukti

- Pari sarvato bhavaha^[3]
- Parikrit Krintati, to cut off, cut round, clip.
- Pari round about
- *Kartana* cutting

Acharya Kashyapa says that the one having cutting and tearing pain. means cutting and tearing pain everywhere as said by *Dalhana*. *Jejjata* has anticipated about the condition and opined in a very pin pointed way specific *Vatika* pain is present all around in a specific area of *Guda*, is *Parikartika*.

Synonyms

Kshata Payu and Kshata Guda are the synonyms in this disease. Pain is most accepted and important clinical symptoms in this disease.

Nidana^[4]

In Parikartika, Vata is the leading or the primary Dosha, this is because of the fact that Guda is actual site of Vata especially Apana Vayu. Vata vitiation factors are Tikta, Ushna, Kashaya, Alpa Bhojana, VegaDharana, Udirana, excessive Shodhana therapy; diurnal and seasonal variations. The second predominant *Dosha* that seems to play important part is Pitta. The factors vitiating it are Katu, Amla, Lavana, Ahara, Krodha; diurnal and seasonal variations Kapha Dosha, though predominantly present for triggering the condition, but still, it plays a role many ways. The factors vitiating Kapha are: Swadu, Amla, Lavana, Adhyasana, Sita, Guru Bhojana, Divaswapna and diurnal and seasonal Other than the three Doshas, Acharya variations. Sushruta has paid utmost attention to Rakta Dhatu, up to the extent that he says that Rakta is the 4th Dosha. He also says that as *Vayu* unites with blood *Vrana* is formed. In Parikartika, Vrana produced is mostly Nija in origin and Acharya Charaka in Chikitsasthana Dwivraneeya Adhyaya has explained that when Doshas take site in Bahya Roga Marga, they produce Vrana likewise Prakupita Vata and Pitta especially the causes of Parikartika. As told by Acharya Sushruta, the Nidana of Parikartika can be divided in to three types.

- 1. Nija Nidana (Endogenous).
- 2. *Nidanarthakari Roga* (Complications)
- 3. Agantuja Nidana (Exogenous).

Nija Nidana^[5]

The Nidana that vitiates Apana Vayu, Rakta is the Nija Nidana Consumption of the causative factors for Apana Vikrti are Ruksha Anna and Guru Anna, holding the

natural urges of micturition and defecation, too much of traveling by vehicles, traveling repeatedly at various places by walking. Sushruta has given few more reasons of Parikartika. He says that "Due to excessive accumulation of Mala in Pakvashaya, it obstructs the normal passage of Vayu and produces Vibandha with cutting like pain. Due to this the Snehamsa (unctuous portion) gets absorbed rapidly and eliminates dry faeces with pain. By excessive intake of astringent, bitter, pungent and dry articles of diet, by the suppression of natural urge of Mala Pravrutti, by excessive indulgence in eating and sex, the Apana Vata is provoked in the colon; growing stronger it causes obstruction in the lower part of the alimentary tract and produces retention of feaces, flatus and urine and thus produces very serious disorders of mis peristalsis. Acharya Sushruta has said that due to consumption of Kashaya, Tikta and Ushna and Ruksha substances Vayu enters into Koshta of a person and along with abstained urges of defecation, produces Atopa, Shula and Parikartika as sequel to Vitasanga.

Nidanarthkari Roga Nimittaja^[6]

Nidanarthkari Roga Nimittaja are such disorders that are produced due to any pre-existing diseases. the chief Roga is Udavarta that produces Parikartika. Acharya Charaka has described this condition as a Lakshana of AtiSara. Acharya Charaka and Vagbhatta have mentioned 'Parikartika' as a symptom in Vataja Atisara, who is suffering from Vatik Atisara and has complaints of scanty, watery or hard rounded motions, soon develops Parikartika Sushruta while explaining the prodromal features of Arsha, has not mentioned the word Parikartika but has documented a very similar symptom, the symptom here is Guda 'Parikartanam' i.e. there is cut in the anus and cutting pain. This is nothing else but Parikartika and it is explained here as a prodromal symptom of Arsha. The shape of the Vatika Arsha is like 'arrow' and is pointed which is similar to sentinel tag. Acharya Charaka has said that in Sahaja Arsha there is severe pain in Guda vallaya. In Vatika Arsha, the symptoms that he has described very much similar to those found in Parikartika viz. pain in anus, penis, abdomen, umbilical region and so on. Also, in Kaphaja Arsha he has said that there is Parikartika, nausea etc.

Vaidya Nimittaja^[7]

By *Pancakarma* like *Virechana*, *Basti* and *Vamana*, *Parikartika* as complication

- *Virechana Vyapad: Sushruta* both have mentioned one important complication '*Parikartika*', if ingests *Tikshna*, Ushna and *Ruksha* drugs for *Virechana*.
- Basti Vyapada: If Ruksha Basti containing Tikshna and Lavana drugs is administered in heavy dose; it may produce Parikartika.
- Basti Netra Vyapada: Due to inappropriate administration of Basti Netra and defect in Basti Netra it may cause this disease.
- Excessive use of *Yapana Basti*: It may lead to *Parikartika* along with other diseases.

Rupa^[8,9]

Vikrta Vata gets localized in Guda it produces retention of faeces, urine and flatus, colic pain and flatulence and Śarkara (fecalith). Along with these the prodromal symptoms of Parikartika, in the words of Sushruta, is pain of sharp cutting nature in Guda. Acharya Sushruta has described is absolutely correct because in modern medicine also for anal fissure same clinical symptoms are described as cutting or burning pain in anus, pain in umbilical region and radiated pain in penis and thigh also. Constipation may be habitual or due to disease because patient is apprehensive to relax the sphincters and defaecate so wind is not passed and constipation develops, Further, he has quoted that the symptoms like pricking pain in the sacrum, groins, below the naval region and passage of scanty stools and constipation are present in one who is suffering from Parikartika.

Acharya Vagbhatta has also described same signs and symptoms as described by Acharya Charaka and Sushruta. Vraṇa is an essential symptom of Parikartika which is having Dirghakriti shape or Triputakakrti and a Srava may be present. The Vraṇa surface appears more Ruksha. Features of Vata Pittaja Vraṇa and also Dushta Vrana like Samvritatwam, Vivitatwam, Kathinya, Mṛduta, etc. can be found.

Samprapti

The structural and functional integrity of the human body is maintained by Tridoshas in their state of equilibrium. But they are always susceptible to imbalance and vitiation. If proper Dinacharya and Ritucharya are observed, the vitiation of the Doshas can be brought to normal limit. When Asatmya Indriyartha Samyoga, Prajnaparadha and Parinama influence this imbalance of Dosha, a morbidization process begins and it undergoes six stages known as Kriyakala. They are Sanchaya, Prakopa, Prasara, Sthanasamsraya, Vyakti and Bheda during these stages disease is manifested. The Samprapti of Parikartika and Arsha shows close similarities. It is evident from the fact that both these conditions are manifested in the same Srotasa i.e. Purishavaha Srotasa. The role of specific etiological factors and site of manifestation of disease further strengthens this theory. In this disease Vata Prakopa is predominant with associated Pitta. The localization of Doshas occurs particularly in Guda Pradesh. As a result of the pathogenesis, Twak becomes Ruksha and shows tendency to crack. Sushruta and Vagbhatta have clearly stated that similar changes occur in skin when Vata vitiates from the skin. When Ksham and Mridu Koshta person indulges Ruksha, Tikshna Ahara and Ruksha Aushadha it produces Agnidushti, which in term leads to Vata- Pitta Prakopa. Due to Daurbalya of Dushya i.e. Mamsa and Twak, particularly of Purişavaha Srotasa, Kha-vaigunya takes place. Because of this Kha vaigunya, Sthana Samshraya of aggravated Vata and Pitta Dosha takes place in Purishavaha Srotasa which leads to Dosha Dushya Sammurcchana. This produces Twak Māmsa Duşhti specifically in Guda Pradesha. This Twak Mamsa

Dushti or Vrana results in frequent defecation associated with pain. This ultimately leads to Parikartika.

The second kind of Samprapti is that the diseases like Atisara, Grahani etc. are if not treated properly and patient continues to indulge Aharaja Nidana then preexisting pathology leads to Guda Vikṛti and later on Parikartika occurs. The third type of Samprapti is due to Agantuja Nidana where there is wound formation in first stage and then the Doshas get sited in the Vrana, producing further symptoms. When the wound is produced simultaneously there is vitiation of Doṣha which in term leads to Parikartika.

Bheda

Acharya Charaka and Sushruta both have described two types of Doshas in Parikartika viz. Vata and Pitta. In almost all Ayurvedic texts, no detailed descriptions about classification of disease, its Samprapti symptomatology have been specified, but Acharya *Kashyapa* has described the involvement of all the three Doshas e.g. Vata, Pitta and Kapha in the Adhyaya of Garbhini Chikitsa while giving the detailed Chikitsa of the disease *Parikartika*. This classification is chiefly emphasized on the character of pain, shooting, cutting or pricking pain in Vata predominance, burning pain in Pitta and dull ache type in Kapha predominance. Since it is a known fact that Kashyapa Samhita is incomplete work and it might be possible that he might have considered the Nidana Panchaka of Parikartika in detail in some of lost portion over a period, but later on given a brief description of it in relation to a Gravid woman.

Sadhyasadhyata

Parikartika which affects the superficial layer of the *Twak* (anal skin) is easily curable. Therefore, it can be included in the *Sadhyata* group. If it affects the deeper layers, it shows reluctance to heal.

Therefore, it can be included in *Krcchrasadhya* group. If it is associated with *Kushta*, *Vishadushti* and *Shosha*, the healing of *Vrana* will be delayed. If *Parikartika* is associated with *Sanniruddha Guda*, it is considered as *Yapya*. [10]

Chikitsa^[11]

Parikartika as a disease has been considered very briefly by Sushruta and other successive authors. They have described the treatment of Parikartika in most brief manner. Kashyapa has mentioned its management according to Doshika predominance, others have not considered as Doshika type of classification, but it is a fact that none of them has described surgical management, thereby showing that there was no need of surgery as the disease was completely cured by the use of medicinal preparations only, and they were satisfied with management. According to route of administration the medicines are divided into two categories viz. 1) Sodana and 2) Shamana.

Shodana Chikista: This local treatment is nothing but only Basti Karma. Basti is prepared in Ghrita, Taila and milk with the help of other different drugs. Most of the drugs, which are used in Basti Karma, are Vatashamaka, Vraṇa Shodhana - Ropaka and Pittashamaka. There are three types of Basti 's described by Sushruta and other Ayurvedic authors viz.

(i) Anuvasana Basti (ii) Piccha Basti and (iii) Sital Basti.

Remedy consists in employing a *Picchā Basti* with *YashtiMadhu* and Sesamum pasted together and dissolved in clarified butter and honey. And patient should be kept on *Anuvasana Basti*, (in cases of *Pitta* predominance) *Basti* should be employed with the cream of clarified butter and in case of *Vata* predominance with *Taila* cooked with *Yashtimadhu*. *Charaka* has also advocated both types of medicines which have been advocated by the *Sushruta*. He says *Sheeta Basti* consisting of drugs having *Madhura* and *Kashaya* properties (*Piccha* and *Anuvasana Basti*) prepared by *Madhuyaşti* powder and *kwatha* should be used.

Kashyapa has also advised for the Anuvasana Basti. In this type of Basti the base is milk, oil or Ghṛita these are either Vatashmaka or Pittashamaka. In many compositions so many drugs have been used they have Vata and Pittashamaka properties and Madhuyasti is many times used. Because it has property of cooling, Vata- Pitta-Raktashamaka and widely it has been advocated by Sushruta for treatment of traumatic wounds, Pittaja Vrana, fractures, Bhagandara, Upadansa and ulcer etc. Both the Acharya Charaka and Sushruta have advocated Piccha Basti with Madhuyaşti, Madhu and Taila for treatment of Parikartika.

Shamana chikista

The oral preparation has many-fold objectives some drugs are used to correct the anorectal disorders other are used as laxative and few more as to correct the *Agniduşhti*. They have advised drugs as the *Tridoshashamaka*. *Sushruta* has advised for cold water bath and milk for oral administration.

In this disease the main problem is that of constipation and pain only. If one corrects the constipation part of disease and alleviates the pain the disease may disappear to a great extent within few days. Pain due to *Vata* and *Pitta* vitiation and constipation due to two reasons 1) Habitual constipation and 2) Due to fear of pain patient does not go for the defecation. *Acharya Charaka* has also written about the oral treatment in *Parikartika* and advised for only milk drinking.

Acharya Charaka has also advised to take Amla Dravya because it has the property of Vatashamaka and increases the digestive fire. According to Charaka, if there is Parikartika present with fever, patient should drink the gruel prepared with the heart shaped leaves of seed, fruits of Kokam, butter tree, sour jujube, then painted leaved uremia and yellow berried night shade

mixed with Beal fruit. In *Kashyapa Samhita* the treatment has been given according to predominance of *Dosha*.

1. Vatija Parikartika

Brihati, Beal and *Ananta* are used which all have the *Vatashamaka* property.

2. Paittija Parikartika

Such drugs like *Madhuyaşti*, *Hanspatti*, *Dhaniya*, *Madhu* etc. are useful for *Pitta Shamana* and have also property to correct abdominal trouble with its laxative effect.

3. Kaphaja Parikartika

In this he has used the drugs which have the property of Kaphaśhāmaka and Vatashamaka also as Kantakari, Pippal, Gokshura and salt. Further he has given the treatment for Gravid Stri who is suffering from Parikartika is milk prepared with drugs which have Madhura Rasa and mixed with Madhu, Sharkara, Tila Taila and Madhuyaşti in this way, all the treatment is based on following factors.

- 1. To allevitate the *Vata* and *Pitta*.
- 2. To correct the abdominal trouble because in this disease *Vata* and *Pitta* are vitiated. Most of the patients come with burning type of pain. So, keeping these

Treatment of fissure in ano in modern

Acute ulcers with short history usually heal with conservative treatment. Conservative treatment includes, Oral medications for pain, which may be taken before any anticipated bowel movement. Stool softener may be used to make the stool soft enough to be passed without anal spasm. Weak bulk laxative is best in this condition. Nitric oxide is a neurotransmitter, which induces relaxation of the internal sphincter. Glycerin trinitrate is a nitric acid donor and is applied as an ointment to the anal canal to produce the relaxation of the internal sphincter. This heals the anal fissure in majority of the patients. Moreover, Glycerin trinitrate improves blood flow to the area, which further helps in healing of the fissure. But Glycerin trinitrate has a few side effects of which severe headache is of main concern. So later on calcium channel blocker, e.g. diltiazem is now being used. Soothing ointments may be applied with doubtful efficacy. 5 % xylocaine may be introduced with a fine nozzle into the anal canal. Self-dilatation is highly important, as this will relax the anal musculature and resolves with healing of the fissures. After 5 minutes of application of 5 % xylocaine Ointment a small St Marks anal dilator should be passed into the anal canal. Anal dilators are commonly made in 3 sizes (Small, medium and large). Gradual dilatation of the anal canal is advised by using larger dilators. This technique of using xylocaine lubricant and then dilating the anal canal with dilator should be practiced twice a day for a month. By using this time, the anal fissure may be healed. Injection of long-acting anesthetic solutions promotes little relief and has significant complications. Chronic ulcers though in these cases conservative treatment may be tried, yet in majority of cases this treatment fails and surgical management should be called for those are.

Anal dilatation: Lord's procedure of anal dilatation is the simplest method to dilate the sphincters of the anal canal. Under general anesthesia and the patient in lithotomy position the index and the middle fingers of each hand are inserted simultaneously into the anus and pulled apart to give maximum anal dilatation.

Excision of anal ulcer: Excision of anal ulcer along with skin graft to limit the convalescent period has not been successful. Even anal skin has been lifted up to cover the defect of the anal canal following excision of the ulcer. This is called V-Y anoplasty. This has also been unsuccessful. [12]

Anal advancement flap: After excision of the edges of the fissure and, if necessary, its base overlying the internal sphincter, an inverted house-shaped flap of perianal skin is carefully mobilized on its blood supply and advanced without tension to cover the fissure, and then sutured with interrupted absorbable sutures. The patient is maintained on stool softeners and bulking agents postoperatively, and usually also on topical sphincter relaxants. This technique has become popular recently as there is little risk of damage to the underlying internal sphincter, so there is no chance of incontinence. [14]

Dorsal fissurectomy and sphincterotomy: The essential part of the operation is to divide the transverse fibers of the internal sphincter in the floor of the fissure. If a sentinel pile is present, this is excised. The ends of the divided muscle retract and smooth wound is left. The after- treatment consists of attention to bowels, a daily bath, and the passage of an anal dilator until the wounds have healed, which usually takes about 3 weeks. Despite the presence of the wound, there is little or no pain and the results are good. The disadvantage of this operation is the prolonged healing time- usually not less than 3 weeks and often longer-and, occasionally, a mild, persistent and permanent mucus discharge. It is now reserved only for the most chronic or recurrent anal fissures, the majority being treated by lateral sphincterotomy. 15

Complications

- 1. Infections: Infections in a fissure may lead to the formation of a fissure abscess, which if left untreated can lead to Fistula in ano.
- 2. Sentinel pile: It is the skin tag found at the lower end of a chronic Fissure in ano. Sometimes due to unhygienic conditions it can get infected and cause severe pain and discomfort to the patient.
- **3. Enlarged papilloma:** Hypertrophied papillae are found at the upper end of the Chronic Fissure in Ano.

Pathyapathya^[16]

Pathya for Parikartika

- Langhana, pachana, ushna and laghu ahara should be consumed.
- 2. *Madhura rasa* and *vata anulomaka ahara* and *vihara* should be taken.

- 3. Green leafy vegetables and avoidance of constipation and strain during defecation.
- 4. Old *Raktashali* and *shasti* rice, *yava* and *Kulatha* also recommended.

Apathya for Parikartika

- 1. *Vegadharana, maithuna*, riding, sitting in *Utkata Asana*. (Hard sitting place)
- 2. Ati tikshna, atilavana, ati rooksha diet.

DISCUSSION

The disease parikartika occur due to pitta and vata. Due to these etiological factors vitiated doshas get cumulated in the guda region. The disease is most common in middle age group. Vata and pitta dosha are mainly involved in Parikartika. Passage of hard stool is main cause of tear in lower part of anal canal. Charaka mention that if a drastic purgative drug is taken by one having snigdha guru kostha and ama dosha or by other having mridu kostha, alpa bala it expels impurity along with ama, shortly on reaching the anal region and then causes severe colic, cutting pain and slimy discharge with blood. So, before prescribing medicine for Sanshodhan or to treat constipated patient, care of Saama Nirama condition of kostha and roughness of body is very important, otherwise medicine may cause Parikartika. In the treatment of Parikartika, if the patient having ama, then langhan pahchan ruksha is indicated, i.e. hot and light food should be prescribed, and if the patient is weak and his body is ruksha then sweet and bringhaniya food should be recommended.

CONCLUSION

Parikartika is very common among ano rectal diseases due to improper aahara-vihara. Fissure in ano (parikartika) having best treatment in Ayurveda. The management with the help of deepana and pachana oral medication to improve agni of patients. Local application of vranaropak Ghruta, Tail and Basti treatment can help in healing fissure in ano early.

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