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SYSTEMATIC REVIEW ON EFFICACY OF VARIOUS *PRATISARNEEYA KSHARA* APPLICATION IN AYURVEDA FOR THE MANAGEMENT OF HEMORRHOIDS W.S.R. TO SIZE REDUCTION OF PILE MASS

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Abstract:

Background: "Mandagni, the prime etiopathogenic factor of Arshas, leads to constipation, initiating the development of Arshas through prolonged contact of accumulated Mala or excretory material with Gudavali. Among the available treatment modalities, Kshara karma stands out for its convenience, easy adaptability, cost-effectiveness, and curative results. Within this para-surgical approach, various forms of external Kshara application, such as Ksharasutra Ligation (KSL) and Pratisarneeya kshar, are employed to treat Arsha. While Ksharasutra ligation is a surgical procedure, Pratisarneeya kshar involves local application and exhibits effectiveness with a straightforward procedure. Numerous studies on Pratisarneeya kshar have been conducted. "Objectives: This study aims to investigate the impact of various types of Pratisarniya kshara on Haemorrhoids. Methods and Materials: The materials were gathered from classical Ayurvedic literature, various magazines, and research journals. Results: Pratisaraneeya Kshara application demonstrates high efficacy in reducing the size of pile mass. Conclusion: Despite recent advancements, these invented techniques exhibit certain limitations and have not been proven entirely free from post-operative complications. This underscores the need for a new and improved treatment that is devoid of complications, ensures a faster cure, and proves economically superior.

Keywords: Abhyantara Arsha, Internal hemorrhoid, Pratisaraneeya Kshara, Kshara Karma

INTRODUCTION:

Avurveda, an ancient system of medicine. serves as a beacon for an ideal way of living, promising a disease-free, happy, and long The era of Sushruta, particularly renowned for its golden age in Ayurvedic surgery, laid the foundation for various medical practices. Proctology stands as a domain within Avurveda that holds immense potential for further exploration and research [1]. The estimated prevalence of hemorrhoids among the Indian general population is approximately 5%^[2]. In our contemporary era marked by fast-paced lifestyles, irregular food habits, changing dietary patterns, sedentary living, and heightened mental stress, the digestive system often succumbs to disturbances, leading to various diseases. Among these, Ano-rectal disorders, particularly hemorrhoids or piles, have become increasingly prevalent. Modern occupations, characterized by prolonged sitting, contribute significantly to the rising incidence of this condition, affecting individuals such as drivers, bank managers, tailors, shopkeepers, and others.

Acknowledged as one of the eight *Mahagadhas* by Acharya Sushruta, *Arsha* holds a significant position in Ayurvedic classifications^[3]. *Mandagni*, a prime etiopathogenesis factor, leading to

constipation and prolonged contact of accumulated excretory material with *Gudavali*, is instrumental in the development of *Arsha*.

Acharya Sushruta's classical texts delineate four principal therapeutic measures for Arsha management: *Bhesaja Chikitsa* (Medical treatment), *Kshara karma* (Caustic

therapy), *Agnikarma* (Thermal cautery), and Shastra karma (Surgery) These measures, presented in a specific order, prioritize simpler and minimally invasive methods, ensuring effectiveness with complications minimal and minimal disruption patient's routine. to the Contemporary medical modalities, such as sclerotherapy, rubber band ligation, anal dilatation. infrared photo-coagulation, cryosurgery, and haemorrhoidectomy, though widely accepted, exhibit high recurrence rates [5]. In this context, Kshara Karma emerges as a para-surgical modality for piles management. However, recent innovations in these techniques have encountered limitations and post-operative complications, highlighting the need for a new and improved treatment approach that is not only devoid of complications but also offers quicker cure and proves economically advantageous.

As we navigate the evolving landscape of medical interventions, this introduction sets the stage for exploring a promising avenue in the treatment of hemorrhoids, emphasizing the importance of efficacy, minimal invasiveness, and economic viability.

AIM AND OBJECTIVES:

To study the details regarding Hemorrhoids.

To study the effect of various types of *Pratisarneeya kshara* on Haemorrhoid

MATERIALS AND METHODS:

The materials for this study were sourced from classical Ayurvedic literature.

Data were also gathered from various magazines and research journals. After studying the details.

Search Methodology:

The articles are searched from 2001 to 2021 in Google scholar using a strategy designed to optimize the retrieval of CT's, dissertations and case reports. The Search terms used were as follows *Pratisarneeya kshara* on Hemorrhoid, *kshara* therapy in hemorrhoid, *Pratisarneeya kshara* in *Arsha* etc.

OBSERVATION AND RESULTS:

Table 1: Published articles on the use of Pratisaraneeya Kshar and their effect

Sr.	Name of research title	Author name	Name of Kshara	Reduction in
No.				size of Pile
				mass
1 ^[6]	Clinical study of <i>Kutaja</i> and <i>Palasha</i>	T. S. Dudhamal, S. K.	Kutaja Kshara	80%
	Kshara in the management of Arsha	Gupta, Chaturbhuja		
		Bhuyan, Kulwant		
		Singh		
2 ^[7]	Efficacy of Kshara Karma (Caustic	Rajasree	Apamarga Kshara	70%
	therapy) in Primary and Secondary	Gopalakrishnan,		
	Third Degree <i>Arshas</i> (Haemorrhoids)	Ajith Kumar		
	- A Case Report	Raveendrakurup.		
3[8]	Comparative clinical study on the	Swarup Majumder,	Apamarga kshar	100%
	effect of Saptacchada	N. B. Mashetti		
	Pratisarneeya Kshara and Apamarga			
	<i>Pratisarneeya Kshara</i> in the			
	management of <i>Arshas</i> (Internal			
	Haemorrhoids)			
4 ^[9]	Study of Snuhi Pratisaraneeya kshara	Sharad Shrirang	Snuhi Kshara	100%
	for the management of abhyantara	Katkade & Jayant		

	arsha.	Kulkarni		
5 ^[10]	A clinical study on the efficacy of	Himadri Mudgal, P.	Vasa Teekshna	89%
	Vasa Pratisaraneeya teekshna	Hemantha Kumar	Kshara	
	kshara in the management of			
	abhayantara arsha/haemorrhoid			
6 ^[11]	Comparative study of Arka Kshara	Yogesh Badwe and	Arka Kshara	86.7%
	and Apamarga Kshara Pratisaran in	Kiran V. Maindale		
	the treatment of arsha – a			
	randomized controlled trial			
7 ^[12]	Evaluation of effects of Yavakshar	Ukhalkar V. P.	Yavakshar	95%
	ointment on abhyantar arsha		Ointment	
	(internal piles)			
8 ^[13]	Comparative clinical study on the	Swarup Majumder,	Saptacchada	100%
	effect of Saptacchada	N. B. Mashetti	Kshar	
	Pratisarneeya Kshara and Apamarga			
	Pratisarneeya Kshara in the			
	management of <i>Arshas</i> (Internal			
	Haemorrhoids)			
9 ^[14]	Efficacy of Kshar Application in the	Bijendra Shah, T S	Teekshna	69.7%
	Management of Internal	Dudhmal ,	Apamarga Kshar	
	Haemorrhoids -A Pilot Study	Shvmangal prasad		
10 ^[15]	A Study on Efficacy of Karaveera	Kailash Yala	Karveer Kshara	98%
	Pratisarniya Kshar Karma in Arsha			
	W.S.R. to internal Haemorrhoids			
11 ^[16]	A study on efficacy of Vibhitaki kshar	Kiran Kanchan	Vibhitaki Kshar	92%
	pratisarana karma in Arsha w.s.r. to	Rbams		
	internal Haemorrhoid			
12 ^[17]	A study on the efficacy of Karanja	Ashwini Marathe,	Karanja	100%
	Pratisarneeya Kshara in the	Shivalingappa J.	Pratisaraneeya	
	Management of Arsha w.s.r. to	Arakeri	kshara	
	internal Haemorrhoids			
13 ^[18]	A conceptual study on the effect of	Surabhi Chandra P,	Tilwaka Kshar	94%
	Tilwaka Prathisaraneeya Kshara in	Sridhar Rao SM,		

	Internal Haemorrhoids	Vasudha A		
14 ^[19]	A Clinical Efficacy of Kadali	Hardik Variya	Kadali Kshara	50%
	<i>Pratisaraneeya kshara</i> in the			
	management of <i>Abhyantra arsha</i>			
	(Internal Haemorrhoids)			
15 ^[20]	A Comparative Clinical study on	Padmendra	Aragvadaadi	91.25%
	Aragvadaadi Pratisaraneeya Kshar	Panchori, Hemantha	Pratisarneeya	
	and IRC in the management of	Kumar, B. Swapna	Kshar	
	abhyantara arsha w.s.r. to I and II			
	internal Haemorrhoid			
16 ^[21]	Clinico- Comparative study of	Mutteppa Patil	Yava Kshara	94%
	Apamarga kshar and Yava kshara in			
	the management of <i>Arsha</i> w.s.r. to II-			
	and III-degree Haemorrhoids			
17 ^[22]	Clinical study of Kutaja and Palasha	T. S. Dudhamal, S. K.	Palash Kshara	83%
	Kshara in the management of arsha.	Gupta, Chaturbhuja		
		Bhuyan, Kulwant		
		Singh		
18 ^[23]	Clinical Evaluation of Apamarga	LD Barik, SK	Apamarga	100%
	Pratisarneeya(teekshna) kshara	Debnath,DS Sahu ,J	Pratisarneeya	
	(Local Application) Haritaki Churna	Harzra	kshar with	
	in the management of <i>Arsha</i>		Haritaki churna	
	(haemorrhoids)			

Table No. 2: Duration required for complete reduction of pile mass and Complication during procedure

Sr.	Name of Kshara	Duration in	Complication During Procedure
No.		days	
1 ^[6]	Kutaja Kshara	14 days	Burning sensation - manage with <i>takra</i> watery
			discharge and slight oozing of blood
2 ^[7]	Apamarga Kshara	21 days	Blackish - brown discharge for 3-7 days
			development of scar
3 ^[9]	Snuhi Kshara	30 days	Burning pain treated with yashtimadhutail
			matra basti

4 ^[10]	Vasa Teekshna Kshara	30 days	No complications	
5 ^[11]	Arka Kshara	14 days	Burning pain, Inflammatory changes at site	
6 ^[12]	Yavakshar Ointment	24 days	Fibrotic changes (blackish in color) at site of	
			hemorrhoid	
7 ^[13]	Saptacchada Kshar	21 days	No complications	
8 ^[14]	Teekshna Apamarga Kshar	21 days	No Complication	
9 ^[15]	Karveer Kshara	21 Days	No Complication	
10 ^[16]	Vibhitaki Kshar	21 Days	No Complication	
11 ^[19]	Kadali Kshara	30 days	No complication	
12 ^[20]	Aragvadaadi Pratisarneeya	30 days	Burning sensation and Sphincter spasm ,	
	Kshar		treated with <i>Madhuyashti taila</i>	
13 ^[21]	Yava Kshara	24 days	Blackish color at site of hemorrhoid	
14 ^[22]	Palash Kshara	14 days	Burning pain treated with takra, watery	
			discharge and slight oozing of blood	
15 ^[23]	Apamarga Pratisarneeya kshar	21 days	No complications	
	with Haritaki churna			

DISCUSSION:

This comprehensive review delves into the outcomes of 18 clinical trials investigating the efficacy of *Pratisarniya Kshar* in the treatment of *Arsha* (Hemorrhoids), revealing a consistent trend toward a significant reduction in the size of pile mass. In alignment with Ayurvedic principles, *Arsha* is classified as a *Tridoshaja Vyadhi*, with *Raktaja Arsha* standing out due to its distinctive bleeding tendencies reminiscent of *Pittaja Arsha*. The treatment landscape for hemorrhoids, be it medical, surgical, or para-surgical, aligns with the four treatment principles outlined by Sushruta.

"Tatra kṣaraṇāt kṣaṇanādvā kṣāraḥ"

Su.su.11/4

It got its name "kshar" as it brings about the disintegration and subsequent shedding of vitiated tissues, tormenting them until they are compelled to fall off [24].

"Kṣaraṇād duṣṭatvaṅmāṃsādichālanāt, śātanādityarthaḥ; anye tu kṣaraṇāddoṣāṇāṃ chālanāt(dalhan commentary)

As per Dalhanacharya, *kshar* induces the breakdown of decayed and unhealthy tissues within the body, eliminating imbalances in doshas and prompting the shedding of the skin or tissues. Acharya Charak has explicitly referred to the term

"Kshar vid" for practitioners tantara exclusively engaged in the specialized technique Kshar of karma. When administered imprudently, Kshar can yield harmful effects and even death. However, when skilfully employed it heals even the most formidable diseases [25].

Mode of Action of Kshara: Pratisaraneeya Kshar, coagulates proteins within the hemorrhoidal plexus, initiating a cascade of healing actions. As it cauterizes the pile mass, it disintegrates haemoglobin, resulting in a distinctive blackish-brown discharge.

It reduces the size of the pile mass, inducing necrosis and obliteration of hemorrhoidal radicles, leading to the natural sloughing out of necrosed tissue. Subsequently, fibrosis and scar formation ensue, accompanied by the obliteration of hemorrhoidal veins. Culminating in complete wound healing [26]. Arka Kshara, Apamarga Kshara, and Kutaja Kshara have demonstrated significant efficacy in reducing the size of pile masses, thus warranting a closer examination of their mode of action. Highlighting their respective mechanisms can provide valuable insights into their effectiveness.

Apamarga Kshara possesses the property of Tridoshaghna, as described by Sushruta, indicating its ability to pacify the three doshas and balance the physiological

elements in the body. Additionally, its *Ushna Guna* aids in pacifying the *Vata dosha*, thereby potentially reducing the pain associated with piles. Actions such as *Chedana* (excision), *Bhedana* (incision), and *Lekhana* (scrapping) may be exerted by *Apamarga Kshara*. Moreover, its alkaline nature may lead to cauterizing effects on hemorrhoidal plexuses, resulting in fibrosis and necrosis of the mucosa, which could lead to the contraction of anal cushions and the sloughing out of hemorrhoids^[11].

Arka Kshara harmonizes all three doshas (Vata, Pitta, and Kapha), addressing the underlying imbalances contributing to pile formation. Its Ushna Guna alleviates pain associated with piles by pacifying the Vata dosha, providing relief to sufferers. Through actions like Chedana. Bhedana. Lekhana, Arka Kshara physically reduces pile masses, aiding in their elimination. Its alkaline nature and high pH (11.2) induce cauterization of hemorrhoidal potent plexuses, leading to fibrosis and necrosis of mucosa. This process contracts anal cushions and expels hemorrhoids, addressing the root cause. By promoting coagulation, necrosis, and fibrosis, Arka Kshara prevents further dilation of veins and prolapse of mucosal tissue, potentially providing long-term relief from hemorrhoidal symptoms^[11].

Kutaja Kshara is known for its ability to stop bleeding, making it effective in treating conditions like hemorrhoids where bleeding is a common symptom. Its Shodhan property aids in the removal of impurities and diseased tissue from the affected area. promoting healing. Kutaia Kshara exhibits cauterizing properties, known as Dahan, which help in burning away excess tissue and promoting the healing of wounds or ulcers. Additionally, it possesses Pachan properties, which may aid in breaking down and digesting abnormal tissue, promoting the regeneration of healthy tissue. Kutaja Kshara, with its Tri-doshasamak action, may help in balancing Vata, Pitta, and Kapha doshas, thus restoring the equilibrium of the body and promoting overall well-being[6].

Despite the apparent simplicity of Kshara Karma, its adoption remains limited, potentially attributed to the perceived challenges in preparing Pratisaraneeya Kshara with the correct potency. The meticulous adherence to Sushruta's technique for Kshara preparation, ensuring the achievement of "Pakwa Jambuphala Sadrusha Varna" pile of red mass within Shatamatra kala (approximately two minutes), addresses this concern. The costeffective nature of Kshara Karma as a parasurgical procedure is underscored, requiring a minimal hospital stay, exhibiting swift recovery times, and boasting low recurrence rates. Notably, the discussion highlights the superior efficacy of *Teekshna Kshar* over *Mridu Kshar*.

Additionally, the review sheds light on the remarkable effectiveness of Apamarg Kshar in reducing pile mass. Numerous comparative studies have employed Apamarg Kshar as a standard, emphasizing its pivotal role in advancing our understanding of Kshar Pratisaran. The duration of treatment varies across different Kshara therapies, typically ranging from 14 to 30 days. Specifically, in our study, the reduction in pile mass commenced as early as the 7th day of treatment, with complete reduction often achieved by the 28th day. Notably, approximately 50% of Kshara therapies demonstrated significant reduction in pile mass within 21 days. This variability in treatment duration may stem from factors such as the severity of hemorrhoids, individual patient responsiveness to treatment, and the unique properties of each Kshara formulation. While Kshara therapies are generally safe, some patients may complications experience during the procedure. Among the most commonly reported complications are a sensation, blackish-brown discharge, and

sphincter spasm. Blackish-brown discharge typically resolves on its own^[7] and sphincter spasm can be effectively managed with sitz baths^[11]. Additionally, local application of *Yashtimadhutaila* has proven effective in alleviating burning sensations^[20]. Importantly, these complications are easily treatable and do not typically lead to significant adverse effects.

CONCLUSION

In conclusion, this scientific exploration not only validates the efficacy of *Pratisarniya Kshar* in diminishing the size of pile mass but also emphasizes the significance of adherence to precise preparation techniques and the potential superiority of specific *Kshar* types. This systematic review contributes to the evolving discourse on the management of *Arsha*, offering insights that hold promise for further advancements in therapeutic interventions.

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