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## **ORIGINAL RESEARCH PAPER**



# NACARADI IITKARIKA IN THE MANAGEME

Ayurveda

### NAGARADI UTKARIKA IN THE MANAGEMENT OF PARINAMA SHOOLA – A CRITICAL REVIEW

**KEY WORDS:** parinama shoola, peptic ulcer, nagaradi utkarika

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Parinama Shoola (Peptic ulcer disease) is a chronic, relapsing and non-fatal GIT conditions that constitute 25% of the patient's visits to clinics and hospitals in India<sup>2</sup>. Samprapti of Shoola starts with intake of Viruddhahara like hot and spicy rich fatty diet, junk foods, addictions like tobacco chewing, smoking, alcohol and physical inactivity, mental stress leading to Agnimandya and formation of Ama, which trigger a progressing chain of events i.e. Ajeerna followed by Amlapitta(hyperacidity) and finally culminating into Shoola<sup>2</sup>. In Ayurveda Vata, Pitta or both are explained as causative factor of parinama shoola. So the drugs which are Vata, Pitta shamaka property will be useful. Nagaradi utkarika explained in Chakradatta - parinama sooladhikara contains nagara, thila and guda prepared in ksheera and mentions as if administered for 7 days will cure chronic parinama shoola<sup>4</sup>. On analyzing rasadi panchaka of the constituents from review of literatures available Snigdha guna and madhura vipaka of all constituents and grahi guna of nagara, vrana hara property of tila may be the cause of its vathapitha samaka and vyadhi harathwa property in parinama shoola. Easily available constituents makes this yoga unique with a promising outcome.

#### INTRODUCTION

ABSTRACT

Parinama shula or duodenal ulcer is a very common disorder owing to stressful life. Because of westernization of food, habits and culture, individuals are prone to develop this condition. It is chronic disorder approximately 25 million Indians are suffering from peptic ulcer disease at point in their lifetime .Duodenal ulcer are 5 to 10 times more common than gastric ulcer , the incidence for duodenal ulcer is 30-60% the male and the female ratio is 3:1the incidence of gastric ulcer is usually 50% and over. It affects male and female in the ratio of 2:1 each year. Its prevalence in India particularly south India is quit high.

Parinama shoola is a disease of Annavahasrotas characterized by pain during digestion of food and source of constant discomfort<sup>1</sup>. The common sites of pain include kukshi (Epigastric region), Jathara-Parshva (Right and Left Hypochondria), Nabhi (Umbilical region), Basti (Hypogastric region), Stanantra (Retrosternal) etc. Parinama shoola is a Durvigneya (difficult to manage) and pitta pradhana tridosaja vyadhi characterized by pain during digestion of food. Madhavakar has mentioned the prakopa of vatha by svanidana is followed by involvement of pitta and kapha, therefore, the factors provoke vata can be included in the aetiology of Parinama shoola. These include various faulty dietary habits, faulty exercise and deliberate retention of urges, Kshobha, Trasa, Shoka and krodha etc are the causative factors play role in the production of shoola roga. Shoola is the presenting and the most troublesome symptom in all the disease of Annavaha shrotas.

Modern aspect of peptic ulcer can be explained as imbalance between the aggressive (ac bile etc.) and the defensive (gastric mucus and bicarbonate secretion, prostaglandins, nitric oxide, innate resistance of the mucosal cells) factors, a bacteria in the stomach called H.Pylori spiral-shaped bacterium that lives in the acidic environment of the stomach. Research conducted revealed the presence of this bacterium in almost 92% cases of duodenal ulcers and 73% cases of gastric ulcer<sup>3</sup>. Over medication like NSAIDs, alcohol, cigarette smoking habbits, poor functioning of pylorus sphincter causing reflux of bile are the etiological factors. O blood group, Stress has been implicated in predisposing duodenal ulcer. Patients usually develops periodic epigastric pain, especially hunger pain. Epigastric pain during night hours awakens the patient from sleep. Spicy, fried & hard to digest food are aggravating factors. Heart burn, nausea, loss of appetite & vomiting are the other features. Pyloric stenosis due to fibrosis of repeated ulcers & malignancy (rarely) are the complications of duodenal ulcers. Endoscopy (gastroduodenoscopy) is the chief investigation in the diagnosis of duodenal ulcer. CLO test is to determine the presence of H.Pylori infection. As recurrence of the ulcer is quiet common even after surgery, an effective Ayurvedic formulation has a great role.

Nagaradi utkarika explained in Chakradatta - parinama sooladhikara contains nagara, tila, guda along with ksheera and described as it has got the potency to cure even chronic parinama shoola with in 7 days. The reference Sloka (verse) is sited below<sup>4</sup>Nagaratilagudakalkam payasa samsadhya ya pumanadhyath | Ugram parinamathishoolam tasyapythi saptharatrena || Combination of nagara with tila is also mentioned in amavtha chikitsa of bhavaprakasha

#### AIMS & OBJECTIVES:

To analyse " nagaradi utkarika" and its mode of action in parinama shoola

#### METHODOLOGY

The study was done by in depth literature survey through various Ayurveda classical text books like Carakasamhita, Susruta samhita, Ashtanga hridaya, bhavapraksha and various journals, articles. Review mainly focused on the pharmacological properties of each ingredient in modern as well as Ayurvedic perspective.

#### **RESULTS AND DISCUSSION**

The mode of action of a formulation depends on rasadi panchaka of its ingredientsbotanical identity, part used, rasapanchaka, chemical constituents, pharmacological properties of each ingredients analysed.

Table 1: Botanical	identity and	part used	of each				
ingredients of nagara	ingredients of nagaradi utkarika						

SI. No	Ingredients	Botanical name	family	Part used
1	Nagara	Zingiber officinale	Zingiberaceae	rhizome
2	Tila	Sesamum indicum Linn	Pedaliaceae	Seeds, oil
3	Guda	Saccharum officinarum	poacea	
4	Ksheera			

Table : 2 Pharmacological researches on each ingredients

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	Ingredients	Botanical name	Chemical constituents	Pharmacological Properties Reported			
	Nagara	Zingiber officinale	Zinngiberines Zingiberol Geraniol Gingerdiol Gingerone	Antihelminthic, anti oxidant, tissue protective, PGA synthetase inhibitor			
	Tila	Sesamum indicum Linn	Fixed Oil, Neutral lipids, glycolipids, sesamose, sesamolin, sesamolinol	Antioxidant, Hepatoprotective, Antitumour, Hypotensive			
	Guda	Saccharum officinarum	, sucrose (65- 85%), invert sugar (10-15%)	Haematenic, maintains acid balance in cells, strengthens nerves			
	Ksheera		Water, Carbohydrate, Protein, Fat, Enzymes, Vitamins & minerals	anti tubercular activity and have the properties to cure emaciation, injuries.			

As per Ayurveda principles, pharmacological actions of a drug can be inferred through Rasadi pancaka and classical categorization of drugs

# Table 3:Pharmacological properties in Ayurvedic perspective<sup>5,6,7</sup>

Name	Grouping	Rasa	Guna	-	-		Vyadhi
				a	a		karma
Nagara	Pippalya			Usna	Madh	Vatha	Gulma,
	di		Snigda		ura		grahani
	gana,Trik		Thikshn			hara,So	
	atu		a			phahara	
	Panchako la					Samgra	
	1a Harithava					hi, pachan	ha,
	rga					a,	
	Dipaniya,					Kandaa	
	Sulaprasa					mayaha	
	mana					ram	
						Viband	
						aharam	
						Soolaha	
						ram	
Tila	Deres a sha	Varb	C	Ushn	17 - 4	Vata	<b>T</b> . 4
Illa	Pureesha virajanee		.svadhu		Katu	vata hara	Vatarog
			snigdha			grahi,v	a, grahani
	swedopa					ataghna	
			Vyavayi			,agnima	
	<b>.</b> .		,Guru,S			thipreth	
			nigdha,			а,	
		Katu	Sukshm			vrenahit	
			a			ha,	
						Vrana	
						Dahana shaka,	
						Vrana	
						Samsho	
						dhaka	
Guda	Ikshu	mad	Snigdh	seet	madh	Sleshm	Vrushv
			-	-	ura		am,
	-					vathapit	vatharo
						haghna	ga
						agnide	
						epanam	
						arukpra	
						sadana	
						m,	

Kshee Ksheer madhu Snigd seeth mad Vatha Sula, ra a varga ra ha, a hura pitha udavart sara sara ka dhanakara gulma. ka grahani jeevanam, ,, balyam,oj ovardhana

#### Mode of action

Mode of action of nagaradi utkarika can be explained only on the basis of rasadi panchaka of its ingeredients.nagaradi utkarika is a formulation explained for the management of parinama shoola. Description about the Combination of nagara with tila can be also visible in amavatha roga chikitsa of bhavaprakasha samhitha.in both these cases shoola haratha property of this combination made it effective. When analyse the case of nagaradi utkarika in parinama shoola, most of the ingredients has got madhura thiktha rasa, seetha veerya, madhura vipaka, vathapithagna properties and shoola harathwa, sophahara propery of nagara and tila along with vrane hitha, deepana, grahani hitha property of tila, vatahpithaghna, arukaprasadana, property of guda, sandhana kara, balya, sula hara of anupana ksheera plays an important in

the treatment of parinama shoola. Most of the ingredients plays an important role in maintaining the balanace between the aggressive (ac bile etc.) and the defensive (gastric mucus and bicarbonate secretion, prostaglandins, nitric oxide, innate resistance of the mucosal cells) factors. Jaggery with its high magnesium content boosts intestinal strength and reduce acidity. Milk with its high calcium content prevents acid build up and provide a temporary coating forintestinal mucosa. As ksheera is used in small quantity as anupana it helps in healing and provide an environment for prostagalandin enhancing property of tila, nagara, antacid property of jaggery which may be the exact mechanism of the action in *parinama shoola*.

#### Samprapthi vighatana of Parinama shoola

Nagaradi utkarika predominantly is katu, thiktha rasa, Shita in Virya and Madhura in Vipaka. it removes kapha and pitha avarana, and vatha samana. Tiktha rasa and madhur vipaka shows deepana and pachana action which leads to agnivrudhi, it causes samyak formation of ahara rasa and sapthadathu which leads to ojovrudhi.ksheera also improves ojus

#### CONCLUSION

Most common cause of ulcers according to Ayurvedic aspect is vata and pitta or both together along with kapha avarana<sup>8</sup>. So to treat the ulcer we need the drugs which pacify both vata and pitta and remove kapha avarana and agnideepana.or drugs which are katu thiktha rasa pradhana Shita in Virya and Madhura in Vipaka. Nagara and tila are having agnideepana, and kapha hara property guda and ksheera are Shita in Virya and Madhura in Vipaka and vatha pitha samaka. Ksheera has ulcer protective effect, it also increases mucous secretion so prevent the mucosal lining of stomach and at last it has antibacterial effect which helps in combating the adverse effect of Helicobacter pylori which is most common cause of ulcer. Similarly guda is antacid and mucous secreting, so nagardi utkarika is very helpful in treating the peptic ulcer.

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