

Review Article

A CONCEPTUALIZED STUDY ON UNDERSTANDING OF *PUYALASA* WITH REFERENCE TO DACRYOCYSTITIS

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ARSTRACT

Every disease in Ayurveda, the science of life has a different view in understanding a disease in a systematic way. Among the Astangas of Ayurveda, Shalakya tantra is given importance equally by all Acharyas. Acharya Sushruta has explained seventysix eye diseases with their medical and surgical management in detail. Puyalasa, one of the Sandhigataroga can be correlated to dacryocystitis based on the symptomatology which includes swelling in Kaninika sandhi, which later on undergoes suppuration causing thick purulent discharge. Dacryocystitis is the inflammation of the lacrimal sac is not an uncommon condition, which is an important cause of ocular morbidity, both in children and adults. The management constitutes of simple topical medication to surgery and with certain amount of recurrences. Though Puyalasa is due to Tridosha it is considered as a curable disease and the treatment includes Siravyadha, Upanaha and Anjana kriya and internal medication which can reduce the recurrence rate and other secondary diseases in eyes. The clinical features and the treatment of Dacryocystitis has similarities with the disease *Puyalasa* which has been told by our ancient seers. The drugs mentioned in the treatment of the disease Puyalasa are mainly having Doshahara guna, Vrana shodhaka guna and are Chakshushya. Based on the Yukti of the physician the selection of the appropriate treatment depends and based on this the recurrence rate of the disease can be controlled well.

KEYWORDS: Puyalasa, Sandhigataroga, Dacryocystitis, Chikitsa.

INTRODUCTION

The importance of *Netra* among all sense organs is quoted in Ayurveda as Sarvendriyanam nayanam pradhanam i.e., eye is the prime sense organ among the all sense organs¹. *Netra rogas* are classified in a specific way into 76 types² by Susrutha, 94 types by Vagbhata. Among that Sandhigata netra roga consists of nine diseases3 and Puyalasa is one among these 9 Sandhigata netra roga which occurs specifically in Kaninika sandhi4. It is said to be a Sadhya vyadhi⁵ though it is Tridoshaja, as the selection of particular drugs and treatment based on the stage helps to combat the pathology easily. Dacryocystitis commonly occur in 2 discrete age categories, infants and adults older than 40 years. Acute dacryocystitis in new borns is rare, occurring in fewer than 1% of all new borns. Acquired dacryocystitis is primarily a disease of females and is most common in patients older than 40 years, with a peak in patients aged 60-70 years. Epiphora one of the cardinal feature in this condition is found to high in incidence about 33% due to Dacrocystitis.

Puyalasa According to Different Acharyas

Sushrutha: A condition in which there will be *Pakwasopha* (inflammation) occurring at the *Kaninika sandhi* (inner canthus) causing *Sandra putigandha yukta puyasrava* (thick purulent discharge)⁶.

Vagbhata: Sukshma vrana occurring in Kaninika sandhi (inner canthus) producing Sopha/samrambha (inflammation) causing Adhmana in Kaninika leading to Puyalasa⁷.

Yogaratnakara: Pakvasopha(inflammation) in the Sandhi causing Suchibedhavat toda(pain as if pricking by needle) along with Putigandhayuktha puyasrava(thick purulent discharge)⁸.

All the *Acharyas* state this as a *Tridoshaja Bhedana Sadhya Vyadhi*¹⁰. With an another understanding of this disease under the concept of *Vrana*: In the word *PUYALASA "Puya"* means pus, "*Alasa"* means collection, without flow¹¹. *Sandra puyasrava* is the characteristic feature of *Mamsagata vrana*¹².

The site of clinical manifestation of *puyalasa* is specified by *Deepika* in commentary of *Sharangadhara* as the place between nose and the beginning of eye i.e., *Kaninika sandhi*¹³ which can be perceived as medial canthus. *Vagbhata* has specifically described that the pathological events in *Puyalasa* takes place in two stages:

Stage 1: Stage of *Sopha*: swelling in *Kaninika vartmasandhi*.

Stage 2: Stage of *Vrana*: a small ulcer discharging the contents. After one such episode, it usually relapses within few days¹⁴.

Treatment Protocol

According to Sushrutha

Rakta mokshana is the treatment of choice for Puyalasa. As mentioned by Dalhana it should be done after Snehana and Swedana.

- Upanaha (bandaging) with drugs having Dosahara, Vranashodhana, Chakshushya properties.
- Kritsnavidhi- both internal and external purificatory procedures.
- ➤ Pakanathi- treatment of the suppurated wounds¹⁵.
- ➤ Treatment of *Vranashotha* can be advocated depending upon the stages. In the first stage, *Vimplapana*, or firmly pressing and squeezing by thumb helps for the early suppuration. This should be done after *Snehana* and *Swedana* of the affected part.

According to Vagbhata

- Siravyadha: The Siras of the frontal region (Lalata) should be selected for Vyadhana-"Shironetra vikareshu lalata" 16.
- > *Jaloukavacharana* helps to relieve the condition.
- > After Siravyadha, Upanaha (bandaging) has to be done.
- ➤ Akshipakatyaya chikitsa should be followed¹⁷.

Specific Anjana yogas that benefits in general

The powders of Saindhava, Ardraka, Kasisa, Loha, Tamra mixed with Madhu¹⁸.

- Varti is prepared from Sukshma churna of Loha, Tamra, Pippali, Amlavetasa, Saindhava, Madhu are taken in Sama pramana for quick relief from Puvalasa¹⁹.
- Churnas of Saindhava and Kasisa are taken and do Mardana with Ardraka swarasa. Anjana is made by this is an exclusive remedy for Puyalasa²⁰.

Prognosis

Indu, the commentator of *Ashtanga sangraha* opines that if the management of *Puyalasa* is not properly done, it will lead to *Pilla* stage. If the condition continues, it should be treated with *Agnikarma*, using fine tipped hot needles²¹.

Dacrocystitis

Inflammation of the lacrimal sac is not an uncommon condition

Broadly can be classified into two types:

Chronic Dacryocystitis²²

It is more common than the Acute dacryocystitis with multifactorial etiology. The well established fact is a vicious cycle of stasis and mild infection of long duration.

The etiological factors can be grouped under

Predisposing factors	Factors responsible for stasis	Source of infection	Causative factors
	of tears in lacrimal sac	veda	
1. More common in	1.Anatomical factors which	1.Lacrimal sac may	1.Staphylococci.
between 40 and 60	retard drainage of tears.	get infected from the	2.Pneumococci.
years of age.	2.Foreign bodies in the sac.	conjun <mark>cti</mark> va, nasal	3.Streptococci.
2. More seen in	3.Excessive lacrimation.	cavity or paranasal	4.Pseudomonas pyocyanea.
females.	4.Mild grade inflammation of	sinuses	5.Rarely chronic granulomatous
	lacrimal sac.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	infections like tuberculosis,
	5.Obstruction of lower end of	320	syphilis, leprosy and occasionally
	the naso-lacrimal duct by nasal	DR 40°	rhinosporiodosis may also cause
	diseases		dacryocystitis

Clinical Features

Clinical features of chronic dacryocystitis may be divided into four stages

Stage of chronic catarrhal	Stage of lacrimal mucocele	Stage of chronic suppurative dacryocystitis	Stage of chronic fibrotic sac
dacryocystitis			
Mild inflammation of	It follows chronic	Due to pyogenic infection, the	low grade repeated
the lacrimal sac	stagnation causing	mucoid discharge becomes	
associated with	distension of lacrimal sac:	purulent, converting the	period ultimately results in
blockage of naso-	Epiphora associated with	1	a small fibrotic sac due to
lacrimal duct.	a swelling just below the	Epiphora associated with	thickening of mucosa,
Watering eye is the only	inner canthus.	recurrent conjunctivitis and	which is often associated
symptom in this stage.	Regurgitation Test:	swelling at the inner canthus	with persistent epiphora
Regurgitation Test:	Milky or gelatinous	with mild erythema of the	and discharge.
Clear fluid or few	mucoid fluid regurtitates	overlying skin.	Dacryocystography at this
fibrinous mucoid flakes	from the lower punctum	Regurgitation Test: Frank	stage reveals a very small
regurgitate.	on pressing the swelling.	purulent discharge flows from	sac with irregular folds in
Dacryocystography	Dacryocystography	lower punctum.	the mucosa.
reveals block in naso-	reveals a distented sac	If openings of canaliculi are	
lacrimal duct.	with blockage somewhere	blocked at this stage the so	
	in the nasolacrimal duct.	called encysted pyocele results.	

Complications

- Chronic intractable conjunctivitis
- Ectropion of lower lid
- o Corneal ulcerations

High risk of developing endophthalmitis is always there if an intraocular surgery is performed in the presence of dacryocystitis.

The occurrence of these complications can be emphasized on what our ancient seers have stated i.e., leading to *Pilla rogas*.

Treatment

- **1.Conservative treatment:** By probing and lacrimal syringing useful in recent cases only.
- **2. Ballon catheter dilation (ballon dacryocystoplasty):** Done in patients with partial nasolacrimal duct obstruction.
- **3. Dacryocystorhinostomy (DCR):** This is the operation of choice as it re-establishes the lacrimal drainage. Before surgery, it should be controlled by topical antibiotics and repeated lacrimal syringing.
- **4. Dacryocystectomy (DCT):** It should be performed only when DCR is contraindicated in too young (less than 4 years) or too old (more than 60 years), markedly shrunken and fibrosed sac and in cases which are secondary to systemic disorders.
- **5.Conjunctivodacryocystorhinostomy (CDCR):** It is performed in the presence of blocked canaliculi.

Acute Dacryocyctits

It is an acute suppurative inflammation of the lacrimal sac, characterised by presence of painful swelling on the region of sac.

Etiology: May occur due to direct involvement from the neighbouring structures such as paranasal sinuses, dental abscess, surrounding bones or upper jaw teeth caries.

Causative organisms commonly involved are pneumococcal, streptococcus, haemolyticus, staphylococcus.

Clinical Features

- Stage of cellulitis: painfull swelling in the region of lacrimal sac, epiphora, fever and malaise. The swelling will be red, firm, tender.
- Stage of lacrimal abscess: continued inflammation causes occlusion of the canaliculi due to oedema. The sac is filled with pus, distends and its anterior wall ruptures forming a pericystic swelling.
- Stage of fistula formation: when lacrimal abscess is left unattended, it discharge spontaneously leaving an external fistula below the medial palpebral ligament. Rarely abscess may open into the nasal cavity forming an internal fistula.

Complications

Acute conjunctivitis, corneal abscess, lid abscess, osteomyelitis of lacrimal bone, orbital cellulitis, facial cellulitis, acute ethmoiditis. Rarely cavernous sinuses thrombosis and generalised septicaemia may develop.

Treatment

During the stage of cellulitis: It consists of systemic and topical antibiotics to control infection and systemic anti inflammatory analgesic drugs and hot fomentation helps to relieve pain and swelling.

During the stage of lacrimal abscess: In addition to the above treatment, when pus starts pointing on the skin, it should be drained with a small incision. The pus should be gently squeezed out, the dressing done with betadine soaked roll gauze. Later on depending upon condition of the lacrimal sac either DCT or DCR operation should be carried out, otherwise recurrence will occur.

Treatment of external lacrimal fistula: After controlling the acute infection with systemic antibiotics, fistulectomy along with DCT or DCR operation should be performed.

An Bird's Eye view On Parlances

Clinical Features				
Ayurvedic View	Modern View			
Sandra Puya Srava	Thick purulent discharge			
Sopha and Samrambha.	inflammation of the lacrimal sac			
Adhmana in Kaninika.	Swelling in the region of lacrimal sac			
TREATMENT ASPECT				
Ayurvedic View	Modern View			
Bhedhana followed by Lekhana	Drainage with small incision in the stage of lacrimal abscess			
Rakthamokshana-Siravyadha	Use of antibiotics			
Upanaha sweda	Hot fomentation and analgesics			
Shotaghna lepa	Use of anti-inflammatory drugs			
Bandhana	Bandaging is done after drainage of pus.			

CONCLUSION

The proper understanding of every stage in *Puyalasa* helps to plan the treatment appropriately and relieve the condition completely. Both *Antah parimarjana* and *Bahir parimarjana chikitsa* are explained in this condition which helps in avoiding recurrence of the disease. The drugs used in the treatment of this disease are having *Doshahara guna*, *Vrana shodhaka guna* and are *Chakshusya*.

Based on the *Yukti* of the physician, the permutations and combinations of drugs depending upon the condition of the disease is selected and used appropriately. The phytonutrients and active compounds in the drugs mentioned in our science helps to tackle the

doshas at different levels by counteracting the pathogenesis of the disease. If the proper procedures are adopted as mentioned by *Acharyas* it helps to avoid the recurrence of the disease, thereby benefitting the patients by avoiding the surgeries.

REFERENCES

- Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 2. Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha",

- Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 3. Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 4. Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 7. Ashtanga sangraha of vriddha vagbhata with the Shashilekha Sanskrit commentary by Indu, edited by Dr.Shivprasad Sharma, chapter-, 13 verse-8, pp-964, pg-694.
- 8. Yogaratnakara with hindi commentary by Vaidya Shrilakshmipati Shastri edited by Bhisagratna Sri Brahmasankaramishra shastri, Chaukambha Sanskrit bhawan, Varanasi, reprint edition-2012, Uttarakhanda, Netrarogadhikara, verse- 102, pp-356, pg-647.
- 9. Madhava nidana of Sri Madhavakara with the Madhukosha Sanskrit commentary by Sri Vijaya rakshitha and Srikanthadatta with the Vidyothini Hindi commentary and notes by Sri Sudarshana shastri, reprint and edition by Prof. Yadhunandana Upadhyaya, part-2, reprint edition-2004, chapter-59, verse-70, pp-600, pg-368.
- Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 11. Professor Udayshankar-Text book of Shalakya tantra, Chaukambha orientalia, Varanasi, 1st Edition-2012, pp-744, pg-600.
- 12. Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha",

- Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 13. Sharangadhara samhita, Pandit Sharangadhara acharya, with the commentary Adamalla deepika and Gudartha deepika, edited by Pandit Parasurama sastri, Vidyasagar, Chaukambha Sanskrit bhawan, Varanasi, Prathamakhanda-chapter 7th, pp-398, pg-118.
- 14. Professor Udayshankar-Text book of Shalakya tantra, Chaukambha orientalia, Varanasi, 1st Edition-2012, pp-744, pg-600.
- Sushrutha Samhita, with Sri Dalhanacharya teeka, edited by Narayan Ram Acharya "Kavyathirtha", Chaukhambha orientalia, Varanasi, reprint edition-2009, Uttaratantra 17th chapter, Verse-4, 5, 6, 7, pp-824, pg-625.
- 16. Ashtanga sangraha of vriddha vagbhata with the Shashilekha Sanskrit commentary by Indu, edited by Dr.Shivprasad Sharma, chapter-13, verse-8, pp-964, pg-694.
- 17. Ashtanga sangraha of vriddha vagbhata with the Shashilekha Sanskrit commentary by Indu, edited by Dr.Shivprasad Sharma, chapter-13, verse-8, pp-964, pg-694.
- 18. AshtangaHridaya with commentaries sarvanga sundari of Arunadatta and Ayurveda-rasayana of Hemadri, Annotated by Dr Anna Moreswar Kunte and Krishna Ramachandra Sastri Narre, edited by Pt.Hari Sadasiva Sastri, Chaukhamba Surabharati Prakasan, Varanasi, Edition 2008, Uttaratantra, chapter-11, verse-4-5, pp-956.
- 19. 19. Gadanigraha of Sri Vaidya Sodhala with The Vidyothini Hindi commentary part-3 by Sri Indradeva Tripathi, Editedby Sri Ganga Sahaya Pandey, Reprint edition-2011, Netra rogadhikara, verse-400, pp-, pg-157.
- 20. Yogaratnakara with Hindi commentary by Vaidya Shrilakshmipati Shastri edited by Bhisagratna Sri Brahmasankaramishra shastri, Chaukambha Sanskrit bhawan, Varanasi, reprint edition-2012, Uttarakhanda, Netrarogadhikar, verse-102, pp-356, pg-647.
- 21. Ashtanga sangraha of vriddha vagbhata with the Shashilekha Sanskrit commentary by Indu, edited by Dr.Shivprasad Sharma, chapter-14, verse-4, pp-964, pg-696.
- 22. A K Khurana & Aruj K Khurana. Comprehensive Ophthalmology. 6th edition. New Delhi. Jaypee Brothers Medical Publishers(P) Ltd.pp-623, pg-393

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