

An International Journal of Research in AYUSH and Allied Systems

Case Study

AYURVEDIC MANAGEMENT OF DRY EYE

Chichili Dhanushya^{1*}, Ch.Ramadevi², K.Anasuya³

*¹PG Scholar, ²Professor and H.O.D, PG Studies-Shalya, Shalakya, Prasuthi Tantra, ³Principal, Dr. BRKR Government Ayurveda College and Hospital, Erragadda, Hyderabad, Telangana, India.

Article info

Article History:

Received: 04-03-2024 Accepted: 09-04-2024 Published: 07-05-2024

KEYWORDS:

Shushkakshipaka, Dry eye, Kriya kalpa, Shamanoushadis.

ABSTRACT

Dry eye is a multifactorial illness of the tears and ocular surface, dry eye causes pain, disruptions to vision, instability in the tear film, and maybe even damage to the ocular surface. Tear secretion gives the corneal epithelium oxygen and continuously lubricates and moisturises the ocular surface. Dry eyes result from a disruption in regular tear production. Local, systematic and environmental factors play a major role in pathogenesis. Often exacerbated by smoke, wind, heat, low humidity or prolonged use of the eye. One of the most common disorders affecting the eyes is dry eye, affecting millions of people globally. The worldwide prevalence ranges from 5% to 50%, depending on the geographic region, Prevalence rate in India is higher than the global prevalence and ranges from 18.4% to 54.3%. Shushkaksipaka is one among Sarvagata netra rogas disease affecting all parts of the eye can be symptomatically correlated with dry eye. *Vata* and *Pitta* vitiation as per Ayurvedic view point are the major contributing pathological factor in its manifestation. This is a single case study of Shushkakshipaka treated with Deepana, Pachana, Kosta Shodhana, followed by 2 sittings of Ksheera Saindhava Prakshalana and Suntyadi Anjana and Anu taila Pratimarsha Nasya. At the end of the study improvement in foreign body sensation and itching. Patient got very significant result is being discussed here.

INTRODUCTION

Dry eye is not a disease entity, but a symptom complex occurring as a sequela to deficiency or abnormalities of the tear film^[1]. One of the causes of Dry Eye is excessive use of computer and Visual Display Terminal (VDT). Prolonged use of these devices leads to many complications. Prolonged use of Visual Display Terminal (VDT) make reduced blinking, exposes the eye surface to environment for more than normal time. Thus, the tear film gets evaporated which leads to dry eye. Commonly found in menopausal and post menopausal women.

Dry eye is characterized by symptoms like dry eyes, eye strain, burning sensation in eyes, foreign body sensation or gritty sensation in the eyes, itching in eyes, headache, paradoxical tearing, mildly to

Access this article online			
Quick Response Code			
回総器回	https://doi.org/10.47070/ayushdhara.v11i2.1538		
	Published by Mahadev Publications (Regd.) publication licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0)		

moderately decreased vision, ropy mucus discharge. According to signs and symptoms in Ayurveda it can be correlated with *Shushkakshipaka*. *Shushkakshipaka* is mentioned under *Sarvagata Netra Rogas*. As per Ayurveda *Vata*, and *Pitta* vitiation in *Shushkakshipaka* is the basic pathology^[2]. *Sarangadhara* considered this as *Vata raktaja*^[3].

Shushkashipaka is a disease which is characterized by the Paka of Akshi (eye) due to Sushkata caused by altered coherence of Ashru with ocular surface or lack of Ashru. According to Ayurveda, dry eye is not merely an ocular surface disorder, rather this is one of manifestation of the deranged metabolism of body tissues. Asru (tear film) is the byproduct of Rasa, Meda, and Majja dhatu and without normalizing/altering them we cannot treat dry eye syndrome optimally.

Vishushkata	Dryness	
Aavila Darshanam	Blurred vision	
Koonitam	Narrowing of palpebral aperture	
Daruna Ruksha	Hardness and roughness of	
Vartma	eyelids	
Sudaruna Vata	Difficulty in opening and closing	

pratibodhanam	of eye
Garshana	Gritty sensation
Paka	Inflammation
Toda and Bheda	Pain
Sheetechah	Liking cold things
Sandahayante	Burning sensation

AIM

To evaluate the efficacy of *Suntyadi anjana* and *Ksheera saindhavadi prakshalana* in the management of *Shushkakshipaka*.

OBJECTIVE

To prevent dry eye complications.

To provide cost effective treatment modalities to all the patients

MATERIALS AND METHOD

Case History

This is a case report of A 46-year-old woman came to GAH's eye OPD of Shalakya tantra department, Hyderabad on 04-4-2023 with chief complaints of dryness and itching sensation in both eyes since 2 years and burning and foreign body sensation since 3 months. The subject was thoroughly examined and diagnosed as *Shushkakshipaka*.

History of Present Illness: Patient was apparently normal 2 years back, she developed dryness and itching sensation in both eyes, left eye more than the right eye. It was insidious in onset and gradually progressive in nature.

History of past illness: No history of pain, redness, headache, double vision. No history of trauma,

exposure to radiation. No h/o of DM, HTN, RA or major illness. No h/o of diseases like Sjogrens syndrome, lagophthalmos, meibomian gland dysfunction.

Family history: No significant family history

Ocular History

No H/o of using lubricating eye drops

No H/o of any ocular surgery

Personal History

Mixed diet

Normal appetite

Regular bowel and bladder movement

Normal sleep

Madhyama koshtha

Sama agni

Systemic Examination

CVS: S1, S2 heard. No murmurs

RS: B/L air entry equal, no added sounds

CNS: Conscious, well oriented to time, place and

person

G.C: Moderate, afebrile

Samprapti Ghatakas

Dosha - Vata and Pitta

Dhatu - Rasa, Meda and Majja dhatus

Dushya - Rakta, Ashru (tear film)

Srotas - Ashruvaha srotas

Sadhya- Sadhyatwa - Sadhya

Upashaya - Shita upachara

Ocular Examination

	Right Eye	Left Eye	
Eye brows	Normal	Normal	
Eyelids	Normal	Normal	
Eyelashes	Normal	Normal	
Conjunctiva	nctiva Normal Normal		
Sclera	Sclera Normal Normal		
Cornea	Normal in size, shape, transparency, sheen Normal in size, shape, transparency, sh		
Iris	Iris Dark brown in Colour Dark brown in colour		
Pupil	Normal in size, reaction to light	Normal in size, reaction to light	
Lens	Normal	Normal	

Grading and scoring will be adopted for assessing clinical feature before and after treatment

	Criteria	Grade	Score	
Foreign Body Sensation	Absence of foreign body sensation		0	
	Foreign body sensation on/off on exposure to environmental stress			
	Foreign body sensation frequently, with or without environmental stress		2	
Foreign body sensation constant without environmental stress		Severe	3	
Dryness	Dryness Absence of dryness		0	
	Dryness occasional/episodic, occurs under environmental stress	Mild	1	
Dryness frequent/episodic, with or without environmental stress			2	

Chichili Dhanushya, Ch.Ramadevi, K.Anasuya. Ayurvedic Management of Dry Eye

	Dryness frequent/episodic, with or without environmental stress	Severe	3
Itching	Absence of itching sensation	Nil	0
	Occasional/episodic, occurs under environmental stress	Mild	1
	Frequent/episodic, with or without environmental stress	Moderate	2
	Constant without environmental stress	Severe	3
Burning sensation	Burning sensation Absence of burning sensation		0
	Occasional/episodic, occurs under environmental stress	Mild	1
	Frequent/episodic, with or without environmental stress	Moderate	2
	Constant without environmental stress	Severe	3

Treatment given	Drug Name	Duration	Dosage
Deepana, Pachana	Tab. Laghu sutha sekar ras	3 days	2 BD before food
Kosta Shodhana	Avipattikara churna	3 days	6gm bed time
Nasya	Anu taila [4]	28 days	2 drops
Anjana	Suntyadi Anjana [5]	on 1st, 6th, 11th, 16th, 21st day	for 2 mins
prakshalana	Ksheera, Saindhava [6]	on 1st, 6th, 11th, 16th, 21st day	for 5 mins





RESULT AND OBSERVATION

	Before treatment	After 1st cycle	After 2nd cycle
Foreign body sensation	Grade - 2	Grade -1	Grade -0
Dryness	Grade - 3	Grade -2	Grade -1
Itching	Grade -1	Grade -0	Grade -0
Burning sensation	Grade -2	Grade -1	Grade - 1

Schirmer test

	Before treatment	After 1st cycle	After 2nd cycle
OD	5mm	7mm	8mm
OS	3mm	4mm	15mm

DISCUSSION

Mode of Action of *Anjana: Anjana* functions as a foreign body on the surface of the eye, causing the eyes to reflexively secrete fluid in reaction to foreign objects in the cornea and conjunctiva. A large amount of drug is washed out of the eye by tears, another large percentage is drained into the nasolacrimal duct, where it can be absorbed into the systemic circulation by the nasolaryngeal and oral mucosa, and a small amount is digested by tear enzyme, *Gutika* and *Choorna* are more beneficial for *Anjana*, because these contain nanoparticles which are deposited in cul-de-

sac and there by increases the bioavailability to enhance the ocular absorption.

The ocular absorption of *Anjana* may initiate through the conjunctiva and cornea. Once it crosses the conjunctiva, the sclera is more permeable and it allows the drug to penetrate other interior structure of eye i.e., ciliary body, iris, aqueous humor, lens, vitreous humor. But due to increased vascularization of conjunctiva, ciliary body and iris, considerable amount of drug enters into the systemic circulation again.

Mode of action of *Prakshalana*: Agents that reduce the surface tension will increase the corneal wetting and thus more drugs for absorption are available. During *Prakshalana* the eyes will be asked to open and closed this will reduces the surface tension so that corneal wetting is increased. Small quantity of the drug which has high concentration is sufficient in the form of thin stream to provide more drug delivery to cornea.

Action of Suntyadi anjana and Ksheera saindhavadi prakshalana

Prior to Nasya, Kaya shodana is mandatory and hence Kosta shodana was done with Avipattikara churna. Nasya was done with Anutaila as it is indicated in Shushkakshipaka. Anutaila is Brumhana and Tridosha hara property. In dry eye, there will be Srothorodha in the secretion of tears and improper formation of layers of tear film. Shunti is having Rooksha property and Ama pachana in nature, so it clears Ama and promotes tear production from lacrimal glands. Ghritha is added with shunti to reduce the Teekshnatha. After Anjana, Seka with Ksheera and Saindhava will reduce Teekshnatha.

Ksheera and Ghritha is having Snigdha and Guru guna, Madhura rasa, Sheeta virya and Vata pitta hara^[7]. Nirvapana^[8] (relieves burning sensation) properties, effect is seen in symptoms like Daha and Kandu. Ghritha and Ksheera are lipophilic, so it is permeable to corneal layers and its viscous nature keep the ocular surface protected. Due to the modern life style, diseases of eyes are common, so implementing Nasya karma along with Kriya kalpas can give promising results of Netra rogas.

CONCLUSION

The eye is unique and necessary organ that is constantly exposed to the environment. In Ayurveda which are mainly treated with *Kriya kalpas*. *Kriya kalpas* has several advantages over oral administration. In the *Kriyakalpas*, the affected tissues

of the eye are targeted directly than systemic absorption and always give quick results. Various drugs can be selected according to the stage and types of the disease and procedure according to need. Thus, as we can conclude that the dry eye is a condition for which modern medicine has no treatment except for the symptomatic management; the holistic approach of Ayurvedic system of medicine provides overall relief to the patient.

REFERENCES

- Comprehensive Opthalmology by AK Khurana, published by Jaypee brothers medical publishers, New Delhi 18th Edition
- 2. Astanga Hrdayam: English Translation by KR Srikatha Murthy, Volume-3, Chowkhamba Krishna das Academy, Varanasi-221001, Uttara tantra 15/16-17, page no-140
- 3. Srivastava, Shailaja. Sharangadhara Samhita. Reprint Edition Varanasi (India); Chaukhambha Orientalia; 2016; Purvakhanda 7/170; Pg.117.
- 4. Astanga Hrdayam, English Translation by KR Srikatha Murthy, volume -3, Chowkhamba Krishna das Academy, Varanasi-221001, Uttara tantra 16/28, page no-147
- Astanga Hrdayam, English Translation by KR Srikatha Murthy, Volume -3, Chowkhamba Krishna das Academy, Varanasi-221001, Uttara tantra 16/29, page no-147
- 6. Astanga Hrdayam, English Translation by KR Srikatha Murthy, volume -3, Chowkhamba Krishna das Academy, Varanasi-221001, Uttara tantra 16/28-29, page no-147
- 7. Acharya Shukla Vidyadhar, Prof. Tripathi Ravi Dutt. Caraka samhita of Agnivesa (Vol-1), Chaukhamba sanskrit pratishthan, Delhi, Ch.-27/233, pg.no.-412
- 8. Ganga Sahaya Pandeya, Charaka Samhita of Agnivesha with Vidyotini teeka, Varanasi, Chaukhambha Sanskrit Sansthan, 2007: 232

Cite this article as:

Chichili Dhanushya, Ch.Ramadevi, K.Anasuya. Ayurvedic Management of Dry Eye. AYUSHDHARA, 2024;11(2):75-78.

https://doi.org/10.47070/ayushdhara.v11i2.1538

Source of support: Nil, Conflict of interest: None Declared

*Address for correspondence Dr. Chichili Dhanushya

PG Scholar

PG Studies-Shalya, Shalakya, Prasuthi Tantra

Dr. BRKR Government Ayurveda College and Hospital, Erragadda, Hyderabad, Telangana.

Email

chichilidhanushyareddy@gmail.com

Disclaimer: AYUSHDHARA is solely owned by Mahadev Publications - A non-profit publications, dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. AYUSHDHARA cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of AYUSHDHARA editor or editorial board members.