

## ROLE OF AYURVEDA TO PREVENT LIFESTYLE DISORDERS RELATED TO EYE

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## ABSTRACT

With prompt economic development and increasing westernization, man has become his own rival by creating lots of hazards like increased population, inappropriate working patterns, Unmanaged Urbanization, Global Warming and various life style disorders like Diabetes, Hypertension, Thyroid diseases, Obesity etc. In the last few decades, prevalence of lifestyle related diseases has reached the alarming proportions. In this fast and advanced life we rarely pay the attention to the health of the most precious organ- 'Eyes'. *Ayurveda* is an integral and most ancient form of medical stream which is primarily aimed at prevention of disease & promotion of positive health. Its holistic approach towards life Positive lifestyle creates its inevitable significance in the present scenario, Thorough eye care is described Under "*Shalakya Tantra*". These preventive aspects can be practiced in everyday life to prevent lifestyle related eye disorders. *Ayurvedic* perspectives regarding maintenance of eye health are explored in the article.

**KEYWORDS:** *Shalakya, Netratarpana, Trataka, Padabhayanga.*

## INTRODUCTION

Lifestyle diseases characterize those diseases whose occurrence is primary based on the daily habits of people and are a result of an inappropriate relationship of people with their environment.<sup>[1]</sup> The main Factors Contributing to the lifestyle diseases are Bad Food Habits, Physical Inactivity, Wrong Body Posture and Disturbed Biological Clock. According to *ayurveda* 'prajnaparadha'<sup>[2]</sup> causes disharmony of *doshas* in body leads to lifestyle disorders. The *Shalakya Tantra* is one among *Ashtang Ayurveda*, which specializes in the treatment of *Urdhvajatrugata Rogas*.<sup>[3]</sup> In the *Uttaratantra* of *Sushruta Samhita*, First 19 chapters have been devoted to the prevention and cure of eye diseases, which indicates the significance of *Netraroga vinyan*. Eye disorders are much more important than any other physical disability, Since loss of vision leads to the obliteration of the world.

Various causative factors which are mentioned by ancient *Acharyas* thousands of years ago, are presently the most common cause for ocular disorders, some of which with their correlation with modern lifestyle are mentioned below:

1. *Ushnabhitaptasya Jalapraveshat*<sup>[4]</sup>-Sudden change in temperature may damage the functioning of vessels and lead to the weakness of the ocular tissues. It may interrupt with lacrimation,

accommodation, papillary and fixation reflexes. In present era, drinking cold drinks immediately after exposure to hot environment, entering in Air Conditioned area soon after exposure to sun are few reasons for eye disorders.

2. *Swapanaviparyayat*<sup>[4]</sup>-Abnormal sleeping patterns like *diva swapna* and *nisi jagarana*. Suppressing the sleep causes dryness in eyes. In present era night shifts, night parties are few instances of altered sleeping habits. It may cause hyperaemia of conjunctiva, dry eye syndrome, reflux lacrimation, styes.
3. *Klesha*<sup>[4]</sup>: Modern lifestyle has become synonym of stress. Both physical and mental stress may lead to eye disorders. Blepharospasms may occur as a result of increased stress. The spasms cause the eyelid to switch uncontrollably which leads to poor depth perception and decreased vision. Stress may cause dilation of pupil. Dilated pupils allow more light to enter in eyes need to react quicker, potentially leading to light sensitivity, headache.
4. *Vega vinigraha*<sup>[4]</sup>: Suppression of natural urges lead to diseases of eye. Suppression of urges causes *vataprakopa*, leading to weakness of ocular tissues and strain to eyes. Prolonged office duties, class room, meetings and even TV programs are responsible nowadays for suppression of natural urges.

5. **Dhoomanishewanat<sup>[4]</sup>**: Excessive exposure to smoke, noxious gases and other pollutants can cause also result in eye ailments. Smoking, air pollution from vehicles, factories cause *vata* and *pitta dushti* which is a major cause of dry eye, age related macular degeneration, Cataract, macular degeneration, Uveitis.
6. **Sukshmanireekshanat<sup>[4]</sup>**: Watching minute objects for long duration. This causes strain to ciliary muscles, lens and extra-ocular muscles leading to eye strain, headache, blurred vision, watering in eyes and early need of presbyopic addition. In this modern era, excessive use of computers, mobiles, reading on video display screens are some of the major causes. *Ayurveda* is not merely a system of medicine in the conventional sense of curing disease, but it is also a way of life that teaches us to maintain and protect health. The holistic approach of *Ayurveda*, targeted towards physical, psychological, and spiritual well-being makes this science a great preference in lifestyle disorders.

Here we will discuss some of the life style disorders related *Netra*. They are as follow.

1. **Dry Eye Syndrome**: The causative factors for D.E.S are Excessive computer use, Pollution, Auto Immune Disease, Air Conditioners, Dry Environment, Contact Lenses, Aging, Hormonal Disturbances, Contact Lens, Blepharitis, Lasik, Anti Depressant, Specific Preservatives in Topical Medication. Most of the causative factor are related with occupation & life style. With the minor changes in behavioral changes in daily regimens make life free from dry eye syndrome. That's why it can be considered as Occupational life style disorder.
2. **Pterygium**: The Causative Factors are Sun (Ultraviolet Rays), Dry Heat, High Wind, Abundance of Dust. Generally labor worker, factory worker, coolie, farmers come across with all these factors. By using some of the preventive aids, one can prevent the disease to lend. Due to this characteristic features it can be considered as occupational life style disorder.
3. **ARMD**: ARMD is a non-hereditary degeneration involving the Chorio capillaries, bruch's membrane, retinal pigment epithelium and photoreceptors. Most common cause of permanent central visual loss in the elderly. One of the leading cause of blindness in the world. Among the risk factors for ARMD, Age, Smoking, Hypertension, Dietary factors, sun light exposure are main factors. These can be avoided by changing the life style.
4. **Diabetic Retinopathy**: The proliferative diabetic retinopathy develops in more than 50% of cases. It occurs after 25 yrs of onset. As we know that the by doing dietary and behavioral changes, one can minimize the chances of occurring diabetic retinopathy.

## MATERIALS AND METHODS

### Preventive Aspects of Eye related lifestyle disorders in Ayurveda

Ancient Ayurvedic treatises dwelt at length on the care and nurturing of eyes. Vedic science offers many safe, effective and easy techniques for eye care. These primitive approaches can be easily practiced in everyday life to overcome various lifestyle related ocular disorders.

#### *Dincharya* (Daily Regimen)

*Dincharya* for maintaining eye health is stated in ancient texts. *Acharya Shushruta* start daily regimen with *Netraprakshalana* (eye wash) whereas *AcharyaCharak* recommend *Anjana*.

- a. **NETRA PRAKSHALANA<sup>[5]</sup>**: After getting up from bed in the morning ,washing eyes with the *swaras* of *Amalaki* or decoction of *Lodhra*.
- b. **ANJANA<sup>[6]</sup>**: Application of *ayurvedic* formulations along the inner surface of the eyelids. It is best simple procedure to prevent eye diseases.
- c. **ABHAYANGA<sup>[7]</sup>**: Daily application of medicated oil on head especially *Murdha* region, is a preventive measure for eye disorders. It acts as *drishtiprasadan*.
- d. **SHEETODAK SHIRA SNANA<sup>[8]</sup>**: Hot water for head wash may adversely affect hair and eyes .Thus, cold water should be used for head wash.
- e. **NASYA<sup>[9]</sup>**: Instillation of *Ayurvedic* medicines through the nasal route to nourish the organs above clavicle. A person who regularly practices *nasya* can never suffer from diminished vision or loss of vision.
- f. **PADABHAYANGA<sup>[10]</sup>**: Regular massage of feet with oil is indicated as *drishtiprasadan*.
- g. **PADAPRAKSHALAN<sup>[11]</sup>**: Washing and cleaning of foot also acts as *drishtiprasadan*.
- h. **CHATRA DHARANA<sup>[12]</sup>**: Use of umbrella while going out has *Chakshushya* effect as it protects eyes from dust sunshine and heat.
- i. **NETRA-TARPANA**: It is a restorative Ayurvedic treatment that baths the entire eye socket in a pool of lukewarm *ghrita*, this helps to nourish dry eyes, cleanse and soothe itchy eyes, *ghrita* cools the *pitta* and lubricates *Vata dosha*. It is recommended for many ocular disorders. Moreover, it provides nourishment to ocular tissues.

**Ritu Charya**: Due to climatic changes, many changes occur in physiology of eye of eye which may lead to many disease. When one *Ritu* is completed and another one is commenced, the changes in atmosphere trigger off many ailments. For getting rid out of these, *Acharya* has mentioned *RituCharya* under the heading of *Ritu Sandhi*. One should follow these for prevention of *Netra Roga* in various *Ritu*.

#### **Yoga Aasanas for healthy Eyes**

*Trataka* and *Netikriya* help to improve vision and prevent eye disorders. *Shirshasana* and *Suryanamaskara* are another important *asanas*, which are proven to be

very beneficial for eyes. These *asanas* boost circulation to the blood vessels and capillaries, relax the eyes, and over a period of time, are reported to even improve vision.

### Pathya And Apathya Aahara For Healthy Eyes<sup>[13,14]</sup>

#### Pathya

*Lohitashali* (red rice), *yava*(barley),*mugda*(green gram), *vanyakultha* (Dolichosbiflorus), *sita, kumara* (Aleovera), *jeevanti* (Leptadeniareticulata), *punarnava* (Boerhaviaprocumbens), *patola* (Trichosanthesdioca), *karvella* (bitter gourd), *vastuka, flesh of birds, draksha, triphala*, seeds of coriander, *go dugdha* (Cow's Milk), *ajaghrita, takra* (Buttermilk), *peya, vilepi, yusha*.

#### Apathya Aahara

*Amla, Lavana, Katu Rasa, Kshara, Masha, Matsya* (fish), *go dadhi*(curd), *Atimadhyapaan* (excessive alcohol intake), *Tambula*(Piper Betel). Over consumption of too spicy food, junk food, fast food, food which is stored for long duration, and stale food should be avoided.

#### Pathya Vihara

- During work gentle “Palming” for just few minutes can keep many eye ailments away, resulting in relaxed and healthy eyes. This is simply rubbing the palms together for few seconds and gently placing them over eyes, it provides deep rest that blocks outside stimulation.
- Staying awake into the fiery *Pitta* hours of late night leads to over exertion. So, it is better to sleep early and wake up in *Brahmamuhurata* (early morning). This is not only good for eyes but it is also good for entire body and calm mind
- Stress is one of the causes of eye disorders, so it can be overcome through *Dhyana* (meditation).

### DISCUSSION AND RESULT

In the present scenario the lifestyle of people is occupied of hectic schedules. Eye disorders are most likely to occur in certain occupations e.g. prolonged exposure to computer screens, late nightduties etc. From the forgoing it is clear that thousands of years ago, *Ayurvedic* treatises had very broad knowledge regarding Eyes including its disorders & treatment. The teachings and principles which were put forth in ancient times to keep one's health disease free, the exact same philosophy is implicated in modern times. But to lead a luxurious life in the present era, money has got precedence, in running after this precedence man has scarcity of time for personal life. This scarcity of time progresses with negligence of health. *Ayurveda's* simplicity, inclination towards natural modalities and a consideration of *mansikstithi* (psyche) besides other causes of an ailment are possibly the best reason explaining its popularity. Changes should be made in diet, behaviour and life style. While adopting the adjustments one can best follow the principles of *Dinacharya* (daily regimen), *Sadavrutta* (good conduct), *Rasayana* (anti-aging regimen) and *AacharaRasayana*

(good behavioral changes).Prevention is the objective. *Dinacharya, Sadavrutta, AacharaRasayana, Shodana* are the methodologies. Refinements in lifestyle through “*Ayurveda*” can help us to get a new remoulded pair of Eyes. Few modifications in our daily routine can keep us away from common eye problems. *Ayurveda* is a treasure of herbal formulations and other therapeutic measures, but keeping modern life-style in mind, where man has lack of time for himself, measures which can be easily incorporated in routine are discussed here.

### CONCLUSION

For eye disorders, a few simple regimens like *Anjana* (Collyrium), *Nasya* (nasal application of drugs), *Abhyanga* (Oil massage), *Snana* (Bath), *Padabhyanga* (Foot massage with oil) are promoted as effective measures for the prevention of lifestyle related ocular disorders and maintenance of eye health. Various *Yogasanas* and *Shatkriyas* are also said to be beneficial for the health of eyes. A practice of such simple techniques along with appropriate lifestyle modifications along with inclusion of proper diet and exercise can prevent ocular diseases as is seen in this review.

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