

AYURLOG

National Journal of Research in Ayurved Science

http://www.ayurlog.com

April- June: 2021 | Volume: 09th | Issue: 2nd

ISSN: 2320-7329

Physiological study of doshas in dincharya and ritucharya

W.S.R. biological clock

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Abstract:-

According to ayurveda biological clock organizes your entire day as per the Ayurvedic clock. Every day, human body cycles through three doshas-Vata, Pitta and Kapha. One dosha is dominant at one particular time. Thus, tuning the body as per the qualities and timings of doshas can ensure harmony in life. According to Ayurvedic concepts, body is made up of three types of Doshas, viz. Vata, Pitta, Kapha. Balancing between Doshas leads to health whereas the imbalance leads to disease condition. At specific time in each day, or seasons or at given age the balance between Tridosha is in constant flux. Balancing of *Doshas* is possible with 'Dinacharya' and 'Rutucharya', which will lead to syncing of the inner biological clock. Thus, the lifestyle disorders could be managed with changes in the lifestyle with

least medical intervention. Rhythmicity is a ubiquitous phenomenon. Rhythmic temporal patterns are considered and important factor in therapeutics as effective treatments should work in conjunction with body's clocks. Te concept of chronobiology is well evidenced by the cyclic alterations of dosas in the body. The Ayurvedic way of living as well as healing has been developed keeping in mind these biological clocks so as to maintain a balanced state of dosas in the present paper an attempt is made to review the ayurvedic concept of chronobiology chronotherapy. Circadian rhythm is the cyclical 24-hour period of human biological activity. Within the circadian (24-hour) cycle, a person usually sleeps approximately 8 hours and stays awake for 16 hours. During the wakeful hours, mental and physical functions are most active and tissue cell growth increases. During sleep, voluntary muscle activities nearly disappear

and there is a decrease in metabolic rate, respiration, heart rate, body temperature, and blood pressure. In *Ayurveda*, this concept is based on three *Doshas- Vata*, *Pitta*, *Kapha* which predominantly govern our daily routine life. These *Doshas* maintain the integrity of our body by creating, assimilating & diffusing strength. In this article, efforts will be made to correlate the *Doshic* influence which affects the human body.

Keywords:-*Doshas*, *Ayurveda*, *Dinacharya*, *Rutucharya*, chronobiology.

Introduction:-

Circadian rhythm is a roughly 24-hour cycle in the biochemical, physiological, or behavioral processes of living entities on Earth, including plants, animals, fungi and cyanobacteria. The term "circadian" comes from the Latin circa, "around", and Diem or "day", meaning literally dies. "approximately one day". The formal study of biological temporal rhythms such as daily, tidal, weekly, seasonal, and annual rhythms called chronobiology. Concept of Ayurvedic physiology and pathology is based on circadian rhythm of three 'Doshas'. These doshas governs the integrity of our body by engendering, assimilating & diffusing vigor, in the same way as soma, surya & anila – maintain the integrity of the terrestrial world- as told by Sushruta.

The three *doshas* –*Vata*, *Pitta* & *Kapha* follows a circadian rhythm and by this rhythm all the metabolic functions of the body are regulated. Disruption in this rhythm leads to production of various pathological states. Beside daily circadian rhythm these

doshas also follow circannual rhythm i.e. a particular pattern is followed in relation to different season in a year. These doshas follow yearly cycle by the process of their Sanchaya, Prakopa & Shamana regulating the biochemical, physiological or behavioral processes of our body. These doshas maintain our physiological process according to our internal environment & it is withal influenced bv our environment. Beside this changes in doshas is also seen with the change in age e.g. Kapha is said to be dominant Balyaavastha (Pediatric age), Pitta in Madhya-avastha (middle age) and Vata in Vriddhavastha (old age). These doshas become ascendant respectively according to vaya (age), kaal (time) & during digestive process, described Vagbhata. by Ayurvedic chronobiology in contest to circadian rhythm of three Doshas Seasonal variation also affects rhythm of Doshas and îĒ. seen various states Sanchayavastha (Stage of Accumulation), Prakopavastha (Stage of Aggravation) and Prasamavastha (Stage of suppression of vitiated doshas). Cycle or rhythm is maintained by the predominance of these three doshas & affects our balas (strength) which is incremented or decremented during adana & visarga kaal (seasons) as stated by Sushruta and Madhukosha commented on this regulation. Ayurveda has told specific regime of diet and life-style to cope up with this seasonal variations. Such code of conduct related to seasonal variation is known as Ritucharya. Similar code of conduct 'Dincharya' is also given for diurnal variation mentioned above.

E- ISSN: 2320-7329

The concept of chronobiology is inherent in Ayurveda. All the rhythms circadian, circamensual and circannual are recognized dosas. qualitatively both quantitatively. Infect circannual rhythms are seen as extension of circadian rhythms, as susruta says-that in a day and night also one should observe n forenoon the features of spring, in mid-day those of summer, in afternoon those of earl rains, in earl night those of rainy season, in mid night those of autumn and at down those of earl winter. As the orbit of earth around the sun is elliptical, the year has been broadly divided into two-Adana Kala when the earth is nearer to the sun and the period during which the earth is further way from the sun is said to be visarga Kala. The nature of these two semesters are opposite of one another. Northern solstice being hot and dry and solstice is colder with southern predominance of apa mahabhuta. Whole year as been divided into six seasons of two months each. Seasonal changes are a form of stress on organisms, frequently as 'Lack stresses'. Thus are winters organisms are deprived of radiant energy of sun while

water is lacking during northern solstice. Dosas vary cyclically to keep pace with seasonal changes. Altered chronobiology manifested as vitiated dosas because of change of seasons or altered habits does decrease the performance, that's why Ayurveda suggests avoidance of sahasa (stress) and observance of regular habits in the form of dinacarya. Vitiation of dosas in different seasons usually does not rise to diseases. However if the body is already weakened due to some other reason or ritucarya is not followed properly, the vitiated dosas may given rise to various diseases phenomenon very similar in concept to chronopathology. This is well illustrated b cyclical convulsions apasmara (epilepsy). Thus convulsions occur on ever twelfth day in vatic, fortnightly in paittic and monthly in kaphaja apasmara. Circadian rhythms for epileptic seizures have been demonstrated a century back and possible explanations are based on rhythmic variations in concentrations of various neurotransmitters.

Material and methods:-

• Relation of *dosas* and age, body, day & night and stage of digestion:-

| No. | Relations | VATA | PITTA | KAPHA |
|-----|--------------------|------------------------|-------------------|-------------------|
| 1 | Age | Old age | Young age | Childhood |
| 2 | Stage of Digestion | Pakvavastha (end stage | Vidagdavastha | Amavastha |
| | | of digestion) | (mid stage of | (Initial stage of |
| | | | digestion) | digestion) |
| 3 | Night | Ratri ke antim parhr | Ratri ke madhaya | Ratri ke partham |
| | | | parhr | parhr |
| 4 | Day | Prata kala | Madhaya kala | Saya kala |
| 5 | Body | Below umbilicus | Between umbilicus | Above heart |
| | | | & heart | |

• Relation of ritu and bala:-

| Ritu | Bala |
|--------------------|---------------------------------|
| Grisma and varsa | Hina bala (debility) |
| Vasanta and Sarada | Madhyabala (Medium Strength) |
| Sisira and Hemanta | Srestha bala (Maximum strength) |

• Relation of dosas and ritus:-

| Dosa | Sanchaya | Parkopa | Shamn (Pacification) |
|-------|----------------|---------------|----------------------|
| | (Accumulation) | (Aggravation) | |
| Vata | Grisma | Varsa | Sarada |
| Pitta | Varsa | Sarada | Hemanta |
| Kapha | Sisira | Vasanta | Grisma |

Discussion:-

physiological In Ayurveda, all and pathological phenomenons depend on delicate balance of dosas and to precisely regulate dosic biological clocks adjustments are made in the form of dinacarva and ritucarya. The concept of ritucarya implies dietetics, habits and behavioral adjustments to seasonal changes. Ritucarya aims at health maintenance in all seasons through a balanced state of dosas i.e. dosas samya. A balanced (and well adjusted) diet is the prerequisites for maintaining the optimum state of dosas. Dietary substances are chosen on the basis of complementarily, i.e dietary substance with properties similar to vitiated dosas are avoided while choosing the contrary.

Conclusion:-

On the substructure of above mentioned facts it could be concluded that three *doshas* govern our biological clock. If they are in their mundane state circadian rhythm of body works congruously, any impairment in

these *doshas* can lead to pathology. These *doshas* maintain our circadian body physiology i.e. early morning awaking, hunger, thirst, body vigor, slumber etc. Thus it can be concluded that everybody has their own circadian rhythm or biological clock according which we work and any derangement in the homeostasis of *doshas* can alter this biological rhythm.

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Conflict of Interest: Non

Source of funding: Nil

E- ISSN: 2320-7329

Cite this article:

Saini, M. (2021). dr. Physiological study of doshas in dincharya and ritucharya w.s.r biological clock.

Ayurlog: National Journal of Research in Ayurved Science, 9(02).

https://doi.org/10.52482/ayurlog.v9i02.816

Ayurlog: National Journal of Research in Ayurved Science- 2021; (09) (02):01-05

ARCH
Ayurved Research Copying House

5 | April-June: 2021 | Volume: 09th | Issue: 2nd