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Anidra And Its Management Through Ayurveda : A Review

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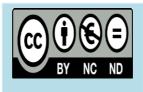
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ABSTRACT: -

Nidra (sleep) is considered as one among three *Upastambhas* (Pillars) of human life, others are *Ahar* (diet) and *Brahmacarya* (celibacy). Sufficient quantity and good quality of sleep (sound sleep) gives happiness, nourishment, strength, virility, knowledge and good quality of life. When there is difficulty in initiating or maintaining sleep or both and it may be due to inadequate quality or quantity of sleep, is called *Anidra* (Insomnia). The problem of insomnia increasing day by day due to stressful life, incompatible diet and faulty life style. People over the age of sixty-five years are affected more often than younger people. *Anidra* (Insomnia) associated with anxiety and stress may deteriorate memory and mental power. Physiological disturbances like cardiac disease, diabetes, blood pressure and psychological disturbances may be triggered with *Anidra*. *Acharyas* mentioned causative factors (that increase *Vata* and *Pitta dosha*), clinical features and different therapeutic approaches for the management of *Anidra* (Insomnia). Based on the *Ayurvedic* view the single herbs like *Aswagandha* (*Withania somnifera*), *Jatamansi* (*Nardostachys jatamansi*) etc., different compound formulations, *Shodhan* (Purification) therapies including the *Pathya* (wholesome) and *Apathya* (unwholesome) have been discussed in this article.

Key words: Ayurveda, Anidra, Trayaupastambha, Sankhapushpi.



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INTRODUCTION

Ayurveda considered Ahar (food), Nidra (sleep) and Brahmacharya are Traya Upastambha (3 sub pillars) that is the three essential supports for achieving a healthy physical and mental states of life. Nidra (Sleep) is one of the three essential supports for the health. As per Acharya Charaka when Mana (Heart/Mind) and Indrivas (Senses) getting tired and detached themselves from their objects or not able to perceive any objects, then the individual sleeps. ⁽¹⁾Insomnia is a sleep disorder also known as Sleeplessness in which people have trouble to sleep. The patient of Insomnia might have the problem of falling asleep and staying asleep as long as they want. Insomnia is typically followed by day time sleepiness, low energy, irritability and a depressed mood. Insomnia is one of the most common problem now adays and affecting a large number of populations. About 6% of people have Insomnia that is not due to another problem and lasts for more than a month ⁽²⁾. Mostly the people over the age of 65 years suffer from Insomnia than younger people. Females are more often affected than males. Heritability estimates of Insomnia vary between 38% in males to 59% in females ⁽²⁾. The complications may occur like Psychological disorders (depression, anxiety disorders); risk of high blood pressure, heart disease diabetes and poor immune system function.⁽²⁾

As per Acharya Sushruta, loss of sleep is caused by aggravation of Anila (Vata) and Pitta, exhaustion of the mind, loss of Dhatus(tissues) and injury to the body. ⁽³⁾ Anidra /Nidranasha (Insomnia) may occur as a result of imbalance Tarpak Kapha, Sadhak Pitta and Pran Vayu. ⁽⁴⁾

MATERIALS AND METHODS:

As the present study is a review article, different

Ayurvedic texts, published research papers and available materials on internet have been reviewed for this article.

Physiology of *Nidra* (Sleep):

Acharya Charaka considered that when the Mana (Heart/Mind) and Indriyas (Senses) get tired and detached themselves from their objects, then the individuals sleep. Gyanendriyas and Karmendriyas are continuously attached with Mana for perceive any kind of objects. When the Gyanendriyas (wisdom or knowing senses) and Karmendriyas (means of expression, action or senses) get tired by various kinds of activities then the Mana gets tired also. In this condition people falls into sleep for resting their Indriyas (Senses) and Mind also. Acharya Charaka mentioned the following lines-"Yada tu manasi klante karmatmana klamaanwita. Bishayebhyo nibartante tada swapiti manaba".

According to Acharya Sushruta "Nidra sleshmatamo bhava". It means Nidra (Sleep) produced by predominance of Sleshma (mucous) and Tamo guna. ⁽⁵⁾ Hridaya (Heart) is the seat of Chetana in living beings. ⁽⁶⁾ When Hridaya (Heart) is invaded by tamo guna, persons get sleep; tamo guna is the cause for sleep and satva guna is the cause for waking; overall "Swabhaba (nature)" is the potent cause for sleeping. ⁽⁶⁾

Sleep manifests naturally both during day and night in the persons have predominance of *tamo guna*; in those have predominance of *rajo guna* sleep occurs at any time without any reason; and the persons with predominance of *satva guna* it occurs at midnight.

Types of *Nidra*(Sleep)⁽⁸⁾:

- As per *Acharya Charaka Nidra* (Sleep) is of the following types-
- 1. *Tamobhava* caused by *tamas*

- 2. *Sleshma samudbhava* caused by (vitiated) *kapha*
- 3. *Manah sarira shrama sambhava* due to mental and physical exhaustion
- 4. *Aagantuki nidra* indicative of bad prognosis leading to imminent death
- 5. *Vyadhi-anuvartini* cause as a complication of other disease like *sannipata jwar* etc.
- 6. *Ratri swabhava prabhava* cause by the very nature of night or physiological sleep. It is also known as "*Bhutadhatri nidra*".
- Acharya Sushruta mentioned three type of Nidra⁽⁹⁾ –
- Tamasi nidra It can be compared with the state of coma, which generally appears before death. Increased tamas and aggravated Kapha dosha are the factors responsible for this type of Nidra (Sleep) and can be compared with Sanyasa (Coma) described by acharya Charaka where the absolute loss of consciousness is seen prior to death.
- 2. Swabhaviki nidra It is physiological stage and generally takes place at night. It nourishes and makes us free from different type of fatigue and is helpful asset for everybody. The time of this type of sleep may differ according to *saririk* and *manasik prakriti* of an individual.
- 3. Vaikariki nidra It is a stage of sleeplessness due to decrease kapha dosha or increased vata dosha, or as a complication of physical as well as mental disorder. The advantages of sleep (nourishment, freshness etc.) are not available in this type of sleep.

Nidana (Causative factors) of *Anidra* (Insomnia)

A. Aharaja nidan (dietetic cause) -

- 1. Ruksha anna pana (Dry Food-Drinks)
- 2. Laghu guna yukta ahara (Light Food-Drinks)
- 3. Excessive consumption of tea, caffeine, alcohol etc.
- B. Viharaja nidana (Behavioral factors) -
- 1. Excessive smoking
- 2. Excessive fasting

- 3. Excessive physical activities e.g.- exercise, sexual activities
- 4. A Sleep in uncomfortable bed and environment
- Excessive indulgence at any work (physical or mental) causes mental deviation from sleep;
 e.g.- excessive watching television; working long time in computer or excessive operating any gazette like mobile phone, video games etc.
- 6. The time in which any individual is not habituated to sleep.
- C. Manasik nidana / Emotional factors –
- 1. Emotional disturbances like fear, excessive thoughts, anger are the cause of increasing *Vata* and *Pitta dosha* leads to *Anidra* (Insomnia).
- 2. Acharya Sushruta said "Mana Santapa", any kind of mental exhaustion.
- 3. Predominance of *Sattva Guna* of *Mana* and suppression of *Tamo guna* of *Mana* cause *Anidra* (Insomnia).
- D. Chikitsa apacharaja nidan / Improper treatment modalities –
- 1. Excessive indulgence of therapies like Vamana karma (Emesis), Virechana karma (Purgation), Nasya karma (Nasal therapy) and Raktamokshana karma (Bloodletting) increase Vata dosha that leads to Anidra (Insomnia).
- E. Others cause of Anidra –
- Prakriti (constitution) ⁽¹¹⁾ Deha prakriti (physical constitution) is of seven types- Vataja, Pittaja, Kaphaja, Vata-pittaja, Pitta-kaphaja, Vata-kaphaja and Sannipatik Prakriti. As per Acharya Sushruta "Prajagaruka" (less sleep) is a characteristic of Vataja prakriti. The persons of vata and pitta prakriti often suffers from Insomnia.
- 2. Age People over the age of sixty years at *"Vriddhavastha"* often suffer from sleeping disorder. *Dhatu kshaya* (Depletion of tissues) and *Vata vriddhi* are the main cause of it.
- Vikara / Disease Anidra/Insomnia may occur as a complication or symptom of another disease. When any physical or mental pathological condition becomes chronic, lack of sleep is a chief complain due to pain and discomfort. E.g. arthritis, depression etc.

- Doshic involvement⁽¹²⁾ Vata, pitta, kapha are the three Sharirik dosha. According to Acharya Sushruta vata vriddhi leads to Nidra-nasha (loss of sleep), pitta vriddhi leads to "Alpa-nidra" (disturbed sleep) and decrease kapha dosha develop "Prajagaran" (less sleep).
- 5. *Abhighata*/ Injury Any kind of external injury cause loss of sleep due to vitiation of *vata dosha* and pain.
- Kshaya According to Acharya Sushruta kshaya (loss of tissue) is a cause of Anidra (Insomnia). It occurs due to ageing, chronic disease or any injury to the body.

Clinical features of *Anidra* (Insomnia) ⁽¹³⁾:

Loss of sleep is the cardinal feature of *Anidra* (Insomnia). As per *Astanga Hridaya* the symptoms of loss of sleep are-

- Angamarda (Body ache)
- *Shiro-gaurava* (Heaviness of head)
- Jrimbha (Yawning)
- Jadyata (Lassitude)
- *Glani* (Exhaustion even without strain)
- Bhram (Giddiness)
- Apakti (Indigestion)
- Tandra (Stupor)
- Disease of Vata dosha origin

Management of Anidra/Insomnia:

- 1. *Nidana Parivarjana* (avoiding the Cause) One should avoid the above discussed causative factors first and should rule out if there is any other pathological condition like Neurological disorders or depression which may cause loss of sleep also and treatment should start accordingly.
- Sodhana Chikitsa^(14,15,16) The following Sodhana Chikitsa (Purification process) are applied for the treatment of Anidra (Insomnia).
- Abhyanga (oil massage)
- Udvartana (rubbing medicated paste and powder)
- Shirodhara by medicated oil
- *Karnapurana* (Ayurvedic Ear oiling)
- Akshitarpana (Eye treatment)

- Application of *"Pichu* (Spine Therapy)" on head by medicated oil
- Samana chikitsa (Pacification) ⁽¹⁷⁾ It is a type of palliative treatment by medication. The treatment principles of Anidra (Insomnia) are Vatahara chikitsa; Madhura rasa prayoga (use of sweet essence food articles) ; Guruguna ausadha prayoga (medicine). In pitta nimittaja mridu virechana (Soft purgation) is done.
- Single herbs: Aswagandha (Withania somnifera), Jatamansi (Nardostachys jatamansi), Bramhi (Bacopa monnieri), Mandukparni (Centella asiatica), Shankhapushpi (Convolvulus pluricaulis).
- Kashaya Kalpana (Decoction form): Drakshadi kasayam, Vidaryadi kasayam.

Dose – 60ml, twice daily, half an hour before food.

 Churna Kalpana (Powder form): Jatamansi churna, Aswagandha churna, Tagara mula churna

Dose – 5 to 10gms at bed time with milk after food [Note – The dose of *Tagara mula churna* (Root powder) is 5gms twice daily with milk after food, over dosage of *Tagara* (*Valeriana Wallichii*) can cause vomiting, giddiness hence it should be administered in low dosage]

 Vati Kalpana (Tablet form): Manasmitra vatakam, Bramhi vati, Sarpagandha gulika.

Dose – 1-2 tablets twice daily after food. [According to *Roga bala* and *Rogi bala*]

[Though Sarpagandha have the properties of ruksha guna (Dry), ushna virya (hot potency), katu vipaka (Pungent) and tikta rasa (bitter) it indicates in Anidra (Insomnia), Bhrama (Confusion), Unmada (Insanity), Apasmara (Epilepsy)etc. ⁽¹⁸⁾]

 Lehya Kalpana (Therapeutic Jams): Aswagandha lehyam, Dhatukalpa lehyam.

Dose - 5 to 10gms twice daily after food.

Ghrita kalpana: Bramhi ghrita, Kalyanaka ghrita.

Dose - 5 to 10ml at bed time with milk after food.

• Taila kalpana (Oil form- Internal): Kshirabala taila.

Dose - 10ml at bed time with milk after food.

 Arista/Asava Kalpana (fermented product): Sarasvatarista, Ahiphenasava.

ainyas (Do S) of Antara (Insontina)		
Pathya ahara (Beneficial diet)	Pathya vihara (Beneficial lifestyle)	
 Intake of madhura, snigdha guna yukta ahara (Sweet, Unctuousness food) shali dhanya (Variety of rice) with dadhi (curd), godhuma (wheat), pisthanna (flour of grains). Soup of domestic marshy and aquatic animals, soup of 'viskira' birds. Dugdha (milk) specially buffalo milk (mahisha kshiram swapna janananam), Madya (alcohol). 	 Shiro abhayanga (oil massage on scalp), Pada abhyanga (foot massage), Sanvahan (gently pressing the body). Manah sukham (psychic pleasure) and practicing yoga and meditation. Pleasant music and smell of scents of one's own taste. Snan (Bath) Comfortable bed and environment. Maintain a ragular alaan (waka up 	
4. Food prepared from sugarcane juice.	6. Maintain a regular sleep / wake up schedule.	
5. Draksha (grapes), sita (sugar).	schedule.	

Pathya (Do's) and Apathyas (Don'ts) for Anidra (Insomnia)^(19,20,21) Pathyas (Do's) of Anidra (Insomnia)

Apathyas (Don'ts) of Anidra (Insomnia)

Apathya ahara (Avoidable diet)	Apathya vihara (Avoidable lifestyle)
1. Avoid excessive <i>rukshya</i> (rough), <i>laghu</i> (light), <i>katu</i> (pungent), <i>tikshna guna</i> (Sharp)yukta ahara.	 Excessive physical activities and stressful conditions. Irregular sleep habits. Day sleep.
2. Excessive consumption of tea, caffeine, alcohol.	 Excessive use of any gadget like – mobile phone, laptop, video games and watching television.

Yogic practices⁽²²⁾ – The following yogic practices are beneficial for insomnia

Pranayama – Anuloma-viloma, Ujjai, Bhramari, Cooling

Asana – Suryanamaskar, Tadasana, Matsyasana, Padmasana, Bhujangasana, Paschimottanasana and Shavasana. [These should be performed only under the guidance of qualified yoga therapist] Effect of proper and improper sleep ⁽²³⁾:

Effect of proper sleep	Effect of improper sleep
1. Sukha (happiness)	1. Dukha (misery)
2. Pusti (nourishment)	2. <i>Karsha</i> (emaciation)
3. Bala (strength)	3. <i>Abala</i> (weakness)
4. Vrishata (virility)	4. <i>Klibata</i> (sterility)
5. Gyana (knowledge)	5. Agyana (ignorance)
6. Life	6. Death

Dose – 20ml twice daily after food.

• Shiro pichu (External application): Kshirabala taila, Narayana taila, Bramhi taila.

DISCUSSION:

Samhitas says that Nidra (sleep) is considered as one among the three Upastambhas (3 sub-pillars) of the human body; the others are 'Ahara (Diet)' and 'Brahmacarya(Celibacy)'. Mental and physical exertion bring about inactivity of the mind resulting in the dissociation of the mind and the sense organs from their objects which is responsible for sleep. But if there is excessive exertion, this may cause vitiation of Vata dosha leading to sleeplessness. Thus, even though, exertion is a causative factor for sleep, excessive exertion is responsible for the aggravation of Vata dosha which causes sleeplessness. The others causative factors discussed earlier like emotional disturbances, excessive thoughts, excessive smoking, chronic diseases etc. and increase Vata and Pitta dosha leads to Anidra (Insomnia). Clinical features, management and effect of proper and improper sleep are discussed in this article. Aswagandha (Withania somnifera), Jatamansi (Nardostachys jatama<mark>nsi)</mark>, **Bramhi** (Bacopa *monnieri*), Mandukparni (Centella asiatica), Shankhapushpi (Convolvulus pluricaulis) and the compound formulation like Manasmitra vatakam and the therapies like Karnapuran (Ear pulling), Akshitarpan (Eye treatment) are very beneficial for management of Anidra (Insomnia).

Sleep indulged at improper time, in excess or not at all destroys health and happiness. Keeping awake at nights (avoiding sleep) is produce dryness inside the body, sleeping during day time is unctuous (causes moistness inside) and taking a nap sitting comfortably (during day) is neither dry nor unctuous.⁽²⁴⁾

CONCLUSION:

Improper sleep disturbs the normal physiological and psychological activities and produce complications like hypertension, anxiety disorders etc. Sleepless persons are always unhappy. Without proper sleep one's mind becomes dull. The brain does not get sufficient rest and loss of sleep involves such an expenditure of energy through the brain as

to constitute a serious drain upon the nervous system. One should sleep at the proper time at nights daily as much as desirable and become habituated to it. If someone has kept awake at night due to nonhabituation (not accustomed to), should sleep for half that period, the next morning without taking any food. ⁽²⁵⁾ Like proper diet, proper sleep is also essential for the maintenance of healthy living because obesity and emaciation are specially conditioned by proper and improper sleep and diet.⁽²⁶⁾

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