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CLINICAL STUDY OF THE EFFECT OF NASYA KARMA IN THE MANAGEMENT OF CERVICAL SPONDYLOSIS WITH SPECIAL REFERENCE TO MANYASTAMBHA

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ABSTRACT

Human life has become more stressful these days. Sedentary lifestyle, occupational factors are playing a large role in increased prevalence of the common degenerative disorder of Cervical Spine i.e. Cervical Spondylosis. In Ayurvedic view, it can be correlated with *Manyastambha which* is a *VatajaNanatmakaVikara*. Degeneration means *Apatarpana* in *Ayurveda*. It needs to be treated with *Brimhana* Therapy. And *UrdhvajatrugataVyadhis* are best treated with *Nasya* according to *Ayurveda*. So, taking all these factors into consideration, *BrimhanaNasya Karma* with *KsheerabalaTaila* was tried to alleviate the signs and symptoms of patients having Cervical Spondylosis. Assessment was done with regard to pain in neck and shoulder, tingling and numbness in hands and headache alongwith various angles of rotation of neck. The data was collected before and after administration of *Nasya karma*. The 15 days trial was proved to be significantly efficacious in reducing signs and symptoms of cervical spondylosis.

Keywords: Cervical Spondylosis, *Manyastambha, VatajaNanatmakaVikara, Apatarpana, BrimhanaNasya, Ksheerabalataila*.

INTRODUCTION

In these days, Cervical spondylosis is one of the most common disorders of cervical spine. It is characterized by severe pain in neck & shoulders, rigid neck, burning & tingling sensation at upper limb & sometimes occipital headache¹. Though it is a degenerative osteoarthritis of joints between the cervical vertebra and is generally associated with ageing, in India, the younger patients of cervical spondylosis are increasing day by day.² So, Along with ageing, the associated risk factors in young patients are Sedentary lifestyle, poor posture & occupational factors such as Computer keyboarding, cell phone texting etc. played a large role in increased prevalence of neck pain in past 20 years.³ Cervical spondylosis affects quality life of a person. A cohort study signifies that Cervical Spondylosis myelopathy may produce anxiety and depression. ⁴According to modern science, treatment is mostly conservative. It consists oral analgesics & physiotherapy. In some cases, cervical collar is advised. Surgery is rarely done.⁵According to Ayurvedic Samhitas, Cervical Spondylosis resembles *Manyastambha* (rigid neck) which is a Vataj Nanatmaka disorder (disorder of Vata). Manyastambh is a condition where the vitiated *Vata* lodges in the neck region due to wrong sleeping positions, use of large pillows, Diwaswapa, continuously watching downwards or upwards for a longer period of time causing over stretching of Neck and which leads to Shosha (desiccation) of muscles of the neck. Vyaana Vayu is responsible for the movements of the body.⁶ Neck is a body part above clavicle so in Ayurveda literature it comes under Urdhvajatrgata Vikara (diseases above neck region). Nasya karma (Nasal Medication) is widely employed in Ayurveda. It is the only therapeutic measure among Panchakarma which is instilled into the nostrils and has a direct access to head. In all the Urdhvajatrugata Vikaras, all the Acharys unanimously highlighted Nasya Karma to be effective. Acharya Charaka *Urdhvajatrugatavikara* mentions all specially Vatajavikara like Manyastambha etc. are to be treated with Nasya Karma.⁷ While Acharya Vagbhata appreciates Nasva as useful in keeping Greeva and Skandha (Neck & shoulder) healthy⁸. In Cervical Spondylosis, degeneration can be implied as Apatarpana (emaciation) according to Ayurveda. Hence condition of Cervical spondylosis which is degenerative one need *Brimhana* (nourishing) therapy.9 Vagbhata specifically mentioned Brimhana Nasya being useful in treating Vataja Shoola (pain) like conditions.¹⁰ Keeping all these factors in mind, it was hypothesized that Brimhana Nasva Karma may prove effective in relieving symptoms of Manyastambha like 'Ruk' (pain) and 'Stambha' (rigidity) in the patients of Cervical spondylosis. So, the present study entitled "Clinical study of the effect of Nasya Karma in the management of Cervical spondylosis with special reference to Manyastambha" was undertaken.

Material & Methods

Study Design- The study is single group clinical trial., Total 22 patients were registered in the study. There were 2 dropped patients who discontinued the treatment.

Source of Data- 20 diagnosed patients of Cervical Spondylosis coming under inclusion criteria and approaching the OPD of SVERDCT's *Swami Vivekanand Ayurved* Medical College, *Shrigonda, Ahmednagar* were selected for the study irrespective of age, Sex, Religion and Socio-economic status.

Inclusion Criteria -Patients having signs and symptoms of *Manyastambha.*, Patients who are willing for *Nasya Karma*.

Exclusion Criteria

IVDP of Cervical spine, Ankylosing spondylosis, Nasal polyps, *Urdhvajatrugata Raktapitta* (bleeding through upper orifices of body), *Nava Peenasa* (initial stage of rhinitis) and all the *Nasya Anarha* (contraindications of Nasal Medication) conditions., Unwilling patients for *Nasyakarma*.

Method of Collection of Data- A special proforma containing details necessary for the study was prepared. Investigations were carried out as and when necessary.

Duration of the Therapy – 15 days

Intervention- *Nasya Karma*-The patients were subjected to the following protocol of *Nasya Karma* which was adopted as per *Acharya Vagbhata* mentioned in *Nasyavidhi*¹¹–

- Nasya Poorva Karma (Preparatory measures for Nasya) -Urdhvajatru Snehabhyanga (Massage of Nead, Neck and Face) – with Dhanvantara taila¹² for 15 mins. Which was immediately followed by Urdhvajatru Svedana (Hot fomentation of head, Neck and Face) – with Nadisweda (fomentation with steam through a tube) of Nirgundi Kwatha (Decoction) for 5 mins.
- Nasya Pradhana Karma (Main Procedure -Nasya) - For Brimhana effect, Ksheerabalataila was selected from Sahastrayogam¹³.Madhyam Matra of Marsha Nasya i.e. 8 drops were selected.¹¹8 drops of lukewarm Ksheerabalatailam was instilled in each nostril of the patient.
- 3. *Nasya Pashchat Karma* (Post-operative **Procedure**) Patients were allowed to spit the accumulated remnants of *Nasya Taila* if some., *Pashcat Svedana* of *Urdhvajatru* with *Nirgundi Kwatha Nadi Sweda* for 5 mins., *Kavala Dharana* (gargling) with lukewarm water was performed for 5 mins in each patient.

Criteria for Assessment-The assessment criteria were divided into two categories as – Subjective Criteria and Objective Criteria.

A. Subjective Criteria –

1. Pain in Neck and Shoulder -

- 0- No pain in Neck and Shoulder
- 1- Mild pain in Neck and Shoulder
- 2- Moderate pain in Neck and Shoulder
- 3- Severe pain in Neck and Shoulder

2. Tingling and numbness in hands -

- 0- No tingling and numbress in hands
- 1- Mild tingling and numbress in hands
- 2- Moderate tingling and numbress in hands
- 3- Severe tingling and numbress in hands

3. Headache –

- 0- No headache
- 1- Mild headache
- 2- Moderate headache
- 3- Severe headache

B. Objective Criteria for Neck stiffness -

1. Angle of Flexion, 2. Angle of Extension, 3. Angle of Rotation, 4. Angle of lateral rotation (left side)

5. Angle of lateral rotation (right side)

Before commencing treatment, all the assessment criteria were recorded and the data was termed as Before Treatment. (B.T.). While the data recorded of all the assessment criteria after completion of therapy was termed as After Treatment. (A.T.)

Data Analysis- The data collected was rendered to Master Chart and tables were constructed. For subjective data, "Wilcoxon's signed Rank Test" was applied whereas "Paired t - Test" was applied for the analysis of Objective data.

Observation and Results -

Table 1: showing Age wise and Sexwise Distribution of 20 patients of Cervical spondylosis

Age	Male	Female	Total	
21 – 30 years	1	0	01	
31 – 40 years	3	2	05	
41 – 50 years	3	2	05	
51 – 60 years	4	2	06	
61 – 70 years	0	2	02	
71 – 80 years	1	0	01	

The study shown that the maximum patients were Male i.e. 60%., Most of the patients (80%) were from middle age group – 31 to 60 years of age.

Symptom	B.T. Mean	A.T.Mean	S.D.	Z value	P value
Pain in Neck and Shoulder	1.75	0.65	19.33	3.51	P < 0.05
Tingling and Numbness in hands	1.56	0.92	17.60	3.20	P < 0.05
Headache	1.62	0.76	18.30	3.38	P < 0.05

Table 2: Showing Results of 'Wilcoxon Signed Rank Test' for the symptom Neck and Shoulder pain, Tingling and numbress in hands and Headache

It is clear from above table that all the signs and symptoms of Cervical Spondylosis viz. Pain in Neck and Shoulder, Tingling and numbress in hands and Headache showed significant improvement with p < 0.05.

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	Mean		Diff. Of Mean \pm SD	SEd	t value	p value	
	BT	AT					
Angle of Flexion	152.6	160.20	7.8 ± 9.68	1.46	4.16	p < 0.001	
Angle of Extension	135.10	141.20	6.1 ± 10.10	1.76	3.96	p < 0.001	
Angle of Lat. Extension (left)	131.50	137.50	6.0 ± 8.80	1.34	4.47	p < 0.001	
Angle of Lat. Extension (Right)	133.20	140.20	7.0 ± 9.01	1.60	4.42	p < 0.001	

Table 3: showing Results of 'Paired t Test' for the symptom Neck Stiffness

This table clearly shows that Neck stiffness decreases effectively in every angle of rotation of neck with the help of *Ksheerabala Taila Nasya Karma*. The angles of movements of neck shown improvement with p < 0.001 which is highly significant.

DISCUSSION

The study shows that number of male patients was more probably because of the etiological factors of cervical discomfort like excessive usage of vehicles on an uneven road, sedentary lifestyle, computer work, etc. are more common in them. Most of the patients were found from middle age group. It can be seen that proper Snehana and Swedana karma is very essential part of Nasva Karma. Snehabhvanga with Dhanwantara Taila¹² helped in relieving all Vataj symptoms which is mentioned by Sahastrayogam. While Swedana helped in relieving Stambha of neck i.e. Neck Rigidity.¹⁴KsheerabalaTaila itself has a Brimhana Property. In Sahastravogam, Ksheerabala Taila¹² is said to be useful for Nasya Karma in 80 types of Vatavyadhis. So, it probably helped in decreasing the degenerative changes in Cervical Spondylosis along with Vatashamamak (alleviation of Vata) and Brimhana effect. The overall study shows significant results in subjective criteria viz. Neck and shoulder pain, tingling and numbress in hands and headache with p < 0.05. Objective criteria i.e. various angles of rotation of neck also shown significant improvement with p < 0.001 with proper Snehabhyanga, Swedana and Nasya Karma. Thus, it can be said that present study entitled "Clinical study of the effect of *NasyaKarma* in the management of Cervical spondylosis with special reference to *Manyastambha*" shown encouraging results.

CONCLUSION

Cervical spondylosis or *Manyastambha* has increasing prevalence day by day which affects quality of life. *Nasya Karma* along with preoperative and post operative procedures exhibit better results including significant reduction in signs and symptoms. The therapy did not show any side effect. It is a relatively cost-effective therapy than other available therapies for Cervical Spondylosis.

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Case Study

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A CASE STUDY ON DADRU W. S. R. TO TINEA

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ABSTRACT

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Revised on 05 Dec. 2020, Accepted on 25 Dec. 2020 DOI: 10.20959/wjpr20211-19521

*Corresponding Author Dr. Hirekar S. N. D9, Esmeralde, Kanchanwadi Aurangabad. One of the most common skin problem in today's era is the Dadru the Dadru is the state characterised by Kandu i'm looking at the atasi Pushpa, vat pidik, tambravarna varna, visarpani pidit, dirgha pratan scaling, vasiculation etc. first step towards any treatment is nidan parivargen, pachan, virechan, as treatment this treatment gave up very effective results in patients.

KEYWORDS: Nidan Pariwarjan, Pachan, Virechan.

INTRODUCTION

Skin is the protective organ of the body. It reflects the health of an individual.^[1] Skin and its appendages are the most visible part of our body & any skin disease will create an emotional concern for an individual at any age. Common psychological problems associated with skin diseases include feelings of stress, anxiety, anger, depression, shame, social isolation, low self- esteem & embarrassment. In recent years, there has been a considerable increase in the incidence of skin problems in tropical & developing countries like India.

There is a wide and extensive description of skin diseases in Ayurveda. Under the heading of Kustha roga, different skin related disorders have been explained in Ayurveda Samhitas. It is also considered as one of the eight mahagada (dreadful diseases).^[2] The term 'Kushtha' which means that it comes out from the inner part to the outer part and destroys the organs of the body, therefore it is called Kustha.^[3] There are eighteen types of kustha roga which are classified in to Maha kustha (major skin ailments) and kshudra kustha (minor skin ailments). Dadru is one of the commonly occurring skin diseases Acharya Charak included Dadru in Kshudrakushta. On other hand, Acharya Sushruta & Acharya Vagbhata included it in Mahakushta.^[4,5]

Kushta is a Tridoshaja Vydhi where Rasa, Rakta, Mamsadhatupradoshaja vikaras 6 & Ambu

are the main Dushya's. According to Acharya Sushruta Dadru is Kapha Pradhanan according to Charak and Vagbhata it is Pitta-Kapha dominance.

 सकण्डुरागपिडकदद्रुमण्डलमुदगम्। (च.चि.७/२३)
 दीर्घप्रतानादूर्वावदतसीकुसुमच्छविः। उत्सन्नमण्डलादद्रुःकण्डुमत्यनुषङिंगणी। (वा.नि.१४/२४)

In Charak Samhita the clinical description of Dadrukushta is Udagatamandala (Raised Patch) associated with Kandu (Itching), Raga (Redness), Pidaka (Pimples)7 Charaka described Dadru in 4th layer of twak. In Sushruta black colour & deep seated dadru is called Mahakushta and which is not blackish in colour & superficially seated reddish in colour & circular lesion dadru is categorised as Kshudrakushta. Sushruta mentioned these type of reddish colour circular lesion as Visarpa Kushta because it spreads more8. In Dadru Varna of Twak looks like as Atasi flower which are spreading in nature & are associated with Pidaka(Pimples). Skin reflects emotion physical appearance of a person determines our physiological as well as psychological state. The skin is our covering of the body and skin is largest organ of the integumentary system. Nowadays skin disease are very common to patients experience physical emotional social socio-economic embarrassment in society.

All the skin problems are included under the heading of kustha. This Kustha is further classified into Maha Kustha and Ksudrakusta Dadru is the one of Ksudrakusta. According to Charak but according to Sushruta Dadru is one of the Maha Kustha.

All type of Kustha to have been considered as Raktaj vikar, Kapha - pittahar is the prominently present in the Dadru. Dhruv is a superficial fungal infection. Dadru affect up to 15% of world population.

According to ayurveda Nidaan a Parivarjan Shodhan and shaman are the treatment preferred for the dadru.

AIM

1. To study the Dadru w.s.r to the taenia.

OBJECTIVE

- 1. Tostudy the Dadru.
- 2. To study the dadru as per modern science.
- 3. Tostudy the etiopathogenesis of the dadru as per Ayurveda concept

Case report

Name of patient XYZ Desh: Sadharan Gender: Female Religion: Hindu Age: 38yrs Marital status: Married Occupation: Farmer Wt. 90 kg

Chief complaint

- 1. Kandu
- 2. Raga
- 3. Atasi pushpawat pidika (Kapal pradesh) Angulimadrya
- 4. Tambravarna Pidika
- 5. Visarpani Pidika

The patient was asymptomatic before years. After that patient started complaining of Kandu, Raga, Atasi Pushpawat pidaka, Tamara Varna Pidaka visarpani pidika Etc. she was taking treatment from the general practitioners like local steroids for external application and antifungal antihistaminic drugs oral medicines. after that after that patient get relief but didn't get satisfied with the result so for further treatment he come into Ayurvedic Hospital.

Past history illness: No Family history: No Aahar: Non Vegetarian Vyasan: No Nidra: Khandit Prakurti: Vat pitta Nadi: 78/min BP: 110/80 mm of Hg Jivha: Sama Agni: Manda Mala: 01 time/day Mutra: 5-6 times/day Sparsha: Drusksha

Druk: Swetabh

Skin examination Kandu: Present Stava: Present Pidika: Present

Rukahata: Present

Routine blood investigation like (CBC, ESR) was done before treatment and found normal. After taking proper history virechan was planned followed by shamans.

MATERIAL AND METHODOLOGY

- 1. Nidan Pariwarjan
- 2. Aahar: laghu, Rukshya, Abhishandi.
- 3. Pachan: Musta, churna 5 GM, Bhojan mhadhya

Shodhan

Sneh pan: 1 St day - 30 ml 2 nd day - 60 ml

3rd day - 90 ml

4 th day - 120 ml

Samyak snigdha lakshana appears on 4 th day

Then snehan Sweden for 3 day (Til tail bashp. Swede) Pradhan karma - abhyadi Modak 2 tablet early in the morning Anupan sheet jal

Patient had 7 Vegas

Then Samar Jan krama for 5 day

Shaman: Arogyavardhini

Khadiradi vati skin Oil Nimba tail

DISCUSSION

Dadru is kshudra kustha according to charaka under Rakta Pradosh Vikar. It is a chronic condition while explaining the treatment of kustha Acharya Charak told if Laxana are severe shodhan should be done if not then we can do Rakta mokshana.

In this patient vyadhi was chirkari and lakshana were severe so far that shodhan was done with the virechana and then shamana treatment is given.

After that patient get 60 to 70% result.

CONCLUSION

It can be concluded that chronic case of dadru can be successfully manage with Ayurvedic treatment such as virechan and Shaman Chiktsa.

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		Revi	ew of Sad	vrutta WSR Budd	ha Darshana	
					1. Dr.S a	rika S. Jadhav,
						P.G. Scholar
					2. Dr.	Smita Dhurde,
					Prof	fessor and HOD,
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Abstract

Ayurveda is the science of life and moreover it is a way of living in the word. Principle aim of Ayurveda is to maintain health rather than treating the disease. For achieving this purpose, certain rules are described in Ayurved Samhitas. By following these rules which include Dinacharya(daily regime), Ratricharya(night regime), Rutucharya (seasonal routine) and Sadvrutta(code of good conduct, mental health and social behavior), everyone can enjoy a healthy life. In Charak Samhita, Acharya Charak explained the Sadvrutta in detail.

The preaches of Buddha are explained in Baudha Darshan. It revolves around the alleviation of sufferings. By explaining 'Four Noble Truths'. Lord Buddha told the existence of Dukkha and how to get rid of it.

Key words- Sadv<mark>r</mark>utta, Baudha Darshan, Sufferings.

Introduction



yurveda believes in making illness to

wellness with a healthy lifestyle which includes diet and behavioral rules. Ayurveda explained rules of conduct for achieving healthy life i.e. Sadvritta. Everyone needs to follow Sadvrutta rules to stay healthy. Journey of life always goes through two stages of health and disease.

Sadvrutta are rules of good behavior and it includes Dinacharya, Rutucharya and Aachar Rasayan(1). Dinacharya and Rutucharya are described for maintenance of physical health, while Sadvrutta is described for sound mental and social health.

In Charak Samhita , Sutrasthana Adhyay 8, there is detailed description of Sadvrutta

- i.e 1. Behavioral Do's and Don't
 - 2. Eating etiquettes
 - 3. Social rules
 - 4. Rules for Study, Hawana karma
 - 5. Guidelines for abstinence

In Sushrut Samhita, Chikitsasthana Adhyay 24, Acharya Sushrut described rules of Sadvrutta which should be followed on daily basis for achieving a healthy and wealthy life(2).

In Ashtang Hrudaya, Sutrasthan, Dinacharya Adhyay, Acharya Vaghbhat explained rules of good behavior i.e. Sadachar. To gain a healthy, wealthy, long and successful life (3).

Baudha Darshan is an atheist philosophy as it is not believing in God and Vedas (4). When Lord Buddha saw various phases of Dukkhas such as disease, senility, death etc. , he left his home to find a way to get rid of these sufferings. He did great penance and found a way out these miseries. Lord Buddha, through his teachings, showed the way of relief from the sufferings to all the mankind. Lord Buddha explained Four Aryasatyas that Includes the existence of Dukkha/ suffering and the remedy for getting out of the Dukkhas (5).

Having been taught during the first teachings by Buddha to his first missionaries in Deer Park. Buddhist believe that the path to enlightenment starts with the understandings of Four Noble Truths. In order to attain Nirvana stage from the vicious cycle of birth and death, Lord Buddha has taught us to follow the Panchsheel, the Darsheel, Aryasthangik Marg (6).

Material and methods

- Bruhadtaees have been taken as a source material to review about Sadvrutta.
- Literature of Buddha's philosophy.
- Relevant literature has been consulted and for comparative study and drawing inferences.

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• Other internet media has also searched for similar matter and incorporated according to the need of the topic.

A literary review of sadavrutta

'Sadavrutta' derived from two words that 'sad' means good and 'vrutta' means different types of practices mentioned in social behavior, personal behavior either mentally or physically related. The Sadvrutta is briefly mentioned in Charak Samhita and this is also the Achar Rasayana(7).

Types of Sadvrutta :-

These ethics of right conduct are applicable to all people and should be practiced. Sadvrutta can be classified into five groups(8).

1. Ethical conduct (Vyavharik Sadvrutta)

- Always Speak the truth.
- Do not get addicted to sensory pleasures.
- Do not harm anyone.
- Try not to control your passions.
- Observe self control.
- Don't loose your self control under any circumstances.
- Speak pleasant and sweet words.
- Behave according to time and please where you are rising.
- Control your sense organs
- 2. Social Conduct (Samajika Sadavrutta)
 - In the society one Should be careful about conduct.
 - Speak softly, start with smiling face.
 - Speak politely with teachers, elderly and intelligent people.
 - Behavior, social mannerism are part of social conduct.

3. Mental Conduct (Manasika Sadvrutta)

- Always keep a self-interrogation about who am I and what the purpose of life.
- Try to understand the real divine and eternal of our soul.

4. Moral Conduct (Dharmika Sadvrutta)

• Dharma means good deeds that protects the individual as well as masses.

5. Physical Conduct (Sharirika Savrutta)

• Hygiene, respect and gratitude, care of sense organs and proper clothings etc.

6. Codes towards women and copulation

- No sexual act should be performed in morning and in the evening time.
- Copulation should not be done in any organ other than the genital organ(9).

Bauddha darshan

According to Buddhism, the main cause of sufferings is ignorance. Due to ignorance any human being proceeds to desire i.e. Trushna. Trushna leads to activity which brings in its turn the development of fresh desire. This is vicious cycle of life i.e. Bhavchakra. When ignorance is dispelled by right knowledge the vicious circle is broken and can become free from sufferings to attain peace or Nirvana.

Four Noble Truth(10) – Buddha believed that the path to enlightenment starts with the understandings of the Noble Truths.

- 1. Dukkha All form of life is suffering.
- 2. Dukkha Samuday Desire is the cause of suffering.
- 3. Dukkha Nirodh These sufferings can be ended 4. Dukkha Nirodh Marg

Panchasheel(11) – The five percents of Buddhism form the foundation for the Buddhist path to enlightment. These are seen in regulations concerning theft, murder, consumption, sexual activities, verbal actions.

- 1. Pranatipata Virati
- 2. Adattadan Virati
- 3. Kam Mithyachar Virati
- 4. Mrushavad Virati
- 5. Suramaireymajja Virati

Arya Ashthangik Marg(12) – The path which leads us for ending the suffering i.e. Dukkha Nirodh Marg.

- 1. Samyak Drushti (Right understanding) of four noble truths.
- 2. Samyak Sankalpa (Right thinking)- following the right path in life. Right aspiration is the true desire to free it oneself from attachment, ignorance and hatefulness.
- 3. Samyak Vaca (Right speech)- no lying, criticism.
- 4. Samyak Karma (Right conduct or right action)involves obtaining from hurtful behaviors such as killing, stealing.

- 5. Samyak Jivika (Right livelihood)- support yourself without harming others. It means making your living.
- 6. Samyak Prayatna (Right effort)- promote good thoughts, conquer evil thoughts.
- 7. Samyak Smruti (Right mindfulness)- become aware of your body, mind and feelings.
- 8. Samyak Samridhi (Right concentration) Mediate to achieve a higher state of consciousness.

Discussion

Ayurveda has stated that the reason for the occurrence of physical and mental diseases is Upadha(13) means Trushna. The Bhavachakra(14) starts with Avidya, later it turns into Trushna, which keeps revolving the vicious cycle of birth and death. There is sorrow in the life of every human being and Trushna is the cause of sorrow. Following the rules of Panchasheel and Arya Asthangik marg, everybody can get rid of his/her sufferings and get Nirvana. Lord Buddha remarked the importance of Panchasheel for common people and Dasasheel for Buddhist monks.

In Dasasheel the untimely eating i.e. eating after noon has been prohibited(15). Ayurveda also described the untimely eating as a major cause of diseases.

Buddhist follow the doctrine of the middle way, avoidance of extremes and accept moderation in all things. Ayurveda also advocates moderation i.e. balanced state of Dosha, Dhatu, Mala in the Samhitas(16). Like the eightfold path of Buddhism, Ayurveda also has rules for healthy living i.e. Sadvrutta and Aachar Rasayana.

Like Buddhism, Ayurveda advises us to resist negative thoughts, abstain from physical abuse, resist fear, pride, arrogance and ego(17).

Baudha Darshan refers to the Arya Ashthangik marg as the cure for pain. Ayurveda also described Ashtang Ayurveda for the treatment of diseases(18). Ayurveda prescribes Satvavajaya, Yuktivyapashraya and Daivavyapashraya treatment for treating diseased conditions(19). Also in order to stay healthy at all times it is recommended to follow Aachar Rasayana, Swasthavruttavcharan, Dinachrya, Rutucharya in Ayurveda Samhitas. As, Buddhist use the four Aryasatyas for the relief of human sufferings. Similar principals are followed by Ayurveda to cure disease i.e. Nidan Parivarjan, Aahar Vidhi Vidhan and Chikitsa.

Conclusion

From the above discussion, it can be concluded that, Ayurveda and Bauddha Darshan both explained Trushna/Upadha as the major cause of human sufferings. Buddha preaches that mind is the forerunner of all mental statuses. Human sufferings i.e. Dukkha includes all ills of mind and body in the form of pain imperfection and so on. Knowledge of Four Noble Truths is explained as a path of Dukkha Mukti i.e. Nirvana. Similarily, by practicing Sadvrutta, every human being can attain good health and get rejuvenation effects like longevity, memory intellect, free from disease, excellent potency of body and mind(20). Hence Ayurveda and Bauddha Darshan both give prime importance to the code of right conduct as it helps an individual to obtain and maintain their health, to build a most civilized society and nation.

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To Evaluate the Efficacy of Patra Pinda Sweda in Pain Management of Gridhrasi W.S.R to Sciatica

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Abstract:-

Girdhrasi as mentioned in Ayurveda explains a disorder where in pain starts from Sphik pradesha and radiates downwards to Kati, Prusta, Uru, Janu, Jangha and Pada, Due to this, the patient is unable to walk properly. Gridhrasi can be compared with Sciatica. Sciatica is a relatively common condition with a life time incidence varying from 13% to 40%. The corresponding annual incidence of an episode of Sciatica ranges from 1 to 5%. The incidence of Sciatica is related to age. It is rarely seen before the age of 20. Incidence peaks in fifth decade declines thereafter. Snehana and Swedana are considered as the general line of treatment for vatavikars. which can be taken as the Line for ghridhrasi.

Patra pinda Sweda is a form of Sankarasweda where different vatahara drugs are used. In this procedure, leaves of medicinal plants having Shothahara and Vedanastap and qualities this leaves are fried in medicated bala oil and materials divided into a two equal parts and tied into a Pottali. Thus, It has both Snehana and Swedana effect which helps in reducing the symptoms of Gridrasi. This article is review of clinical application of Patrapinda Swedaand its efficacy in Gridrasi.

Key words: Gridhrasi, Vatavyadhi, Snehana, Swedana, PatraPindaSweda, Vedanasthapana.

Introduction :-

D

anchakram is sp<mark>e</mark>cialty of Ayurveda panch

means five and karma means action. Ayurveda deals with the preventive and curative aspect of health. This therapy restores balance with natural low to maintain the equilibrium of doshas and stabilize internal milieu of body. Its also help to eliminates toxin, cleaning of srotas channels, improving digestion and mental function.

In Ayurveda Acharyas explained 80 vatavyadh is Gridhrasi is one of the shoolapradhan vatavyadhi where altered function of vata affect sciatica nerve, characterized by Girdhrasindhi stambha (stiffness), Ruk(pain), Toda(pricking pain). This symptoms initially affect sphik(buttock) as well as posterior aspect of kati (waist) and then gradually radiates to posterior aspect of uru (thigh, janu (knee), jangha(calf)and pada(foot). In panchakarma snehan and swedan are used as poorvakrama as well as pradhankarma for treating different disease. Swedana is one of the upakarma which can be adopted for the management of vatakaphapradhan disorder and can be performed by using various method.

Sankarasweda is a method in which the materials are tied in cloth and used for swedana and it is commonly known as pindaswead . patrapindaswead or Ela Kizhi is one of the best example in which leaves of medicinal plants along with with conventional drugs are rosted in pan with little oil and bolus is preared by tying in cloth, pind means bolus and sweda means sweating. This bolus heated upto a tolerable tempeture and swedan is done.

This prepared patrapindpottly is gently rubbing over the painful area to heal the pain and related condition and strenghth and rejuvenate joints, Muscle and soft tissue.

Aim:-

To evaluate the efficacy of patra pind sweada in pain management of Gridhrasi W.S.R to sciatica.

Material Method

1. Source of the data:

Sample source:-

• The patient from IPD/OPD of C.S.M.S.S Ayurvedic medical college hospital kachanchawadi Aurangabad.

Drug source:

• Patra pinda swead.

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Study • H • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 1 • 2 • 1 • 2 • 1 • 2 • 1 • 2 • 1 • 1 • 2 • 1 • • 1 • • 1 • • • 1 • • • • • • • •	15 Patients of sex and s	d was done for taken first on a g the treatment. f Ghridhrasi	8 th day and on were taken	•] a •] s t v •]	ration of pottali The fresh leaves should be washed in water and chopped in small pieces The leaves, Grated Coconut , Haridra, slicedleamn, sanidhava should be mixed thoroughly and fried together into 100ml oil well. Then prepared material divided into 2equal part and made into pottalis.	
5.11CU 1.	ision Criteria Both male and	female patient	s between the	Standar	d of operative procedure	
2. 3. 4.Excu 1k/a 2 pr 3 pa 5 Asse Ruka	age of 30 to 60 SLR test positiv patients with ghridhrasi. Ilusion Criteria c/o–DM,HTV regnant woman at atient who are no ssment Criteria: (pain):	ve 40 to 70 degr pratyatmaL nd lactating mon t willing for tria posture-1 thout limping-2 with limping k only with sup to walk-5. ion of patrapin Virgundi,Eranda	ee. akshanas of ther. 1. but without port- 4 dapottali: ²	1) P 7 7 7 7 7 7 7 7 7 7 7 7 7	Purv- karama: The patient should be lie comfortable prone position exposing the affected area. Bala tail will be warmed and Abhyangais done over the area Talam with bala oil and choorna should be applied. radhan karma: Prepared pottali will be heated with bala oil in hot iron pan up to 40 to 42 degree. Then it should be applied over the affected area after checking the temperature of pottali with mild pressures. Care should be taken to maintain the temperature throughout the procedure by reheating the pottalis aschat-karma After completion of treatment body should be wiped with clean towel Remove talam and apply Rasnadi churna. Advised to take hot water bath after half	
	Grated coconut Lemon-4 Haridra Rasna churn-10 Shatapushpa-10 Saindhava-10gr Cotton cloth Tags Gas Vessels for fryi	-100gm gm Ogm n For frying le ttalis -20 - 10ml	eating potttali eaves -100ml	Precau • (v t • H t t • I g t • I	hour Duration: 45min	

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Complications:

• Burns and fainting: if occurs, stop the procedure and Agnidagdha chikitsa has to be done.

Indication:Intervertebraldiscprotrusion orprolapsed(IVDP),Sciatica(Gridhrasi),Osteoarthrites,ChronicstageofRA,Cervicalspondylosis,Ankylisingspondyliyis,Frozneshoulder, Pakshvadha,etc.Shoulder,

Contraindication:

Taruna jwara (Acute Feyer), Atisara (Diarhoea), Raktapitta (Hemoeehagic disorder) Twak Vikara (Infective eczema), etc.³

Observational And Result:

- 15 Patient with the diagnosis of gridhrasi /sciatica were selected for the study irrespective of their socio-economic status ,gender etc.
- These patients were treated with patra panda swaed.
- The detailed description of sample of 15 patient is given in the following 2 healdings.

A. DEMOGRAPHIC DATA:

The results were tabulated first and then mean was calculated and converted into the percentage.

1. Distribution of Patient according to Age

	8 8 8				
Age Group (This Year)	No. Of Patients	% of Patient			
20-35	6	40	Hr.		
36-50	4	26.67	-		
51-65	5	33.33			

3. Distribution of Patient according to Gender

Gender	No. Of Patient	% of patient
Male	5	33.33
Female	10	66.67

4.Distribution of Patient according to Marital Status

Marital Status	No. of Patient	% of Patient
Married	14	93.33
Un- Married	1	6.67

5. Distribution of Patient according to Religion

Religion	NO. Of Patient	% of Patient
Hindu	15	100
Muslim	0	0
Other	0	0

6. Distribution of Patient according to Habitat

Habitat	No. Of Patient	% of Patient
Urban	1	6.67
Rural	14	93.33

7.Distribution of Patient according to Socioeconomic Status

Socio-economic status	No. Of patient	% of Patient
Poor	6	40
Low-Middle	6	40
Middle	3	20
Upple-Middle	0	0
Rich	0	0

8. Distribution of Patient according to Occupation

Occupation	No. Of Patient	% of Patient
Labourer	5	33.33
Office	1	6.67
House wife	5	33.33
Farmer	1	6.67
Other	3	20

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9. Distribution of Patient according to Addiction

Addiction	No. Of Patient	% of Patient
Smoking	2	13.33
Tobacco	5	33.33
Alcohol	3	20
None	5	33.33

10. Effect OF Treatment of Ruk (Pain) in FU1

Par			Red	Red	S		S	-	Т	Р
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ter			on	on		/	Μ	20	al	al
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Ruk	2	1.	0.86	<u>36.9</u>	1	0.	0.	0.	4.	0.
		4		0		9	2	2	02	00
	3	3			1	2	9	4		13
	3			0	1					

11. Effect of Treatment of Ruk (Pain) in FU2

Par	Me	ean	Red	Red	S		S		Т	Р
ame			ucti	ucti	D		Е		V	V
ter			on	on			Μ		al	al
			in	%	8				ue	ue
	B	F	Me		B	F	В	F		
	Т	U	an		Т	U	Т	U	-	
		2				2		2	Cia	
Ruk	2.	1.	0.80	34.3	1/	0.	0.	0.	4.	0.
	3	5		3		9	2	2	00	00
	3	3			1	9	9	6		13
					1	-	n	In		

Discussion:

On Effect of Treatment: Here the disease is produced due to the degeneration of the disc and it lead to compression of the nerve .in this condition vitiation of vata would have take place. in between the inter vertebral disc the shleshaka kapha reduce which lead to friction between two vertebrae. so it to compression on the nerve .The chikitsa sutra of gridhrasi is snehana and swedana .patra pinda sweda is a form of sankara swead where vatahara patra are taken and being practiced its easy procedure and excellent fast action in relieving the symptoms.The assessment of result were made by signs and symptoms of gridhrasi which includes subjective and objective parameters like Ruk , samyak swedan, lakshana ,SLR.

Effect on Ruk:Ruk is due to vatavridhi There will be derangement in vatadosha leading to vataprkopa. once vata vitiation is corrected Ruk will be reduced. Patra pinda sweada is having ushnavirya,vatakaphahara ,vedanasthapaka, sothahara property. On external application of patra sothahara panda sweada is having and vedanasthapana property. By the action of these drugs Ruk may reduce. Also Swedana by increasing temperature locally to the muscle, improves blood circulation and help to reduce pain.

Conclusion:

Gridhrasi is one among the 80 vata – nanatmaja vikaras which can effectively treated with swedana .Patra pindswead are sagni ,Ekanga,Madhyama,Samshamaneeya type of sweda . Patra pinda sweada was highly effective in the pain management of gridhrasi .It can be concluded that patra pinda sweada can be better option in the pain management of gridhrasi because the results are statistically significant.

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		Physical	lly workii	ng Person w.s.r. Sl	iramahar	
		•	•		1ramahar a ¹ , Dr. Mundhe Chaita	lli Ganeshrao ²
		•	Dr. Sonwan	e Ramesh Dnyanob		
		•	Dr. Sonwan	e Ramesh Dnyanob ociate Professor and	a ¹ , Dr. Mundhe Chaita	na Department

Abstract:

Abhyanga is the anointing of the body with oil. Often medicated, massage with oil to the body daily does not become affected much even if subjected to accidental injuries, or excessive physical work.

In Dincharya abhyanga of the whole body with oil is one of the main procedures to maintain to rejuvenate, to improve blood circulation. In day-to-day life, we do multiple physical and mental activities due to which our body gets tired and fatigued. Hence or Acharyas described abhyanga in Dincharya with specific manner time, duration. Due to physical exertion or activity vatdosha is aggravated so the tail is the best medicine to control vatdosha. Bala tail has properties of vata Shamana and Datu poshak. Abhyanga with bala tail controls the vatdosha and develops strength both physical as well as mental i.e. Shramahar Gun of Abhyanga

Key Words – Abhyanga, Dincharya, Bala tail, Antarparimarjan, Bahirparimarsjan, Shramahar

Introdction

anchakarma offers a unique approach of

Ayurveda to therapy with specially designed five procedures of internal purification of the body. Panchakarma not merely a shodhana therapy as it is understood, but also a wider range of therapeutics such as Snehan, Rukshan, Brimhana, Lekhana, Stambhana, among this Snehana is the major preparatory procedure and it has two types -Abhyantar snehana and bahya snehana. It also includes Antar parimarjan and Bahirparimarjan Chikitsa.

Bahirparimrajan Chikitsa means Medicine that treats the disease with the support of external application on the skin. and this done with Snehana in different ways such as Abhyanga, Gandusha, lepa, Udavartan, Padaghat, Murdhatail, Parishek, Akshitarpan, Samvaahana, Karnpuran, Nasatarpan, Snehavagahana.

The prime motive of Ayurveda is Swasthasya swasthya rakshnam then aturasya vikar prashmana. In Dincharya, Abhyanga, massage of the whole body with oil is one of the main procedures to maintain, to rejuvenate, to improve blood circulation, and mainly to strengthen the body or do physical activities. In day-to-day life, a man does multiple physical activities due to which we get tired and feel fatigued i.e. Muscle weakness, chronic tiredness or sleepiness, headache, dizziness, sore or aching muscles.

Hence our Acharya described Abhyanga in Dincharya in a very specific manner with definition or timing and duration of abhyanga due to physical exertion or activity Vatd osha is aggravated, and for Vatdosha Tail is the best medicine. And Bala Tail (Sahastrayog) has properties of Balya, Vatshamak, Dhatuposhak and specifically acts on Mansdhatu, Abhyanga of Bala Tail controls vatdosha and the person developed strength both physical as well as mental, i.e. Shramahar Guna of Abhyanga. Out of various properties of the Abhyanga Shramahar is one of the properties, that's why I choose this topic.

Aim-

• To Rule out the clinical trial of bala tail Abhyanga in Physically working person w.s.r. to Shramahar

Objective-

• To establish the Mechanism of Action of Bala Tail Abhyanga in physically working person w.s.r. Shramhar.

Materials and methods

Patient with following symptoms were included in study,

- Fatigue
- Muscle weakness

VOL- VIII	ISSUE- I	JANUARY	2021	PEER REVIEW e-JOURNAL	IMPACT FAC 7.149		ISSN 349-638
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•

5. Sore or Aching Muscle

Gradation	
No pain	0
Mild pain	1
Moderate	2
Worst	3

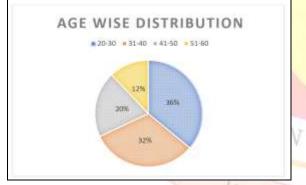
6. Unrefreshing Sleep

Before Treatment	After Treatment
Present	Absent
servations & Results	nal Int
wise Distribution	101

Observations & Results

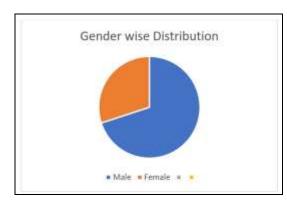
Age wise Distribution

Age in years	No. of Patient	% of pt in different age group
20-30	8	36
31-40	6	32
41-50	4	20
51-60	2	12
	-	



Gender wise Distribution

Sex	No. of Patient	%	iri
Female	б	30	
Male	14	70	



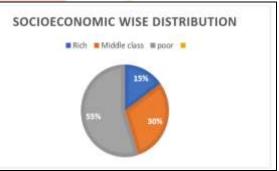
Occupation wise Distribution

	No. of Patient	Percentage%
Worker	12	60
Service	4	20
Housewife	4	20



Socioeconomic wise Distribution

	No. of Patient	Percentage%
Rich	3	15
Middle class	6	30
Poor	11	55



Lakashana wise Distribution

Lakashana	No. of Patient	Percentage%
Fatigue	8	40
Muscle	6	30
Weakness		
Headache	2	10
Dizziness	2	10
Soar or Aching	2	10
Muscle		

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• Wilcoxon Test:

Sr N o	Variabl es	Befo re T/t	Afte r T/t	P	Result	%
1	Fatigue	3.405	0.73	<0.00 01	Significa nt	73.0 6
2	Muscle Weakne ss	2.62	0.9	<0.00 01	Significa nt	65.6 4
3	Headac he	2.59	0.73	<0.00 01	Significa nt	71.8 1
4	Sore or Aching muscle	2.59	0.6	<0.00 01	Significa nt	76.8 3

- P-value of **Fatigue** is <0.0001, hence result is highly significant
- P-value of Muscle weakness is <0.0001, hence result is highly significant
- P-value of **Headache** is <0.0001, hence the result is highly significant.
- P-value of Sore or aching muscle is <0.0001, OUI hence result is highly significant

Result:

- According to statistical analysis, significant results were observed in the following parameters as Fatigue, Muscle weakness, Headache, Sore or aching muscle.
- Thus, it can be concluded that Abhyanga of Bala tail in physically working person w.s.r.to Shramahar is effective

Discussion

By using oil massage daily, a person is endowed with pleasant touch, trimmed body part and becomes strong, charming and least affected by old age, massage enhances medical treatment and helps people feel relaxed from stress n anxiety.

The Tail used for Abhyanga nourishes the tissue, gives strength and increases the Agni, reduces heart rate, lower blood pressure and increased blood circulation, especially nerves system gets stimulated, thus providing stimulation to the muscular system, vessels and glands governed by the particular nerve and keeps the human body healthy, massaging also improve the circulation system thus reducing the pain.

Conclusion:

Vata is mainly responsible for tactile sensation and the tactile sensation is through the skin. So Abhyanga is best for the skin and so it should be done daily.

In this way, massage / Abhyanga is a protector, preserver, and rejuvenator, increasing strength, muscle power, it helps for refreshing sleep, stamina for doing physical work.

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Ayurvedic Management of Yuvanpidika with Special Reference to Acne Vulgaris in Adolescence – A Case Report

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Abstract:- Yuvanpidika is mentioned in the Kshudra Rogas in Ayurved. Kshudra Rogas are the group of diseases which are diminutive in nature. Other synonym of Yuvanpidika is Mukhadushika. The first one means the eruptions occurring in young generation specifically adolescents. The latter means the barrier which disturbs the beauty of the face. Its modern equivalent is Acne Vulgaris. Acne is chronic inflammatory pilo-sebaceous glands derangement. The modern treatment is time taking and often produces adverse effects. The conscious younger generation in the need to get complete relief need proper counselling about the healthy lifestyle along with the treatment. Present study shows a case of a teenager girl of grade 3 Acne Vulgaris treated with Avurvedic Shamana Chikitsa and Jalaukavacharana along with Nidanaparivarjana over the course of 2 months only. However she was adviced to follow proper lifestyle afterwards.

Keywords:- Yuvanpidika, Kshudra rogas, Mukhadushika, Acne Vulgaris, Shamana Chikitsa, Jalaukavacharana, Nidanaparivarjana.

I. INTRODUCTION

Humans have engaged with the concept of beauty for ages. Everyone wants to look more beautiful and attractive. So, the smallest spot on the face might lessen the legacy of the beauty especially in adolescents. Adolescent age group is referred as 'Youvanavastha' in Ayurved. And the common culprit which disturbs the beauty of these adolescent teenagers is said to be Yuvanpidika. Another synonym of Yuvanpidika is 'Mukhadushika' which literally means barrier of the beauty of the face.

The diseases which are *Kshudra* or diminutive in nature, which symptoms and signs are in less quantity and quality compared to other diseases and which are not life threatening are termed as *'Kshudra-roga'* in Ayurved context. *Yuvanpidika* is one of the *Kshudra-rogas*. The main symptom of *Yuvanpidika* mentioned by *Acharya Sushruta* is – *Pidika* (eruption) which looks like *Shalmali kantaka* (Thorn of the herb named Shalmali malabarica). It is formed over face because of the vitiated *Kapha-Vata* and *Rakta Doshas*.¹ *Acharya Vagbhata* added the symptoms – *Saruja* (having pain) and *Ghana* (dense) in nature. It also contains *Meda* (fats) in it.²

If we compare all these symptoms of *Yuvanpidika* in modern context, it can be correlated with Acne Vulgaris. Acne is a chronic inflammation of pilo-sebaceous units. It has been estimated to affect over 90% od adolescents, most commonly between the ages of 12 to 20. Acne can have negative effects on self esteem. The consequences can be devastating leading to embarrassment, school avoidance and lifelong effects on ability to form friendships and acquire and keep employment.³

II. CASE REPORT

A 15 year old female patient reported in the in the OPD of Kaumarbhritya department of CSMSS Ayurved Hospital. Kanchanwadi, Aurangabad, Maharashtra complaining with acne papules and pustules over bilateral cheeks and forehead along with inflammation since last one year. The patient had very oily skin. The problem started when patient was 14 year old when reddish comedones started to erupt on both cheeks associated with tenderness and itching. The patient got very anxious and consulted dermatologist. The treatment she received was local retinoid application and oral antibiotics. She continued this treatment for two months. But only during the treatment would she get relief, after discontinuing the treatment the symptoms would exaggerate and worsen. She approached two more dermatologists for allopathic treatment but did not get sustained relief. Then she came to our hospital for seeking Ayurvedic treatment.

General Examination:

General condition- Good Pulse- 78/min. Respiratory System- Air Entry Bilaterally Equal Cardiovascular System- S₁ S₂ Normal

Ashtavidha Parikshana-

Nadi- Vatapradhana Kapha Mutra- Samyak Pravritti Mala- Samyak Pravritti Jivha- Saama Shabda- Prakrit (normal) Sparsha- Samashitoshna, Snigdha Druka-Prakrit Akriti- Madhyama Prakriti Parikshana- Vata-Kapha Pradhana Koshtha- Madhyam

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Local Examination- The skin of the face of the patient was very greasy. The eruptions were located at checks and forehead with multiple reddish inflamed papules and pustules. The eruptions were dense and associated with pain and severe itching.

Brief History –

Socioeconomic status- Higher middle class

Ahara itivritta (**Dietic history**) - Excessive eating of curd, pickles, groundnuts, sesame, salty-fried food stuffs, junk foods on daily basis.

Vihara itivritta (Lifestyle) - Irregular sleep and diet patterns due to study, and excess stress of the study.

Diagnosis – It was mainly based on *Sushruta Samhita* and *Ashtangahridayam*. The signs and symptoms of the patient were taken as per *Acharya Sushruta* and *Vagbhata* said e.g.-*Shalmali* thorn like *Pidika* (papules and pustules), *Saruja* (pain or tenderness), *Ghana* (dense-inflammed), and *Kandu* (itching).

Nidanapanchaka -

<u>Nidan</u>- Ati-amla and lavana rasapradhana, Atisnigdha, Paryushita ahara, and stressful Vihara

Poorvarupa- Reddish comedones and greasy skin.

<u>Rupa</u>- Shalmali kantaka Pidika (Shalmali thorn like Reddish papules and pustules), *Ghana* (inflammation), *Saruja* (pain and tenderness), *Kandu* (itching)

<u>Samprapti</u>- Due to habitual eating of Ati-amla, lavan rasapradhana, Atisnigdha, Paryushita ahara and Manasika Chinta (stress,) Kapha and Maruta vitiated and impurified Rasa and Rakta dhatu and Twacha of face resulting in Yuvanpidika. <u>Dosha</u>- Kapha -Vata <u>Dushya</u>- Rasa, Rakta, Twak <u>Srotasa-</u> Rasa-Raktavaha.

Avastha- Jeerna (chronic) <u>Sadhyasadhyata</u>- Kashtasadhya

III. MATERIALS AND METHODS

First of all, *Nidanaparivarjana*⁴ (avoidance of cause) was advised. The patient was asked to stop eating of curd, pickles, groundnuts, sesame, salty-fried food stuffs and junk foods. Also she was advised to follow regular *Dinacharya* (regular diet and sleep pattern).

The patient was mainly subjected to *Shamana chikitsa* (pacification therapy) and *Shodhana Chikitsa* (Purification therapy). Throughout the therapy of 2 months, the patient was followed every 15 days at OPD of Dept. of *Kaumarbhritya* of CSMSS Ayurved Hospital, *Aurangabad, Maharashtra*.

Table no. 1 showing Shamana Chikitsa

Sr. No.	Medicines	Dose	Anupana
1.	Shankhabhasma Vati – 250 mg	2 tablets twice a day	With lukewarm water
		Mor. – Eve. After meals	
2.	Gandhaka Rasayana- 125 mg	2 tablets twice a day	With milk
		Mor eve. After meals	
3.	Triphala Guggula- 250 mg	2 tablets twice a day	With lukewarm water
		Mor. – Eve. After meals	

Shodhana Chiktsa- The patient was subjected to *Jalaukavacharana* (Leech application) twice in the 2 months course. The first sitting was on the second visit i.e. after 15 days of oral medicines started. And the second sitting was done on 45^{th} day of the treatment. While each Leech

application sitting, both the cheeks were applied with 2-2 leeches (considering the severity of pustules and papules) and this application continued uptill the *Shuddha Rakta* comes out. The *Jalaukavacharana Vidhi* and Leech care procedure was adopted from the *Sushrut Samhita*.⁵

IV. OBSERVATIONS

Symptoms	BT	After 15 days	After 30 davs	After 45 days	After 60 days	
Shalamali Kantaka pidika	++++	+++	++	+	-	
<i>Saruja</i> (painful)	+++	++	+	+	-	
Shotha (inflammation)	+++	++	+	+	-	
Kandu (pruritus)	+++	++	++	+	-	
Ghana (denseness)	++++	+++	++	+	-	

Table no. 2 showing remarkable effect of therapy on subjective criteria

Table no. 3 showing Grades of Acne Vulgaris⁶

Mild acne	Grade 1	Comedones and few papules
Moderate acne	Grade 2	Comedones, papules and few pustules
Severe acne	Grade 3	Mainly pustules, abscesses and few nodules
Cystic acne	Grade 4	Cysts, nodules and widespread scarring

Table no. 4 showing effect of therapy on Grades of Acne V	Vulgaris
---	----------

BT	After 15 days	After 30 days	After 45 days	After 60 days
Grade 3	Grade 2	Grade 1	Grade 1	



Photograph -1- Before Treatment



Photograph -2- Leech application



Photograph -3- After 45 days of Treatment



Photograph -4- After completion of Treatment

V. DISCUSSION

In modern point of view, Acne vulgaris generally treated with topical Retinoid, Azelaic acid, Salicylic acid, Banzoil peroxide which are very well known for the adverse effects like irritation, bleaching and resistance. The antibiotics used to treat Acne show side effects like gastrointestinal upset, pseudomotor cerebri etc. Hormonal agents like Spiranolactone etc used to treat Acne leads to irregular menstruation in girls.⁷

In Ayurved context, *Shankha Bhasma* is specifically indicated to treat *Yuvanpidika*.⁸ It specifically acts on *Rasa-Rakta Dhatu*. So the first preference for internal medication in this patient was *Shankha Bhasma*. The powdered form of this drug was found to be difficult to ingest by the patient hence, modified form was used as tablets. *Shankha bhasma Vati* was given to the patient which purified *Rakta dhatu*.

The main impact of *Gandhaka Rasayana*⁹ is found to be on *Rakta dhatu* and *Twacha* which are main *Dushya* in *Yuvanpidika*. It is mentioned in *Rasayana Prakarana* of *Yogaratnakara*. It acts as Rasayana (rejuvenating factor) on the skin which might be resulting in less scarring in any skin ailments. Therefore *Gandhaka Rsayana* was selected for oral administration and it indeed helped in less scarring and early healing of Acne eruptions.

The *Triphala Guggula* mentioned in *Vrana-Shotha* adhikara¹⁰ is useful to reduce all types of Shotha which is a characteristic feature of *Yuvanpidika*. It is also useful in *Medadushti* which is essentially present in case of *Yuvanpidika*. Hence, *Triphala Guggula* was given orally to the patient which resulted in reducing the pain and inflammation of Acne.

Jalaukavacharana (Blood-letting with the help of leech) is a well accepted treatment for vitiated Raktadosha. It is painless and non-invasive way of bloodletting. Acharya Vagbhata mentioned bloodletting with Siravedha¹¹ (venous puncture) in the management part of Mukhadushika, we opted Jalaukavacharana. Acharya Sushruta¹² mentioned the Leech therapy as 'Param Sukumara Raktamokshana' (Blood-letting for weak people) and is useful in Balyavastha. Leech sucks vitiated blood from applied area. Leech's saliva contains many enzymes viz- Hirudin, antiinflammatory- Bdellin, anti-platelet aggregate factor-Apyrase, diffusion & antibiotic factor-Hyaluronidase and Vasodialator substances. So, considering the age of the patient we have done Leech therapy twice on the patient with the gap of 30 days and the patient showed excellent result without any problem.

After taking oral medications continuously for 2 months along with Leech application, patient got sustained relief. However she was advised to avoid the *Nidanas* lifelong.

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VI. CONCLUSION

Yuvanpidika is most common adolescent skin disease mainly seen over the face. It harasses the teenager physically and mentally. Oral Ayurvedic management aims to give blissful life to the patient by decreasing the vitiated *Doshas*. Leech therapy also found to be effective and non-invasive simple technique in relieving signs and symptoms.

From this study it can be concluded that *Shamana Chikitsa* along with *Jalaukavacharana* and *Nidanaparivarjana* is very effective in the management of *Yuvanpidika*.

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REVIEW ARTICLE

Concept of Aama and Dhatvagni in Ayurveda

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Abstract: Ayurveda is the science which mentioned various principles for prevention and treatment of disease. Ahara is extremely important entity in everybody's life. According to Ayurveda 'Sarvam Dravyam Panchbhoutikam' [1] i.e. all creation arises out of five great elements known as 'Mahabhutas'. Agni is the important key factor for transformation of consumed ahara, viharadi dravyas of Vijatiya origin to Sajatiya nature and converts the food consumed and produces energy. Agni regulates the course of digestion and metabolism and the main cause for all the disease formation is 'Mandagni [2].' Due to mandagni there is formation of 'Aama'; which is unripe / undigested food. Aama further causes Jatharagni, Dhatvagni dushti. The concept of Aama is the most important fundamental principle of Ayurveda in understanding the Physio-pathology of the diseases³. Now days, due to increasing pollution, lack of exercise, the immunity is decreased. Aama production can result in variety of diseases like Aamavata, Madhumeha / Prameha (Diabetes mellitus), Medoroga, Sthoulya, etc.

Keywords: Aama, Mandagni, Aahara, Dhatvagni, Etc.Article Received: 23 Jan. 2020Revised: 12 Feb. 2021

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Introduction

In Ayurvedic classics, Aama which is the product of metabolic defect it has been considered an important factor for the pathogenesis of most of the diseases and also in modification of disease process. The concept of Aama is the most important and fundamental principle in understanding the physio-pathology of the diseases [3].

It is formed due to improperly metabolized by product of food at level (macro level), Bhutagni level (micro level) and at responsible for the development of various diseases process in the body. Aama is not a single entity but is a generalized term, which be applied many malformed can to substances in the body comparing them with that of Aama.

The role of these factors is all ready established fact in certain auto immune disorders. The different types of Aama depending upon their origin and properties depending upon Agni.

Materials and Methods

Concept of Aama

Aama is produce from Ahara rasa when it is not properly digested. In case of jatharagnimandya, the Ahara rasa is the undigested food but in case of rest of agnis it is the metabolites that are undergoing process of metabolism by these Agni's. Place of origin of Aama is given as Amashaya. But considering the presence of Agni at different level Aama can be produced at different levels at different sites in the body [4].

Aama is Developed with the 3 Causes [5]

- Jatharagni-dourabalya janya-It is formed in the process of Avasthapaka due to Agnimandya.
- Dhatvagni-dourbalya janya-It causes paka in Rasa-Raktadi dhatu.
- **Dosha-ati matra janya-**Developed due to excessive consumption of dushta ahara.

Concept of Dhatvagni

Avurveda science titles 'Rasa' to that sensation which is perceived by taste-buds of tongue. The taste which is perceived by tongue known as 'Rasa'. It indicates physiology of Mahabhutagni in living body. This agni / fire in living body occupies entire various bio-transformations. body and Dhatvagni is name to that part of fire, which assimilates or synthesizes 'Dhatu' of living body. This need particular environment hence these 'Dhatvagni' are located in Strotas related to that particular dhatu. This agni is responsible for nourishment of seven Dhatus. It exists in Dhatu itself.

Hence It is called 'Dhatavagni'. When digested nutrients reach this Dhatvagni. Aahara rasa is final product of digestion by Pachakagni in Mahastrotas. This has to be circulated throughout the body. Rasa Dhatu circulates continuous for twenty four hours. Ahara rasa and Rasa Dhatu provide nutrients to strotas. Seven Dhatu contain their own Agni in them. This Agni once more digests already digested food oroducts into two portions. One portion is called 'Sara', which actually nourishes concerned Dhatu and other portion, not useful for that concerned Dhatu, is 'Kitta' portion [6].

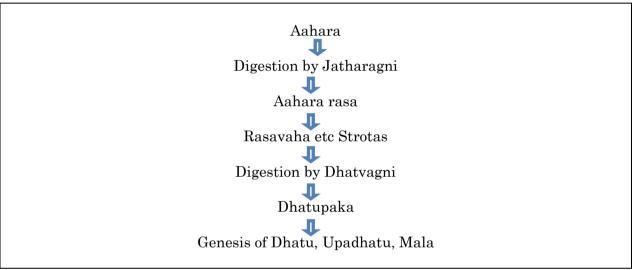


Figure1: Role of Aama and Dhatvagni in metabolic disorders

When food is indigested, it has to be digested to get absorbed. In Ayurvedic concept of digestion, every food particle undergoes a common path of three stages. Each of these three stages through which every food particle has to pass while getting digested is called 'Avastha-Paka' [7]. Each of these three stages is denoted by Rasa. After this final bio-transformation it gets assimilated in body entities due to action of 'Dhatvagni'.

Functions of Dhatvagni are mainly two; one is synthesis of new tissue and second is to yield energy for the function of tissue. If Dhatvagni is impaired both of these will impair. Seven categories of agnis, & dhatus undergo metabolic transformation in two different ways for the sustainrs of the body. One is Prasad paka is stated to is kitta paka. The Prasad paka is stated to yield the seven kinds of poshaka or Asthayi dhatus. Kitta paka is the waste products [8].

The nutrient fraction of Rasa (Plasma) provides nourishment to Rakta (Blood), that of Rakta to Mansa (Muscle tissue), that of Mansa to Medas (Fat), that of Medas to Asthi (Bone), that of Asthi to Majja (Bone marrow), and the nutrient fraction of Majja provides nourishment to Shukra [9]. Aama can be produced at various levels. When it manifests due to improper function of Jatharagni, Dhatvagni; it causes so many diseases of gastro-intestinal origin like Atisara. functions Visuchika, etc. Altered of Dhatvagni cause Dhatu-pradoshaja vikaras vikara, Rasa-pradoshaja like Rakta Pradoshaja Vikaras, etc [10].

Due to improper functioning of dhatvagni sama dhatu is formed i.e. Sama Rasa, Rakta, Mansa, etc. These incompletely formed dhatus may also hamper nutrition of next consecutive dhatu to be nourished. When there is defect in the function of bhutagni, it will not be able to digest Aahara.

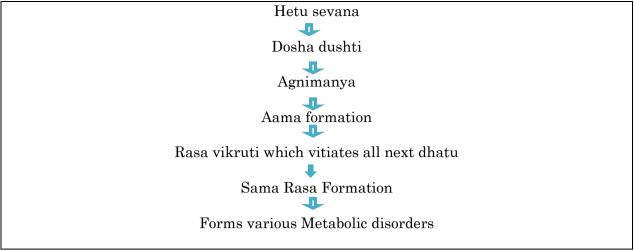


Figure 2: Process of various metabolic disorders

Discussion

Aama is very unique and important concept explained in Ayurveda science. Which causes various dosha, dushya dushti in the body and develops various Agnimandyajanit Vikaras? Aama also hampers the bio-transformation activity / energy of the body i.e. Agni. It vitiates Agni, Dhatvagni, Mahabhutagni, etc. Which enables to digest and forms energy from the food? As in Ayurveda described that all disease formation is due to the Agni mandya / Jatharagni mandya. Therefore for treatment concept of Aama and Agni / Jathargni / Dhatvagni is very important.

Conclusion

For development of Metabolic disorders like Aamavata, Medoroga, Prameha (Diabetes Mellitus), Stholya, etc. Role of Aama and Dhatvagni is very important. They are the basic concepts explained in Ayurveda. Which are important factors to rule out the cause and important for treatment.

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RESEARCH ARTICLE

The Management of Kshina Shukra Dhatu in Ayurveda w.s.r. to Oligospermia

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Abstract: Infertility is a significant clinical problem today, which affects 8-12 % of couples worldwide. In all infertility cases, approximately 40-50 % is due to 'Male factor'. According to W H O, Infertility is a disease of reproductive system defined by failure to achieve the clinical pregnancy after 12 months or more of regular unprotected sexual intercourse. Infertility affects around 1 in 7 couples of reproductive age, often causing psychological distress. According to Ayurveda, this condition is considered as Vandhyatva. The factors responsible for conception are considered as Ritu (season/time), Kshetra (uterus), Ambu (nutrients with water) and Bija (Sperm & ovum) Vandhyatva found in both male and female. The Oligospermia is one of the conditions related to male infertility defined as low sperm count. Ayurveda the science of Indian medical system described various terms related to male infertility such as; Kshina Shukra, Kshina Retasa, Alpa Retasa and Shukra Dosha which resembles conditions associated with Oligospermia. In Ayurveda there are various methods are given in which Shodhana and Shamana Chikitsa are useful in the management of Kshina Shukra. Patient was treated with shodhan and shaman chikitsa. Results were found quite satisfactory.

Keywords: Infertility, Vandhyatva, Male factor, Kshina shukra, Oligospermia, Shodhana chiliast, Shamana chikitsa.

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Introduction

Infertility is defined as a disease of the reproductive system and results in disability. It is a global public health issue. It is defined as the inability of a couple to conceive a child after 1 year of sexual intercourse without contraceptive use. Infertility affects an estimated 15% of couples globally, amounting to 48.5 million couples [1].

In men, infertility may result from impaired sperm quality (ex. Reduced motility)/ reduced sperm numbers [2]. As per the WHO estimates 60-80 million couples worldwide currently suffer from infertility. It was reported that 40% of infertility cases were related to men, 40% of women & 20% of both sexes. A recent report on the status of infertility in India, states that nearly 50% of infertility is related to the reproductive anomalies / disorder in the male [3].

According to Ayurveda, Shukra present in all over the body but in invisible manner. As ghee is indistinguishable in milk. Same way jaggary cannot directly see in sugar cane [4]. Moolasthana of Shukravaha Strotasa in Ayurveda is Vrushana (Testis) and Shefa (Urethra) [5]. The endocrine function of testis is formation & maturation of germ cells (Spermatozoa) and production of male sex harmone (Testosterone). It is responsible for Vruddhi and Kshaya of Shukra [6].

Shukra Dhatu Karma

'शुक्रं धैर्यं च्यवनं प्रीतिं देहबलं हर्षं बीजार्थं च |...... (सु. सु.15 / 7)

Shukra performs various functions like Dhairyam, Chyavanam, Pritim, Dehabalam, Harsha and Bijartham [7]. When these karmas are affects by the vitiated doshas, hetus then it reduces Shukra formation and leads to Kshina-Shukrata. Kshinashukra is kshaya of shukra dhatu in the body due to change in diet, lifestyle, stress and disorders like hormonal imbalance, orchitis, mumps & varicocele, etc.

Further aggravating the problems now a day are Manasika hetus like Chinta, Shoka, Stress are creating disturbances in sleeping problems, also the people who are more associated with poor nutrition, persons having Mandagni-Vishamagni are more prone to get Shukra dushti [8]. Out of total infertility wordwide 40-50% male factors is responsible due to different pathology related to shukra especially Kshinashukra (Oligospermia). Due to Shukra dourbalata symptoms found like loss of erection, premature ejaculation, muscle weakness, wrinkling of skin, hair whitening, fatigue, and loss of concentration power are seen.

Shukrakshaya Lakshanas are as follows

'दौर्बल्यं मुख शोषश्च पाण्डुत्वं सदनं भ्रम: |

क्लैब्यं शुक्राविसर्गश्च क्षीणशुक्रस्य लक्षणम् ।।'......(च.सु. 17/ 69) [9]

'शुक्रक्षये मेढ्वृषणवेदनाअशक्तिमैथुने चिराद् वा प्रसेक: प्रसेके चाल्परक्तश्क्रदर्शनम् ।'....... (सु.सु. 15/9)[10].

Table 1: Conditions and Pathophysiology of Oligospermia				
Samprapti (Kshina-Shukra)	Pathophysiology of Oligospermia			
↓				
Aaharaj hetu - Excessive Salt intake,	Causes – Harmonal imbalance, Ejaculation			
Spicy foods, Fast foods, Ruksha ahara, Alpa	issues, infections, etc.			
ahara, etc.	Π			
Viharaj hetu - No exercise, Diwasvapa,				
Ratrijagarana, No physical exertion.	Impairement in Harmone secretion +			
	Gonadotropin deficiency			
Manasa hetu - Stress, Mild depression	Π			
(due to death of mother), Bhaya, Shoka,	ļĻ			
etc.	Less secretion of testosterone from the testis			
Agnimandya				
	\diamond			
Rasavaha stroto dushti, Rasagni mandya	Oligospermia			
Alpa Rasadi Dhatu Poshana				
Alpa Nasaul Dhatu Foshana				
Shukragni Mandya, Shukravaha Stroto				
dushti				
Π				
Alpa Shukra Dhatu Karma				
Kshinashukra				
l I				
Vandhyatva				

Table 1: Conditions and Pathophysiology of Oligospermia

Aims & Objectives

To study the effect of Shodhana and Shamana Chikitsa in the management of Kshina-Shukra (Oligospermia).

Objectives

- To study the effect of Shodhana Chikitsa in the management of Kshina - Shukra (Oligospermia).
- To study the effect of Shamana Chikitsa in the management of Kshina-Shukra (Oligospermia).

Methodology

Case Study

A 32 year old male patient, approached in Kayachikitsa Opd with his wife. The couple were married and were unable to conceive even after having 8 years of married life. He had presenting with the complaints of.

- Dourbalya
- Mukhashosha
- Sadanam / Angamarda
- Shukra-avisarga
- Klaibya
- Malabaddhata
- Chinta, Shoka,
- Anidra

Ashtavidha Pariksha

- Nadi = 80/min
- Mala = Asamyaka
- Mutra = Samyaka
- Jivha = Alpa Sama
- Shabda = Spashta
- Sparsha = Anushna

Table 2: Samprapti bhanga

- Drika = Prakruta
- Akruti = Madhyam

General Examination

- PR = 80/ min
- BP = 120/90 mm of Hg
- RS = Clear, AE = BE
- CVS = S1, S2 Normal
- CNS = Conscious, Oriented
- P/A = Soft, No tenderness
- Prakruti = Vatapradhana Pitta Prakruti
- Koshta = Krura koshtha
- Occupation Farmer

Past History

H /O-No any major disease illness

But patient had lost his mother and he was suffering from mental stress.

Treatment

In every disease Samprpati bhanga is very important for Chikitsa.

Table 2: Samprapti b		
Nidana Parivarjanam	It is important Chikitsa in every disease. It is a first line of treatment. Due to this 50% of the causes are reduced.	
Agni Chikitsa	Aampachana ➡ Rasadhatu Poshana ➡ Shukra Dhatu Poshana ➡ Mild Kshinashukra Lakshanas.	
Satvavajaya Chikitsa [11]	This helps in controlling Manas (Mind) away from Ahita artha (distractible, unwholesome objects / thoughts / perceptions). It is very important Chikitsa for Manasika Swasthya. In this Chikitsa, Councelling, daily Ashwasana Chikitsa about patients illness, Pranayama, Yoga, Meditation, etc. are used to relieve mental stress, Chinta, Shoka & Bhaya.	
Shodhana Chikitsa		
Basti		
Poorvakarma	 Snehana: Chandana bala lakshadi Taila Swedana: Dashmoola, Nirgundi patra, Shigru patra, etc. Bashpa swedana given. Pradhana Karma -in shodhana chikitsa, Basti is given. As it is helps for Mala Shodhana from the body and it helps to improve Apana Vayu Karma. (causes Shukra Pravartana). Yapana Basti is given for increasing Virya, Bala & Mansa. Mustadi Yapana Basti [12]: it helps to increase Shukra, Mansa & Bala. It is one of the type of Rasayana Basti. It is given for 8 days. Sahacharadi Anuvasana Basti [13]: it also helps to increase Virya, Varna & Bala. 	
Shirodhara [4]	It is done with the Jatamansi siddha taila. For 7 days. Helps to relieve Stress, Chinta, Shoka, For Samyaka Nidra & Indriya prasadana.	
Nasya	Anutaila used for the Nasya. Given for 7 days.	
Shamana Chikitsa	Aampachaka Vati [15] – For Dipana & Pachana. 500 mgm two tablets two times after meal. Given for 3 days. Snehapana : 'Phalaghrita' [16] – 10 ml OD, early morning with warm water in empty stomach. Vrushya Yoga [17]: it includes Ashwagandha, Shatavari, Sharkara, Musali, Vidari, Gokshur Churna. Matra of Vrushya Yoga is 10 gm with Dugdha anuapana.	

	Avipattikara Churna [18]: For Vata-Anulomana.5 gm churna given at the time of bed. (Nishakale).
Pathya-Apathya	Pathya – Snigdha ahara, ghrita, taila, godhuma, dugdha, masha, draksha, Aamalaki,
	Samyaka Nidra, etc.
	Apathya - Ruksha ahara, stress, chinta, bhaya. Shoka, Vega dharana, Ratrijagarana,
	Divaswapa, heavy work etc.

Table 3: Tretment result

Symptoms	Before Treatment	After Treatment
Dourbalya	+++++	++
Mukhashosha	++++	+
Sadanam / Angasada	++++	+
Chinta, Shoka	+++++	++

+ = Mild, ++ = Moderate, +++ = Severe

After the complete treatment of 30 days, there is relief in the complaints of Shukra -Avisarga, Klaibya, Malabaddhata and Anidra. In the examination of total sperm count before treatment it was 18 million / ml & Motility was 30 % and after treatment it was 65 million / ml & Motility was 52 %.

Results

Semen Examination

The total sperm count which was 18 million/ml + Sperm Motility 30 % at the beginning of the course of Shodhana and Shamana Chikitsa increased to 65 million / ml + Sperm Motility 52 % after completion of treatment.

Discussion

Oligospermia or synonymously Oligozoospermia is a condition in which sperm count is reduced. WHO describes the condition as the one in which total sperm count will be less than 20 million / ml [19]. In this study, observations was done before and after treatment based on symptoms and through the investigations. Due to the proper

Shodhana Chikitsa

Mustadi Yapana Basti

It is one of the Rasayana ad it increases Shukra, Mansa, Bala.

Sahacharadi Anuvasana Basti

It helps to increase Bala, Mansa & Virya.Bastikarma is indicated in vatavikara 15 and it also enriches shukra. 16 Yapan basti maintains dhatusamya and it increases low level of shukra and improves vitility, vigor and lifespan of individual.

Shirodhara

Shirodhara helps to reduce the Chinta, Shoka and bhaya. As in today's era Manasika

hetus are also important cause in the disease formation.

Nasya

Nasya also helps to relieve Stress, provides proper sleep.

Shamana Chikitsa

Aampachaka Vati

It is given for Agni Dipana & Aama Pachana. Because Chikitsa of Agni is very important. As Agnimandya causes various diseases.

Phalaghrita

It is indicated for Vandhyatva in both male and female. Also, it is snigdha it is best for increased rukshata as found in the patient.

Vrushya Yoga

(Ashwagandha, Shatavari, Musali, Sharkara, Vidari, Gokshura, Ghrita, and Taila): all drugs work as Vrushya and helps in Shukra Shodhana. They act on Neuro endocrineimmune system. Also reduces Stress.

Avipattikar Churna

It is used for the Vata – Anulomana. Also helps to balanced Agni and proper Apana Vayu nirharana.

Conclusion

In this case all complaints like Dourbalya, Mukha Shosha, Angamarda, Klaibya, Shukra-Avisarga, Malabaddhata, Chinta, Shoka & Anidra are markedly diminished in the management of 30 days. In conclusion Shodhana Chikitsa - Mustadi Yapana Basti, Sahacharadi Anuvasana Basti, Shirodhara, Nasya and Shamana Chikitsa are significantly effective in Kshina-Shukra (Oligospermia), followed by proper Pathya-Apathya.

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NEPHROTIC SYNDROME IN PEDIATRICS WITH AYURVED APPROCH

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ABSTRACT

Childhood nephrotic syndrome is not a disease in itself; rather, it is a group of symptoms that

- indicate kidney damage—particularly damage to the glomeruli, the tiny units within the kidney where blood is filtered
- result in the release of too much protein from the body into the urine
- When the kidneys are damaged, the protein albumin, normally found in the blood, will leak into the urine. Proteins are large, complex molecules that perform a number of important functions in the body.
- The two types of childhood nephrotic syndrome are
- primary—the most common type of childhood nephrotic syndrome, which begins in the kidneys and affects only the kidneys
- secondary—the syndrome is caused by other diseases

A health care provider may refer a child with nephrotic syndrome to a nephrologist—a doctor who specializes in treating kidney disease. A child should see a pediatric nephrologist, who has special training to take care of kidney problems in children, if possible. However, in many parts of the country, pediatric nephrologists are in short supply, so the child may need to travel. If traveling is not possible, some nephrologists who treat adults can also treat children.

The kidney are two bean-shaped organs, each about the size of a fist. They are located just below the rib cage, one on each side of the spine. Every day, the kidneys filter about 120 to 150 quarts of blood to produce about 1 to 2 quarts of urine, composed of wastes and extra fluid. Children produce less urine than adults and the amount produced depends on their age. The urine flows from the kidneys to the bladder through tubes called ureters. The bladder stores urine. When the bladder empties, urine flows out of the body through a tube called the urethra, located at the bottom of the bladder. Kidneys work at the microscopic level. The kidney is not one large filter. Each kidney is made up of about a million filtering units called nephrons. Each nephron filters a small amount of blood. The nephron includes a filter, called the glomerulus, and a tubule. The nephrons work through a two-step process. The glomerulus lets fluid and waste products pass through it; however, it prevents blood cells and large molecules, mostly proteins, from passing. The filtered fluid then passes through the tubule, which sends needed minerals back to the bloodstream and removes wastes.

MATRIALS AND METHODS

DEFINATION

Nephrotic syndrome is a condition that causes the kidenys to leak large amounts of protein in to the urine. This can lead to arrange of problems including swelling of body tissues and a grater chances of catching infection.

CAUSES

While idiopathic, or unknown, diseases are the most common cause of primary childhood nephrotic

syndrome, researchers have linked certain diseases and some specific genetic changes that damage the kidneys with primary childhood nephrotic syndrome.

The cause of secondary childhood nephrotic syndrome is an underlying disease or infection. Called a primary illness, it's this underlying disease or infection that causes changes in the kidney function that can result in secondary childhood nephrotic syndrome. Congenital diseases—diseases that are present at birth can also cause childhood nephrotic syndrome.

Primary Childhood Nephrotic Syndrome

The following diseases are different types of idiopathic childhood nephrotic syndrome:

• **Minimal change disease** involves damage to the glomeruli that can be seen only with an electron microscope. This type of microscope shows tiny details better than any other microscope. Scientists do not know the exact cause of minimal change disease.

Minimal change disease is the most common cause of idiopathic childhood nephrotic syndrome.^[1]

- Focal segmental glomerulosclerosis is scarring in scattered regions of the kidney:
- "Focal" means that only some of the glomeruli become scarred.
- "Segmental" means damage affects only part of an individual glomerulus.
- **Membranoproliferative glomerulonephritis** is a group of disorders involving deposits of antibodies that build up in the glomeruli, causing thickening and damage. Antibodies are proteins made by the immune system to protect the body from foreign substances such as bacteria or viruses.

Secondary Childhood Nephrotic Syndrome

Some common diseases that can cause secondary childhood nephrotic syndrome include

- diabetes, a condition that occurs when the body cannot use glucose—a type of sugar—normally
- IgA vasculities, a disease that causes small blood vessels in the body to become inflamed and leak hepatites, inflammation of the liver caused by a virus
- human immunodeficiency virus (HIV), a virus that alters the immune system
- Lupus an autoimmune disease that occurs when the body attacks its own immune system
- malaria, a disease of the blood that is spread by mosquitos
- streptococcal infection, an infection that results when the bacteria that causes strep throat or a skin infection is left untreated

Other causes of secondary childhood nephrotic syndrome can include certain medications, such as aspirin, ibuprofen, or other nonsteroidal anti-inflammatory drugs, and exposure to chemicals, such as mercury and lithium.

Congenital Diseases and Childhood Nephrotic Syndrome

Congenital nephrotic syndrome is rare and affects infants in the first 3 months of life.^[2] This type of nephrotic syndrome, sometimes called infantile nephrotic syndrome, can be caused by

- inherited genetic defects, which are problems passed from parent to child through genes
- infections at the time of birth

SIGNS AND SYMPTOMS

The signs and symptoms of childhood nephrotic syndrome may include

- edema—swelling, most often in the legs, feet, or ankles and less often in the hands or face
- Albuminuria—when a child's urine has high levels of albumin
- hypoalbuminemia—when a child's blood has low levels of albumin
- hyperlipidemia—when a child's blood cholesterol and fat levels are higher than normal In addition, some children with nephrotic syndrome may have
- blood in urine
- symptoms of infection, such as fever, lethargy, irritability, or abdominal pain
- loss of appetite
- diarrohea
- high blood pressure

COMPLICATIONS

The complications of childhood nephrotic syndrome may include

- **infection.** When the kidneys are damaged, a child is more likely to develop infections because the body loses proteins that normally protect against infection. Health care providers will prescribe medications to treat infections. Children with childhood nephrotic syndrome should receive the pneumococcal vaccine and yearly flu shots to prevent those infections. Children should also receive age-appropriate vaccinations, although a health care provider may delay certain live vaccines while a child is taking certain medications.
- **blood clots.** Blood clots can block the flow of blood and oxygen through a blood vessel anywhere in the body. A child is more likely to develop clots when he or she loses proteins through the urine. The health care provider will treat blood clots with blood-thinning medications.
- high blood cholesterol. When albumin leaks into the urine, the albumin levels in the blood drop. The liver makes more albumin to make up for the low levels in the blood. At the same time, the liver makes more cholesterol. Sometimes children may need treatment with medications to lower blood cholesterol levels.

DIAGNOSIS

A health care provider diagnoses childhood nephrotic syndrome with

- a medical and family history
- a physical exam

- urine tests
- a blood test
- ultrasound of the kidney
- kidney biopsy

Medical and Family History

Taking a medical and family history is one of the first things a health care provider may do to help diagnose childhood nephrotic syndrome.

Physical Exam

A physical exam may help diagnose childhood nephrotic syndrome. During a physical exam, a health care provider most often

- examines a child's body
- taps on specific areas of the child's body

Urine Tests

A health care provider may order the following urine tests to help determine if a child has kidney damage from childhood nephrotic syndrome.

Dipstick test for Albumin -. A dipstick test performed on a urine sample can detect the presence of albumin in the urine, which could mean kidney damage. The child or a caretaker collects a urine sample in a special container. For the test, a nurse or technician places a strip of chemically treated paper, called a dipstick, into the child's urine sample. Patches on the dipstick change color when albumin is present in urine.

Urine albumin -creat ratio-. A health care provider uses this measurement to estimate the amount of albumin passed into the urine over a 24-hour period. The child provides a urine sample during an appointment with the health care provider. Creatinine is a waste product filtered in the kidneys and passed in the urine. A high urine albumin-to-creatinine ratio indicates that the kidneys are leaking large amounts of albumin into the urine.

Blood test--involves drawing blood at a health care provider's office or a commercial facility and sending the sample to a lab for analysis. The lab tests the sample to estimate how much blood the kidneys filter each minute, called the GFR, or eGFR. The test results help the health care provider determine the amount of kidney damage. Health care providers may also order other blood tests to help determine the underlying disease that may be causing childhood nephrotic syndrome.

Ultrasound of the Kidney

Ultrasound uses a device, called a transducer, that bounces safe, painless sound waves off organs to create an image of their structure. A specially trained technician performs the procedure in a health care provider's office, an outpatient center, or a hospital. A radiologist—a doctor who specializes in medical imaging—interprets the images to see if the kidneys look normal; a child does not need anesthesia.

Kidney Biopsy

Kidney Biopsy- is a procedure that involves taking a small piece of kidney tissue for examination with a microscope. A health care provider performs the biopsy in an outpatient center or a hospital. The health care provider will give the child light sedation and local anesthetic; however, in some cases, the child will require general anesthesia. A pathologist—a doctor who specializes in diagnosing diseases—examines the tissue in a lab. The test can help diagnose childhood nephrotic syndrome.

When the health care provider suspects a child has minimal change disease, he or she often starts treatment with medications without performing a biopsy. If the medication is effective, the child does not need a biopsy. In most cases, a health care provider does not perform a biopsy on children younger than age 12 unless he or she thinks that another disease is the cause.

TREATMENT

Health care providers will decide how to treat childhood nephrotic syndrome based on the type:

- primary childhood nephrotic syndrome: medications
- secondary childhood nephrotic syndrome: treat the underlying illness or disease
- congenital nephrotic syndrome: medications, surgery to remove one or both kidneys, and transplantation.

• Primary Childhood Nephrotic Syndrome

Health care providers treat idiopathic childhood nephrotic syndrome with several types of medications that control the immune system, remove extra fluid, and lower blood pressure.

• **Control the immune system.** Corticosteroids are a group of medications that reduce the activity of the immune system, decrease the amount of albumin lost in the urine, and decrease swelling. Health care providers commonly use prednisone or a related corticosteroid to treat idiopathic childhood nephrotic syndrome. About 90 percent of children achieve remission with daily corticosteroids for 6 weeks and then a slightly smaller dose every other day for 6 weeks.^[2] Remission is a period when the child is symptom-free.

Many children relapse after initial therapy, and health care providers treat them with a shorter course of corticosteroids until the disease goes into remission again. Children may have multiple relapses; however, they most often recover without long-term kidney damage.

When a child has frequent relapses or does not respond to treatment, a health care provider may prescribe other medications that reduce the activity of the immune system. These medications prevent the body from making antibodies that can damage kidney tissues. They include

- cyclophosphamide
- mycophenolate (CellCept, Myfortic)
- cyclosporine
- tacrolimus (Hecoria, Prograf)

A health care provider may use these other immune system medications with corticosteroids or in place of corticosteroids.

- **Remove extra fluid.** A health care provider may prescribe a diuretic, a medication that helps the kidneys remove extra fluid from the blood. Removing the extra fluid can often help to lower blood pressure.
- Lower blood pressure. Some children with childhood nephrotic syndrome develop high blood pressure and may need to take additional medications to lower their blood pressure. Two types of blood pressure-lowering medications, angiotensin-converting enzyme inhibitors and angiotensin receptor blockers, have the additional benefit of slowing the progression of kidney disease. Many children with nephrotic syndrome require two or more medications to control their blood pressure.

Secondary Childhood Nephrotic SyndromE

Health care providers treat secondary childhood nephrotic syndrome by treating the underlying cause of the primary illness. For example, a health care provider may treat children by

- prescribing antibiotics for an infection
- adjusting medications to treat lupus, HIV, or diabetes
- changing or stopping medications that are known to cause secondary childhood nephrotic syndrome While treating the underlying cause, the health care provider will also treat the child to improve or restore kidney function with the same medications used to treat primary childhood nephrotic syndrome.

Caretakers should make sure that children take all prescribed medications and follow the treatment plan recommended by their health care provider.

Congenital Nephrotic Syndrome

Researchers have found that medications are not effective in treating congenital nephrotic syndrome, and that most children will need a kidney transplant by the time they are 2 or 3 years old. A kidney transplant is surgery to place a healthy kidney from someone who has just died or a living donor, most often a family member, into a person's body to take over the job of the failing kidney. To keep the child healthy until the transplant, the health care provider may recommend the following:

- albumin injections to make up for the albumin lost in urine
- diuretics to help remove extra fluid that causes swelling

- antibiotics to treat the first signs of infection
- growth hormones to promote growth and help bones mature
- removal of one or both kidneys to decrease the loss of albumin in the urine
- dialysis to artificially filter wastes from the blood if the kidneys fail

PREVENTION

Researchers have not found a way to prevent childhood nephrotic syndrome when the cause is idiopathic or congenital.

Eating, Diet, and Nutrition

Children who have nephrotic syndrome may need to make change to their diet such as

- limiting the amount of sodium, often from salt, they take in each day
- reducing the amount of liquids they drink each day
- eating a diet low in saturated fat and cholesterol to help control elevated cholesterol levels Parents or caretakers should talk with the child's health care provider before making any changes to the child's diet.

AYURVED ASPECTS

According to Ayurveda Nephrotic syndrome is caused by the blockage of minute body channels called as strotas in kidney .The body channels known as Mutravaha Strotas carry urine and responsible for the flow of liquid in to out of the kidney .If there are blockages in the incoming strotas the kidney are denied fluids and srinkage occurs and if the outgoing channels are blocked ,swelling occurs.

As per Ayurveda there are 3 doshas -Vata, Pitta,Kapha disease caused due to the vitiation of pitta dosha treatment includes medication for normalizing pitta dosha.

TREATMENT

Ayurvedic treatment for Nephrotic syndrome have specific herbs which directly effect on the kidney cell to improve their function to stop the Auto-immune and anti-inflammatory pathology and to regenerate the new normal cell.

PUNARNAVA-Specific action on the heart it increases the output of blood from the heart .It also increases the circulation of blood to the kidney thus reviving kidney from may disease like renal failure ,nephrotic syndrome and GFR and others.

GOKSHURU-It is the best genitu urinary tonic and giving the strength to the kidney, urinary bladder, ureter and penis by increases the blood circulation.

RAKTCHANDAN-Diuretic and Anti infective also act as urine alkalizer.

PALAASH-It act as urine alkalizer GOKSHURADI GUGGUL-It is the combination of various herbs for diseased kidney and they improve the renal function at all levels.

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<u>Review Article</u>

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PANCHAKARMA AND ITS APPLICATION IN PEDIATRICS PRACTICE- A REVIEW ARTICLE

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ABSTRACT

Amavata is the most commonly observed *vaatavyaadhi* which mainly affects *sandhi* to produce *ruja* and *shopha*. In this disease, vitiated *vata* along with *kapha* gets *sthaanasamshraya* in *sandhi* to produce different *lakshanas*. *Gulpha Sandhi* is a kora variety of *chala sandhi* and one of the most important Sandhi of the lower extremities as it is mainly associated with locomotion and equilibrium of our body weight and help in walking. *Gulpha* sandhi in our body are two in number, which is present in between pada and *jangha*. The ankle joint present at the junction of leg and foot can be under- stood as the same. *Amavata* is a disease in which vitiation of *Vata Dosha* and accumulation of *Ama* take place in joints, which simulate rheumatoid

arthritis (RA). Localized ama gets in the body tissue or joints, it can lead to production of pain, stiffness, swelling, tenderness, etc., in the related joints. Rheumatoid arthritis (RA) is a systemic inflammatory condition that results in cartilage and bone destruction. It is characterized by a typical pattern and distribution of synovial joint involvement.

KEYWORDS: Gulpha sandhi, Manibandha, Amavata, mamsa peshi, Snay.

INTRODUCTION

Considering *Sharirik and Manshik* approach ayurveda explains the treatment for various disorders. *Sharir Shodhana* is one in all the modalities of treatment which is best for uprooting the disease from the basis itself. Pathophysiology of disease mainly involves disturbances of three *Doshas* (*Vata, Pitta, Kapha*) thus *doshic* balance is extremely important for retaining healthiness. Panchakarmas are indicated in children alt- hough cohort isn't

specific. Same was explained by *Acharya Kashyapa* that it is often administered in mod- erate or the minimum level by contraindicating excess *Apatarpana* and bloodletting as *Shodhana treatment*.^[1]

Panchakarma includes *Vaman*, *Virechan*, *Basti*, *Nasya and Raktamokshan* as it is mainly for cleansing the body toxins to achieve balanced state of body that facilitates rejuvenation.^[2]

Ayurveda considers that the cleansing of the body is significant before the commencement of any interven- tion by Ayurveda. According to basics of Ayurveda the *doshas* i.e. *vata, pitta and kapha* are principal func- tional components of body. They run all activities hap- pening in organs, channels and tissues of our physical body. If *doshas* get disturbed by any means i.e. *Ahar, Vihar* as and many diseases get manifested. These im- balanced *doshas* should be expelled out to protect body from further pathological happening of disease from the body. Vitiated *doshas* can be expelled by adminis- tering *Panchakarma* therapy. Aim & Objectives:

- To elaborate the *Panchakarma* and to study the sig- nificance of *Panchakarma* Therapy in Paediatrics.
- 2. To study the applied *Panchakarma* procedure in children and their benefits.

METHODS

A critical review done from Ayurvedic treatise like Sushrutsamhita, Charak Samhita, Astanghruday, and Kashyapa Samhita.

Panchakarma in Balroga

The basic pre requirement - (*Purva Karma*) involves *Deepan* and *Pachan* (Admin- istering oral medicines to improve digestion in order to enhance Agni), *Snehan* (Oleation) and *Swedan* (Hot fo- mentation).^[3] *Panchakarma* procedures (*Pradhan Karma*) such as *vaman, virechan, basti* etc. are per- formed to flush out toxins from the body from the near- est tract either through mouth or anus.^[4] After this pro- cedures, precautions and diet regimen are advised (*Pashchat Karma*) to prevent any further complications to obtain desired results and also to bring back the pa- tient's body to normal lifestyle5. The five therapies which include *Panchakarma* are –

- 1. Vamana therapeutic emesis
- 2. Virechana therapeutic purgation
- 3. Niruha / Asthapana Basti decoction enemas
- 4. Anuvasana Basti oil and ghee enemas, unctuous enemas

5. Nasya – nasal medication

Acharya Sushruta has considered blood as fourth *dosha* and mentioned *raktamokshana* i.e. bloodletting as one among five *Panchakarma* measures.

Application of *Panchakarma* **therapy in Paediatrics:** Childhood is very decisive period where teen pick up growing and development with respect to physical, mental and social aspect. *Panchakarma* measures are similarly effective in a paediatric patient as they are done in adults; only precaution should be taken in the prevention of complications. To some extent the alter- ations in the *Panchakarma* with regards to Paediatric practice has been explained in the classics.

Panchakarma therapy

Deepana and Pachana (Purva Karma)^[6]

Niramavastha of doshas should be there before any panchhakarma procedure with the help of deepana and pachana. For *Deepan* purpose, hot water boiled with piece of dry gin- ger or dry coriander can be used in paediatric patient, water should be warm and can be given in small quan- tity initially, it relieves *ama* (toxic accumulation) at the level of *koshta* (abdomen). It also help in making *Agni* proper in children.

Snehana (Oleation)^[7]

Oleation is nothing but snehana of the body by using medicated oils and ghee internally and externally which is actual essential prior to any *Panchakarma* procedure. *Ghritha, Taila, Vassh, Majja* are explained as a major *Snehana* constituents and more importance has been given to *Ghruta* for *Snehan* in children. *Snehapana* is given to the patient early in morning in the prescribed dose. The dose of *Sneha dravya* can be assessed by ascertaining *agnibala* (digestive power) of the patient, nature of disease, condition of the body. *Snehapana* continue up to *samyaka snigdha lakshanas*(symptoms of desired oleation) are observed and usu- ally it is obtained within 3 to 7 days.

Indications	Contraindications
Hikka (Hiccough)	Chardi vomitting), Atisara(Diarrhoea),
Krisha balak (Emaciated child)	jvara(fever),galamaya(throat disorder)
Vatarogas (hemiplegic, cerebral palsy)	Kaphaja vikara- sthoulya (obesity) Raktapitta
Rukshata (Roughness all over body)	(Bleeding disorders)
Prior to panchakarma (bio-cleansing	Kshirad avastha(breastfeed babies),chardi
therapy)	(vomitting)

Table 1: Indications and contraindications of *snehana*.^[8]

Swedana (Sudation)^[9,10]

It is a procedure where sweating (sudation) induced artificially by which it relieves heaviness, stiffness and coldness of the body. *Acharya Kashyapa* explains eight types the *Swedana* methods in the childhood *Pan- chakarma* practice with prodigious importance. *Types of swedan* are *hast, pradeha, nadi, prastara, sankar, upnaha, avgaha* and *parisheka*.

According to *Acharya Kashyapa, Hastha Sweda*, and *Pata Sweda* are very useful in neonates and infants es- pecially in abdominal colic. *Nadi Sweda, Prasthara, Sankara, Pradeha, Upanaha, Avagaha, Parisheka* are other types which are practically applicable in children.^[11]

Shashtika Shali Pinda Sweda^[12]

This is the general method of *swedana* used in paediat- ric patients in which specific part or whole body made to sweat by the application of *shashtika shali* (a variety of rice) in the form of *pottalis* (boluses tied in a cotton cloth). *Shashtika shali* is cooked with milk and decoction of *dashamoola*. This cooked rice is to be kept in pieces of cloth to make *pottalis* (boluses tied in a cotton cloth).

Table 2:	Indications	and cont	traindicati	ions of sw	edana. ¹¹³

Indications	Contraindications
After snehana and prior to panchakarma	<i>Dagdha</i> (burnt), Acute fever, <i>Kamala</i> (jaundiced)
Vata rogas (hemiplegic, cerebral palsy)	Pittarogi, madhumehi (diabetic)
Jadya, kathinya and ruksha sharira (heaviness,	Chhardi (Vomiting), Trishna (dehydrated)
stiffness, dry- ness of body)	Karshya (emaciated)
Shwas (asthma), kasa (cough), pratishyaya	Hridaya Rogas (Cardiac Diseases),
Rheumatic and degenerative conditions	Raktapitta (Bleeding disorders)
Obstruction to Mala(stool), Mutra (urine) and	Vichaget (noisonad)
Shukra (semen)	Vishsart (poisoned)

Vaman^[14]

Bala is the stage with delicate body and mind with dominance of the *Kapha* hence the *Mridhu Vamana* with full stomach milk or breast milk followed by phys- ical stimulation of

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[13]

L

the throat has been indicated. Indi- cations of *Virechana* should be substituted by Basti, similarly *Marsha Nasya* by *Pratimarsha*. Acharya Kashyapa mentioned that, babies who emit vi- tiated milk from stomach repeatedly will never suffers from diseases. When baby takes first breath Acharya advised that baby should be undergone the process of *Garbhodaka Vamanam* using *Saindhava* and *Ghrita*. In other contest he told that those babies are vomiting the milk after breast feed, never suffers with the disease due to expulsion of excessive *Kapha Dosha*.^[15]

Indications	Contraindications
Gastric problems - <i>ajeerna</i> (indigestion)	Acute peptic ulcer
Peenasa (Sinusitis)	Bala (young children)
Madhumeha (Diabetes),	Hridroga (Cardiac disorders)
Unmada (Schizophrenia),	Shranta (Exhausted)
Kushtha (Skin diseases)	Pipasita (Thirsty)
Kasa (Cough), Shwasa (bronchial Asthma)Kshudhita (Hungry)
Shlipada (Filariasis)	Atikrisha (Emaciated body)

 Table 3: Indications and contraindications of vamana.

Vamana dravya used in Paediatrics

Vamana is indicated in child just after birth as *Garbhodaka*. *Vamana* can be done by administrating *Vacha* (*Acorus calomus*) and *Saindhava Churna*. In *ksheerad* child, *Vamana Sadhya* diseases, *Vamana* could be done with *Madanaphala* on nipple along with areola i.e. dose of *Madanaphala* should not be more than that. Indication of *Vamana* is in baby above the age of five year.

Virechana^[17]

Normally, *Virechana* should not be given to children, if it's necessary, it can be used as a last option; if all other measure failing to cure the disease. This procedure should be administered with extreme caution as there lays a potent danger of dehydration which the children more prone. One can utilise *mridu verech- noushadha* as *trivritta, chaturangula* can be logistically used. The *Vega* of *Virechana is* 2, 3, and 4, in place of 10, 20, and 30 for adult *Kanistha, Madhyama, and Ut- tama* respectively. It is proved that *Virechana* is best for *Pittaja* disorders and imparts the clarity of *Indriyas* (sense organs) and good for ensuring the growth and development of the child. It also enhances the func- tional capacity of the child by purifying the *Amashaya* and *Paskwashaya* by regularising the bowel habits. However, *Virechana* is better avoided in children ex- cept in the emergencies and substituted by *Basti. Virechana* in case administered, should be given at least fifteen days after the *Vamana* by

satisfying all the prerequisites.

Indications	Contraindications
Tamak Shwasa (Bronchial Asthma), Eczema, Allergic	Navajwara (Acute fevers)
dermatitis etc.	
Pakshaghat (Hemiplegic), Madhumeha (Diabetes), Arbuda	Krisha (Emaciated patients) Rajayakshma
(Tumour),	(Tuberculosis)
Krimi (Worm infestation), Kamala (Jaundice),	Garbhini (Pregnant women)

Table 4: Indications and contraindications of *Virechana*.^[18]

Basti^[19,20]

In childhood clinical practice *Basti* acts just like the *Amrita* (nectar). *Basti* can be administered to one-year baby. *Basti* is the procedure where the medicines in suspension form are administered through rectum or genitourinary tract using *Basti yantra* (enema can or specific apparatus). The *Niruha Basti* can cause the *Karshana* in child which leads to the poor develop- ment, *Acharya Kashyapa* told the *Anuvasana Basti* or *Basti* in which oil more than quantity of *kashaya* should be used. In *Vata dosha* elimination and diseases where there is association of *Vata, Basti karma* should be used.

Table 5: Indications and contraindications of Basti.

Indications	Contraindications
Amavata (Juvenile Rheumatoid Arthritis)	Amatisara (acute diarrhoea)
Vata rog (hemiplegic, muscular dystrophy)	Kasa (Cough), Shwasa (Asthma)
Rajonash (Secondary Amenorrhea)	Chhardi (Vomiting)
Jeerna jvara (Chronic Fever)	Krisha(Emaciated body)
Ashmari (kidney stone, bladder stone)	Madhumeha (Diabetes)
Niram atisar (chronic diarrhoea)	Shoona Payu (Inflamed Anus)
(cerebral palsy, delayed milestones)	Kritahara (Immediately after taking food)

Commonly used Basti Yogas: Madhutailika Basti, bala guduchyadi Basti, patolanimbadi Basti, vaitarana Basti, mustadi yapana basti, tikta kshira basti.

Nasya^[21]

Process of administration of medicines through nostrils is called Nasya. It is indicated mainly in aggravated and accumulated *doshas* (disease causing factor) of head and neck. *Kashyapa* has stated two types of *nasya*; namely *Brimhana nasya* (nourishing) and *Karshana Shodhana nasya* (cleansing). *Nasya* karma is mainly proposed to clean the channels in the head and neck region. The aggravated *kapha dosha*, which usually blocks the upper respiratory tract, is eliminated with the help of nasal instillation of herbal. juices, oils, or powders. During *nasya* the patient should sit or lie down in a comfortable posture, then applied gentle massage over

the head, forehead and face followed by mild *swedana*. *Nasya* cures certain childhood disorders like *Trishna*, *ShiroRoga*, *Pippasa* etc.

DISCUSSION

Panchakarma can be very carefully implemented in *Swatantrav Bala*(healthy Child) or independent child by considering *Bala*, *Desha*, *Kaala* etc. Here the *Swa- tantra Bala* refers to that child who does not require any assistance in its day to day activities like eating, talking, walking, and explaining good and bad suffering during the course of treatment, while *Paratantra* who is de- pends on parents or care takers for its day to day activ- ities is not fit for the same.^[22]

Snehan karma pacifies *vata*, regularise bowel move- ments, and improves digestion, strength and complexion. *Swedana* is quite beneficial in removing the stiff- ness of the body, heaviness, body contractures, pain, constipation *Vakgraha, Alasaka* and other *Vata Kaphaja* disorders. In *Vatapradhana Rogas, Snigda Sweada* while in *Kapha Pradhana rogas* the *Ruksha Sweda* is indicated.^[23] It is well known fact that *Virechana* is best for *Pittaja* disorders and imparts the clarity of *Indriyas* (sense organs) however keeping in mind the power and complication of *Virechan* one should avoid in Child unless necessary. In childhood clinical practice *Basti* will have very better results and act as *Amrut* in child.

CONCLUSION

Panchakarma acts as preventive as well as curative measure and improves the body immunity thus helps to maintain good mental and physical health status through detoxification and rejuvenation. Panchakarma therapy can be beneficial in children as a comprehensive cure for many diseases because it made the equilibrium of Dosha when it is used with precaution and scientific rationale.

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REVIEW ARTICLE

A Literary Review of Paapkarm / Sinful Deeds with Special Reference to Ayurveda

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Abstract: Immoral acts conducted by humans are considered to be Paapkarma / Sinful deeds).Pradhnyaparadh causes Paapkarma. Paapkarma is said to be a Adrushtahetu for various disorders. If human beings conduct is unrighteous, it affects the environment. This leads to seasonal disturbances which causes the deformation of medicine, water and air, and causes various diseases. It spreads negativity in the environment which has a harmful impact on human body. This is an example of 'Lok Purush Samya Siddhant'. Paapkarma or sinful deeds lead to reduction of immunity, increase in diseases and shortening of average life expectancy. To avoid this, it is necessary to understand Paapkarma which is described in Ayurveda. Satvavajayachikitsa is the main chikitsa to prevent Paapkarma as well as to cure diseases occurred by it .This article provides information and solution about Paapkarma.

Keywords: Paapkarma, Pradhnyaparadh, Satvavajayachikitsa.Article Received: 22 Jan. 2021Revised: 11 Feb. 2021Accepted: 24 Feb. 2021

Introduction

According to Acharya Sushrut, a person is called a healthy person or Swastha in whom dos has must be in equilibrium, Agni must be in a balanced state, Dhatu-Malamust work in a normal state, the Indriya (sensory and motor organs), mind and Atma must be in a pleasant state [1] It is essential to protect health for staying healthy which is the first purpose of Ayurveda. There are many measures described in Ayurveda for the protection of health as well as to cure the diseases when they occurred.

For Example

- To follow Dincharya (Daily regimen)
- To follow Rutucharya (Seasonal Regimen)
- To follow Achar Rasayan

- To follow Rasayanchikitsa
- To follow Sadvrutta
- To follow Aahar vidhi vidhan
- Panchakarma chikitsa (Yuktivavyapashraychikitsa)
- Daivavyapashraychikitsa etc.

While describing the Dincharva, AcharyaVagbhata has mentionedten Paapkarma (ImmoralActs or sinful deeds) occurred by the body, speech and mind. These Paapkarma are troublesome. Therefore, it is said that they should be renounced from body, speech and mind [2]. Actions that are against Dharma are called Adharma. Dharma produces virtue and Adharma produces sins. Both are related to body, speech and mind [3].

Undesirable deeds cause Paapkarma. Therefore, intellect and thoughts are also corrupted.As a result, bad deeds and various ailments also arise. While mentioning Dharaniya Vega, Acharya Charak says that, one desirous of his wellbeing during his lifetime and after should suppress urges relating to rashness and evil deeds mentally, orally and physically [4].

The threefold alternative of Karma (i.e. Avog. Atiyog and mithyayog) is calledPradhnyaparadh (Intelectual error) [5]. Dashvidha Paapkarma described by Acharya Vagbhata and wrong utilisation with regards to body, mind and speech (i.e. Mithyayog of body, mind and speech) described by Acharya Charak seems to be similar. At present, the entire world is living under the threat of Covid-19 pandemic. This situation emerging and spreading is due to Pradhnyaparadh.

To eradicate it, one has to follow the code of conduct along with medical plans mentioned in Ayurveda. Pradhnyaparadh is the root cause of sharirik, manasik and agantujdisorders. Therefore, it is necessary to study Pradhnyaparadh, Paapkarma and the line of treatment for diseases occurred due to them.

Aim

Toreview Paapkarma from Ayurvedic samhitas.

Material and Methods

- Charak, Sushrut and Vagbhat Samhitas have been reviewed.
- Online references have been reviewed.

Review of Literature

Review of Paap/Paapkarma

Etymology (Nirukti)

पातिरक्षतिअस्मादात्मानमिति।(इत्यमरः)

Sin is what we want to protect ourselves from. Paapakarma means behaviour that produces evil karma, action that results in misery, conduct that is harmful to the individual and society. Misconduct, iniquity means Paapkarma (sinful deeds). The Karma that degrades spiritual and social values as well as destroys economic and natural resources is Paap/ sinful Karma. A person who commits in is called a Sinner or a criminal. Just as it is also a sin to do irresponsible deeds, it is also a sin not to do obligatory deeds [6].

Synonyms (Paryaya)

पङकम्, पाप्मा,किल्विषम् , कलुषम्, दुष्कृतम्(इत्यमरः)

पातकम् , पापकम्, शल्यम् (शब्दरत्नावली)

Acharya Vagbhata has described ten **Paapkarma**.

हिंसास्तेयान्यथाकामं पैशुन्यं परुषानृते||

सम्भिन्नालापं व्यापादमभिध्यां दृग्विपर्ययम्।

पापं कर्मेति दशधा कायवाङ्मनसैस्त्यजेत्]|A.H.s.a.2| 21,22 ; A.S.s.a.3/54

Hinsa, Steya, Anyathakama, Paishunya, Parush, Anrut, Sambhinnalap, Vyapad, Abhidhya and Drukviparyay are the ten Paapkarma. One should avoid these physically, orally and mentally. Acharya Arundatta in his 'Sarvanga Sundara' commentary mentioned that,out of ten Paapkarma Hinsa, Steya and Anyathakama are Kayik Paapkarma (physical sinful deeds) Paishunya, Parush, Anrut, Sambhinnalap are Vachik Paapkarma (sinful deeds by speech), Vyapad, Abhidhya and Drukviparya are Manasik Paapkarma (sinful deeds by mind) [7]. Acharya Gangadhar Roy in his 'Jalpakalpataru' commentary also mentioned Vachik, Kayik and Manasik Paapkarma [8]. References of Paapkarma are also found in some ancient texts.

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कायेनत्रिविधंकर्मवाचाचपिचतुर्विधम्।
मनसात्रिविधंचैवदशकर्मपथांत्यजेत।।
येपापानिनकुर्वन्तिमनोवाक्कर्मबुद्धिभिः।
तेतपन्तिमहात्मानोनशरीरस्यशोषणम।।
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E. g., in Mahabharat Explanation about Dashvidha Paapkarma is stated [9].

Hinsa

It means violence, causing injury to others, killing, hurting or torturing animals, and human beings against the law, hurting others through body, speech and mind.

Steya

It means stealing, robbing, taking or abducting another's substances.

Anyathakam

It means unlawful sex activity. Desire of perceiving objects of senses by improper way is alsoanyathakam.

Paishunyavachan

It means to slander another person or to say bad things about another person.

Parushavachan

It means to speak harsh or unpleasant word.

Anrut vachan

Lying is anrut Vachan.

Sambhinnalap

It meansirrelevant, inadequate speech or speaking at improper time.

Vyapad

Thinking of someone's evil is Vyapad.

Abhidhya

It means not tolerating the good things of others or wishing to grab money etc. of others.

Dhrukviparyay

It means non-belief in the Aptavakya or nonbelief in principles stated in the treaties.

				e commentators	<u> </u>	N 11	<i>a</i> 11
S.N.	Name of paap karm	Arundatta	Hemadri	Indu	Chakrapani	Dalhan	Gangadhar rai
1	a hinsa	हिंसा- प्राण्युपघात	हिंसा-प्राणिवध:	प्राणातिपातः [12]	विधिरहिताप्राणिपी		
		[10]	[11]		डा [13]		
2	steya	स्तेयंचौर्यम् [10]	स्तेयंचौर्यम् [11]	परद्रव्यापहारः [12]	परद्रव्यग्रहणम् [13]		
3	anyat	अन्यथाकामोनिषिद्ध	अन्यथाकामोऽम्या	अगम्यागमनमति [12]	स्त्रीभोगःपरस्त्रीभो		
	haka m	कामसेवा/पशुस्त्रीगुरु दारगमनादि [10]	गमनम् [11]		गः [13]		
4	paish	पैशुन्यंपरेषांभेदकृदव	पैशुन्यंपरस्याऽप्रत्य	परेषांभेदकृदवचनम् [12]	सूचकम् –	पैशुन्यंसूच	सूचकस्यातिशयेन
	unya vacha	ँ चनम् [10]	ू क्षतद्दोषकिर्तनम्	Ŭ	परानिष्टजनकाभि	कता, [16]	परेषामनिष्टजन
	n		[11]		धायकम् [14]	पैशुन्यंसूच	काभिधायकस्य
						कता,	वाक्यस्य [23]
						दौर्जन्यमि	सूचकम्- खलोक्ति
						तियावत्	[24]
						[17]	
5	parus h	परुषममृदुवचनम्	पैशुन्यंपरस्याऽप्रत्य	परुषवचनम्	परोद्वेजकंवचनम्	उद्वेजनंप	परुषस्यपरद्वेजक
	vacha	[10]	क्षतद्दोषकिर्तनम्I	[12]	[14]	रुषवचनैः	स्यकर्कशात्मकस्य
	n		प्रत्यक्षंतुपरुषम्			[18]	वाक्यस्य [25]
			[11]			परुषःकर्क	परुषवचनंकर्कशो
						शः [19]	क्तिः [26]
						परुषवाक्क	
						र्कशवचनम् [20]	
6	anrut	अनृतसत्यवचनम्	अनृतमसत्यम् [11]	असत्यवचनम् [12]	अपार्थकम् [14]	्यम् असत्यम्	मिथ्यात्मकस्यच
	vacha	[10]				[21]	वाक्यस्य [27]
7	n sambh	सम्भिन्नालापोऽसम्ब	सम्भिन्नालापोऽस	2000			
'	innala			असम्बद्धप्रलाश्च [12]	अकालयुक्तम्अप्रश स्तावागतम् [14]	-	अकालवचनंयस्मि नकाले
	р	द्धप्रलपनम् [10]	त्प्रलापः [11]		≮೧।೮।೮೧ೆ ಈ [14]		
							यद्वक्तव्यंतन्नो क्त्वातदितरकालेव
							चनम्
							कलहवचनंस्फूटम्
							अप्रियवचनंकटू चिन्ह
							क्तिः अबद्धवचनमसम्ब
8	Wyana		व्यापादःपरानिष्टचि				न्धवचनम्; [28]
0	vyapa d	व्यापादःप्राण्युपघात चिन्ता [10]		व्यापादःसत्वविद्वेष [12]			द्वेषोवैरंपरापकारे मनःप्रवृत्तिः [29]
9	abhid		न्तनम् [11] अभिष्त्रणपराजणना			56.55	
J	abillu	अभिध्यापरगुणादयस	अभिध्यापरस्वापहर	परस्वापहरच्छा [12]	मनसापराभिद्रोहचि	ईर्ष्यापरस	परस्वविषयकस्पृ

Table1: Meaning of all Paapkarma by some commentators

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	hya	हिष्णुताविषयस्पृहावा	णेच्छा [11]		न्तनं,यदिवापरद्रव्य	म्पत्तावस	हायाश्चवेगानित्य
		[10]			विषयेस्पृहा [15]	हिष्णुता	न्वयः [30]
					समानेद्रव्येपरसम्ब	[22]	
					न्धप्रतिषेधेच्छाई		
					र्ष्या 15		
10	drukvi	दृग्विपर्ययंशास्त्रदृष्टि	द्दग्विपर्ययःआप्तवा	दक्शब्देनाप्तदृष्टोऽर्थउ			मिथ्यादर्शनंनास्ति
	parya	वैपरित्यनास्तिकत्वा	क्येष्वप्रमाणबुद्धिः	च्यतेIमिथ्यादृष्टिश्चIद			क्यबुद्धिः [31]
	y	दि [10]	[11]	ग्विपर्ययःशास्त्रदृष्टिवैप			-
				रीत्यम्नास्तिकत्वमिति			
				यावत् [12]			

Review of Dharaniya Vega (Suppressible Urges)

Acharya Charak has described Dharaniya Vega in SutrasthanaAdhyay 7/26. One desirous of his wellbeing during his lifetime and after, should suppress urges relating to rashness and evil deeds mentally, orally and physically.

Manasik Dharaniya Vega (Suppressible Urges Related to Mind)

A wise person should refrain from satisfying the urges relating to greed, grief, fear, vanity, shamelessness, jealousy, too much of attachment and malice [32].

Vachik Dharaniya Vega (Suppressible Urges Related to Speech)

One should also refrain from letting loose the urges of speaking extremely harsh words,back-biting, lying and use of untimely words [33].

Kayik Dharniya Vega (Suppressible Urges Related to Body)

Violence to others whatsoever, urges related to such physical actions including adultery, theft and persecution are to be restrained [34]. The physical restraint prescribed in the present verse also includes such careless insulting acts like stretching the legs before superiors, etc [35]. Acharya Vagbhata has stated Dharniyavega in Sutrasthan Adhyay 4. For the wellbeing and happiness in both the worlds (Ihalok- in this life and paralokalife in the other world) one should always control the senses(mind and the five sense organs) and also should suppress the urges like greed, jealousy, hatred, envy, anger etc [36].

Review of Karma

Vocal, mental and physical action is the Karma. Acharya Charak has described excessive utilisation (Atiyog), non-utilisation (Avog) and wrong utilisation (Mithyayog) of Karma [37]. Suppression of natural urges, their artificial manifestation, unbalanced slipping, falling and posture, excessive itching etc. of the body, bodily assault, excessive massage, excessive holding of breath and exposing oneself to excessive torture are the examples of wrong utilisation of the body [37]. Examples of wrong utilisation of the body with regard to speech are back-biting, lying, useless guarrels, unpleasant utterance. irrelevant unfavourable talks and harsh talk [37].

Wrong utilisation relating to mind are fear, anxiety, anger, greed, confusion, vanity, envy and misconceptions [37]. Apart from the nonutilisation and excessive utilisation of speech, mind and body, such as their actions which are not conductive to the maintenance of good health in this life nor even to happiness in the life beyond are all to be treated as cases of wrong utilisation. This shows those sinful deeds/Paapkarma are also the causes of diseases. Such sinful deeds are products of wrong utilisation of speech, mind and body and are in their turn causes of diseases [38].

Such wretched human beings, who are of sinful conduct, speech and mind, back-biters, those who are quarrelsome by nature, those who indulge in sarcastic remarks about others, the greedy, those who envy the prosperity of others, the cruel, those who indulge in defaming others, the fickle minded, those who serve the enemy, those devoid of compassion and those who do not follow the virtuous course of life are to be boycotted [39].The virtuous one, who is free from all vices relating to mind, speech and physical actions, is indeed happy and he alone enjoys the fruits of virtue, wealth and desire [40].

Review of Pradhnyaparadh: (Intelectual Error)

The unwholesome action performed by one whose intellect, restraint and memory are deranged is known as Pradhnyaparadh. It vitiates all the doshasSharirik as well as Manasik [41].Three fold actions i.e. relating to speech, mind and body further divided into three categories in the form of nonutilisation, excessive utilisation and wrong utilisation constitute intellectual errors. (Pradhnyaparadh).

Forcible stimulation of natural urges and suppression of manifested ones, exhibition of undue strength, over indulgence in sexual act, negligence of the time of treatment, initiation of action in improper time (i.e. nonutilisation. excessive utilisation and impaired utilisation of therapies), loss of modesty and good conduct, disrespect for respectable ones, enjoyment of harmful objects, resorting to the factors which are responsible for the causation of Madness, moments without any regard for temporal or local propriety, friendship with persons of bad actions, avoidance of the healthy activities (described in su.10/19-28), malice, vanity. fear anger, greed, ignorance, intoxication and be wild erment or bad actions arising out of any of them or other physical evil acts arising out of rajas and constitute tamas intellectual blasphemy/error leading to the causation of various ailments [42].

Intellectual pseudo- conception and improper conduct represent intellectual blasphemy / error. All this falls under the purview of the mind [43]. The sense faculties (Indriya) are capable of perceiving their respective objects (Arth) only when they are motivated by the mind [44].

Principle of Psycho Pathogenesis

The sense faculties get vitiated due to the excessive utilisation, non-utilisation, and wrong utilisation of their respective objects. The vitiated sense faculties, in their turn also vitiate the mind. However, they come to normalcy if the objects are properly utilised and then the perception of various objects properly regulated [45]. are Thinking constitutes the object of the mind. So, the proper utilisation or excessive, on and wrong utilisation of mind or mental faculty is responsible for normal or abnormal mental conditions respectively [46].

It is essential to have a healthy mind for a healthy and happy life. For that Sharirik and Manasik both doshas should be in balanced state. Balanced manasik doshas means backing of raja and tama and increase of satvaguna. In short vitiation of Manasdosha causes Kama, Krodh, Lobha, Irsha etc. which result into Paapkarma.

Review of Disorders Caused By Non-Suppression of Dharaniya Vega/Paapkarma

In Charak Samhita, Acharya Charak described Kayik, Vachik and Manasikdharaniya Vega. He didn't describe ill effects caused by non-suppression of dharaniya Vega in detail. After referring the Samhita, it is observed that Dharniya Vega is the hetus for various disorders.

Table 2: Showing	Dharniya	Vega a	and	disorders	caused	by	non-suppression of Dharaniya
Vega/ Paapkarma							

s.	Dharniya Vega	Disorders caused by non-suppression of Dharaniya Vega/ Paapkarma		
n.				
1	Bhaya (Fear)	Raktadushti,Udakvahsrotodushti, [47],pittajvikar,Swedovahsrotodushti [48],Vatavyadhi, Unmad, [49] Apsmar, Hrudrog, Klaibya, Trushna, Pandu, Shukra&Ojakshay [50],VatajChhardi, [51]Urustambha,Arochak,Atisar [52] etc.		
2	Chinta (Anxiety)	Rasvahsrotodushti [53],Klaibya, Hrudrog, Vatvyadhi, Pandu, ^[54] Stanyarog [55],Ojakshayetc.		
3	Krodh (Anger)	Raktadushti,pittajvikar,Swedovahsrotodushti, Pratishyay,Vatavyadhi, [56]Trushna [57],Twak dosh,Karshya,Vatarakta,Pandu,PittajKaas,Atisar,Shukra- Ojakshay,Stanyarog, Arochak [58]etc.		
4	Shok (Grief)	Raktadushti,Swedovahsrotodushti, vaataj and pittajvikar ,VatajGulma [59],Apsmar,Vatavyadhi,Trushna,Pandu,VatajChhardi,Shukra-Ojakshay,Arochak, Karshya,VatajPrameh,VatajJwar [60],Trushna,Atisar,Mudhagarbha [61], Tandra [62],etc.		
5	Lobha (Greed)	Raktadushti,Mansasheithilya,Shukra-,Ojakshay,Arochak,Unmad, Apsmar [63], Aampradoshak [64], tridoshajvikar [65], etc.		
6	Irsha (Jealousy)	Vatajvikar, Shukra-Ojakshay, Atisar, Klaibya [66], etc.		
7	Maan (Vanity)	Klaibya,vaat- pittajvikar		
8	Dvesha (Hatred)	DwishtharthajChhardi [67],vaatajvikar		

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9	Vadha(Hurt)	Agantuj Shotha [68],Aganuj Vrana [69],Mudhagarbha, Arsha
10	Anyathakaam (Unlawful sex activity)	Raktadushti, Yonivyapad [70],tridoshajvikar,Guhyarog [71], Shukravahsrotodushti [72],Kushtha,Pratishyay,Shwas,Kaas,Hikka,Udavart [73],Urahkshat , Pratishyay,Arsha,Shukrashmari,Mudhagarbha
11	Mithyacharan/Paapkarma (Sinful deeds)	Kushtha [74], Udar [75], Prameh, Shvitra
12	Sahas (Rash behavior)	Rajyakshma [76],urahkshat [77], vaatajvikar

Review of Paapkarma Chikitsa

Pradhnyaparadhis the main cause of Paapkarma/ Sinful deeds. The actions created by thepradhnyaparadh aggravate the shaririktridosha as well as Manasik raja and tamadosha to create sharirikandmanasikvyadhies respectively.

Preventive and Curative Measures for the Paapkarma are as Follows

Nidan Parivarjan (Avoidance of Causative Factors)

Paapkarma should be avoided by body, speech and mind. It means pradhnyaparadh should be avoided. For that one should follow the principles mentioned in the texts regarding Dincharya, Rutucharya, Aahar-Vihar, Aachar rasayan, Sadvritta, Yoga, Satvavajay chikitsa, Daivavyapashray-Yuktivyapashraychikitsa, Dharniya vega.

These also help to prevent from Paapkarma and to cure the diseases occurred due to them. Mental disorders occurred if one become a victim of impulses like greed, grief, fear, anger, jealousy etc. To prevent and to protect mental health one has to follow the above principles regarding Dincharya etc.

To Follow Sadvrutta

Sad means 'good' and Vritta means 'behaviour' or 'conduct'. Sadvruttameans behaviour code good or of right behaviour.Sadvrutta mentioned in Ayurveda classical texts highlights the importance of socio-cultural factors in the maintenance of mental and social health [78].

To maintain health and to prevent disease one should follow Sadvrutta. Asatmendriyarthsanyog and Pradhnyaparadh cause various physical and mental diseases and also some sinful deeds.

To avoid these, in classical textsSadvrutta is mentioned. In Charak Samhita Sutrasthana Adhyay 8 Acharya Charak stated many types of Sadvrutta e.g. sharirik, mansik, Samajik, Dharmik, vyavaharik Sadvruttaetc. Sushrutacharya explained Sadvrutta in chikitsa sthanaadhyay24. In Dincharya adhyay of sutrasthan, Acharya Vagbhata described Sadvrutta. All the activities of the human beings are meant for happiness only. Such happiness will not be happened without Dharma i.e. right conduct. Therefore, one must always pursue right conduct [79].

To Follow Achar Rasayana

Acharmeans the ethical and moral activities described in Shastra. Achar Rasayan is the means to acquire rasayan effect through social and personal conducts [80]. It provides excellent mental, physical, social and spiritual without health having anv medicine. Acharya Charak has mentioned it in Chikitsa Sthana adhyay1.

To Follow Satvavajayachikitsa

The word 'Satva' refers to Mana i.e. mind and 'Avajay'refers to conquering or win over [54]Hence Satvavajay means to have control over the mind and thus abstaining from things that are not good for the health. Satvavajaychikitsa not only prevents the impairments of Dhee, Dhruti and Smruti but also brings them back to the normal state, playing a significant role in the maintenance of harmonious state between these three factors ultimately leading to happy, healthy state of individual [81].

Satvavajaychikitsa specially described by Acharya Charak for the Manas Vikar. The best approaches to achieve the goal of satvavajayis by developing the Jnana, Vigyana, Dhairya, Smruti and Samadhi (meditation) Acharya Charak and Vagbhata stated that manasikdoshacan be reconciled only by taking recourse to spiritual and scriptural knowledge, patience, memory and meditation [82-83].

Satvavajayaychikitsa (psychotherapy) is aimed at regaining the normal mental activity by conducting practice of Yama, Niyam, Asan and Pranayam. These remedies ensure free circulation of PranVayu (oxygen) throughout the body resulting in removal of blockage of channels of circulation linked to mind [84].

Yuktivyapashraychikitsa

If physical ailments occur by sinful deeds, then Yuktivyapashraychikitsa should do accordingly. Shirodhara, shirobasti help to lower down stress and strain of the person.

Daivavyapashraychikitsa

Prayachitta of is part ิล Daivavyapashraychikitsa. It means cleansing of thoughts through chanting of divine mantras, fasting, and manidharan etc. Daivavyapashraya methods create confidence and remove the fear and negative thoughts. It works at the level of mind and thereby influences the body [85].

Yogabhyas

Happiness and miseries are felt due to the contact of soul, the sense organs, mind and object of senses. Both these types of sensations disappear when the mind is concentrated and contained in the soul and the supernatural power in the mind and the body is attained. This state is known as Yoga [86]. Those who are practicing yoga, attained eight supernatural powers (entering others body, thought reading, doing things at will, supernatural vision, supernatural audition, miraculous memory, uncommon brilliance and invisibility when so desired).

All these are achieved through the purity of the mind that means free from rajas and tamas [87]. According to Patanjali yoga Sutra, yoga is the restraint of the mind. To remain free from physical and mental ailments one should follow Ashtang yoga i.e., Yam, Niyam, Asan, Pranayam, Pratyahar, Dharna, Dhyanand Samadhi described in Patanjali yoga Sutra.

Discussion

Hinsa

Physical, verbal and mental misconduct is Hinsa(violence). According to Acharya Arundattahinsa comes under Kayikpaapkarmaphysical sinful deeds). There are different types of violence. It can bullying, child include maltreatment. violence, domestic community violence, sexual violence, psychological violence etc. To hurt someone verbally is also violence and to have bad thoughts about someone in one's mind is also considered as violence.

Suicidal tendencies increase due to stress, strain, frustration.

It is a kind of Hinsa. Violent tendency is based on mind filled with greed, anger, jealousy, frustration, stress-strain etc. This is why violence is on the rise all over the world and it arises under the influence of raja and tamaguna of mind.

Due to anger Pitta get aggravated and many pittajvyadhisare also occur. Non-violence i.e. Ahinsa is possible under the influence of satvaguna. One should adopt the path of nonviolence so the feelings of greed, anger and hatred etc. do not arise. Non-violence means not committing violence, not hurting any living being physically, mentally and verbally. Non-violence is the supreme religion.

Dharma means Punya(good deeds). Only by good deeds keep the mind remain pure. Ahinsa is mentioned in Acharrasayan by Acharya Charak [88]. Adopting ahinsa brings benefits of rasayana. Even though Hinsa is a sinful deed, it is not so in all cases. In the treatment of many diseases, Ayurvedic texts have described the use of Mansa ras, Mansa. E.g. Rajyakshma, Raktapitta [89]. As per the disease, Ayurveda stated the benefits and drawbacks of consuming meat.

It does not state violence as its result. When a person cannot survive without the use of meat and is committing violence for the same then he should do whatever it takes to protect his life. According to the Vedic verse "सर्वत्रआत्मानंगोपायीतम्" | if violence is conducted in order to protect one's life, it is not considered asin. However, if violence is conducted despite availability of other means of survival, it is considered a sin [90].

Although violence in Ayurveda is directed towards health (life protection) and disease allevation, it is still wrong. According to Acharya Chakrapani, the rituals described in Ayurveda do not only teach the rituals of Dharma Sadhana but also the rituals of ArogyaSadhana. Therefore the principle of Ayurveda is that all creatures should be friendly when there is no special purpose. To give another example, the Killing of terrorists or people with evil tendencies, enemies of the country is not violence. It cannot be a sin as it protects the country from undesirable things [91]. These should be considered as good deeds. Satvavajayachikitsa should be practiced for becoming free from anger, greed, jealousy etc. Yama is a part of Ashtang yoga [92]. It means detachment, restraint of body and mind. In order to increase Satvaguna in the mind, Yama describes us how to deal with society and other creatures. Ahinsa comes under Yama.

Following this keeps one away from diseases. Anger is the root cause of hinsa and various pittaj diseases. So to avoid this, Ahimsa should be practiced.

Steya

Steya means to steal. To take thing which belongs to someone else and is not one's own through mind, speech and body is known as stealing. This Paapkarma is committed out of jealousy and greed. Today looting/ stealing is rampant in our society. We came across many thefts like theft of money, theft of various materials, theft of organs, theft of literature etc. A thing earned in an unjust manner is theft.

This not only lowers a person's mental state but also creates fear in his mind which can lead to many mental disorders. Therefore one should follow Asteya. Asteya means no stealing. Instead of stealing things, make a sincere effort to earn them. To stay away from Steya, one should follow satvavajayachikitsa (psychological therapy) which is restraint of mind from the objects unwholesome and follow the principles Sadvruttamentionedin of Ayurveda texts.

Anyathakam

Due to Intense libido, sometimes unlawful sex activity happens. Its side effects are seen on body as well as on mind. It causes illusion, mental fatigue, and saptadhatukshayandindriyakshay.

Nowadays this type of sexual activity is becoming more and more prevalent in the world which has led to increased incidence of incurable diseases like AIDS as well as other mental disorders, diseases of Vata.

This way Anyathakam is a Paapkarma. Brahmacharya must be practiced to avoid Anyathakam. Brahmacharya means restraint of the senses and acceptance of good feelings [93]. Adherence to proper brahmacharya brings memory, intellect, health, strength, protection of Shukra Dhatu, symptoms of aging are slowed down and immunity increases.

The other meaning of Anyathakam is desire of perceiving objects of senses by improper way. It affects one's mind and causes many physical ailments. mental and Wrong utilisation of all sense organs i.e. indrivascauses disorders of the senses, e.g. Visual impairment, deafness, indigestion, acidity etc. In such cases if mind is controlled by Satvavajaychikitsa, the senses can be controlled. Following of Sadvrutta also helps to control senses.

Paishunya Vachan

Paishunya means to slander another person or to say bad things about another person related to him due to jealousy, hatred, fear, and feeling of insecurity. This creates distance between individuals. The relationship between them deteriorates. Slandering words are used in politics. Divorce rate in society seems to be on the rise often because of this type of use of Paishunyavachan.

So this is a kind of sin/Paapkarma. One should avoid such words for one's own momentary pleasure. Bitter words are like weapons. Just as a weapon strikes the body and harms it, in the same way the mind is wounded by bitter words. So avoid bitter language. Control the mind by following Sadvrutta and Satvavajayachikitsa.

Parush Vachan

Due to anger, hatred, jealousy, ego etc. one uses harsh or unpleasant word to hurt someone. This creates dissatisfaction in individuals. Sharirik and manasikdoshas get vitiated and cause various diseases. The words one speaks to others can leave a huge impact and create a lasting memory either good or bad. The Parushvachan creates bad lasting memory. So always be careful when speaking or handling the words. Parushvachanis the wrong utilisation of shrotrendriya. Thus it is a Paapkarm. So avoid it by following Sadvrutta.

Anrut Vachan

Lying is Anrutvachan. If one is constantly lying for one's own interest then it becomes a habit to lie. One lie creates a chain of many lies. Lies are used because of false knowledge as well as due to anger and hatred despite having proper knowledge.Untruth are also spoken because of the feelings of desire of having something which is not possible, anger and greed that arise in the mind.

Today, we often see examples of people lying to achieve things they can't achieve on their own. This causes injustice to other people. So lying is a Paapkarma. By speaking untruth,

raja, tamadosha of mana become strong and Satvaguna decreases. Due to false knowledge, anger and hatred only when the said word is free from raja-tama and the satvaguna flourishes, there is proper knowledge. Speaking the truth purifies the mind. Truth is the worshipper of Dharma, so it is acceptable but untruth is the worshipper of Adharma, so it is unacceptable.

Truth alone wins, not untruth. The one who is truthful gets the benefits of Rasavanchikitsa. According to AcharyaChakrapani, telling lie а is prohibited only when this causes some harm to otherwise if one can save the life of another living being by telling a lie, this cannot be treated as a sinful deed [94].

Sambhinnalap

It means irrelevant speech or speaking at inappropriate time. Speaking irrelevantly and at inappropriate time does not achieve the desired work of the person, instead it is a loss. Others also suffer. If there is such a constant irrelevant talk, Udanvayu gets vitiated and does not work properly. Tendency to speak is not proper, produces weakness, immunity decreases and various physical and mental disorders occur.

E.g. Urdhwajatrugatvyadhi, Unmad. Apsmar. Sambhinnalap can occur due to stress and strain. To become free from stress and strain, activities should be planned to increase satvaguna and quality of life. These include observance of silence, God providence, chanting of Mantra etc. By adopting these methods mind becomes pure, while the voice also becomes pure. One must speak at appropriate time with descent words and in brief true and in a pleasing manner.

Vyapad

Comparing and competing with the person cause jealousy and temptation. As a result

enmity arises and out of it undesirable thoughts of others are created. This is called Vyapad. Feelings of insecurity also lead to criticism out of which again undesirable thoughts of others are created.

If jealousy, attachment, prevails, it has an adverse effect on the mind. Vitiation of raja, tamagunaoccure. So avoid comparing yourself to others. Acompany a good person. Follow the code of conduct. Definitely mind will free from jealousy, Attachmentetc.

Abhidhya

Intolerance of another's virtues due to jealousy, greed, hatred etc. or the desire to seizeanothers property means Abhidhya. This is happening due to sensual greed. So it is important to have control on mind. This is possible by practising Sadvrutta, Acharrasayan and by refraining dharniyavega.

Drukviparyay

It means non-belief in the Aptavakya or nonbelief in the principles stated in the classical texts by respectable Acharya. This happens due to ego, hatred, thoughtlessness etc. Principles of Ayurvedaare eternal. To fulfil the purpose of Ayurveda, it is necessary to have faith on these principles. One should follow the principles stated by Acharya regarding dinacharya, ritucharva. Roganutpadan, Annapanvidhi in the Ayurveda classic texts. It will promote physical as well as mental health and prevent physical and mental disorders.

Otherwise, if drukviparyaya is observed then many Lifestyle disorders like Prameh, Sthaulya, Unmad, Apsmar, Twakvicar willoccur. So, ego, hatred, thoughtlessness etc. should be abandoned from the mind by practicing the principles stated bv authoritative persons. These all Paapkarma are Adharma. It affects the environment causing seasonal disturbances. Due to this there will be deformation of water, medicine, air. These cause various diseases or pandemic condition.

Conclusion

Evil deeds by body, mind and speech are the Paapkarma/sinful deeds. The root cause of Paapkarma is pradhnyaparadh. It causes vitiation of Sharirik and Manasikdoshas which are responsible for doing Paapkarma. It can be prevented and cured by adopting following measures.

- Nidanparivarjan
- Refrainfrom suppressible natural urges
- $\bullet \ Sadvrutta and Achar Rasayan$
- Satvavajayachikitsa
- Daiva and Yuktivyapashraya chikitsa
- Aptopdesha
- Ashtang yoga

Doing so, leads to detachment from sinfuldeeds, attains health and senses are conquered through restraint of mind.

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CONCEPTUAL STUDY OF KSHEERPAKA KALPANA FROM ASHTANGA HRIDAYA

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ABSTRACT

In Ayurveda there is various methods of preparation of *Aushadhi* (medicine) like – *Sneha kalpana Kalka, Kwath, Swarasa, Hima, Fanta kalpana. Ksheerpaka kalpana* is unique dosage of Ayurveda which is an *upakalpana* of *Kwath kalpana.Upakalpana* are based on *Panchavidha kashay kalpana.Acharya* Vagbhata used the word *Shrutam payah, Sidhha payah* (medicated milk) which is nothing but *Ksheerpaka. Aacharya Sharangadhara* explained the process of preparation of *Ksheerpaka. Ksheerpaka kalpana* is decoction of milk. In this medicinal *Dravya*, milk & water are boiled together so that the medicinal values are extracted into milk. Milk have nutritious as well as medicament values. *Ksheerpaka kalpana* is palatable and advisable to children as well as elder. *Ksheerpaka kalpana* have been mentioned by *Aacharya* in various *Vyadhi* (disease) like *Vatrakta, Vatvyadhi*,

Slipada, Jwar, Raktapitta, Kasa, Vran. This article contain various *Ksheerpaka* with their role in various *Vyadhi* according to *Aacharya Vagbhata*. Conceptual reviewing of all *ksheerpaka* from *Ashtanga Hridaya* is the main aim of this article.

KEYWORD: *Ksheerpaka, Vyadhi, Lakshana, Sidhha ksheer.*

INTRODUCTION

Ksheer is easily available Dravya. Aacharya explained its Gundharma (properties) as Madhura paka, Madhura rasa, Dhatu vardhaka (anabolic nature), Shleshmakar, reduces Vata

Pitta dosha, Vrushya, Guru- Snigdha Guna yukta.^[1] *Ksheera* is very helpful in certain *Vyadhi* like- *Jirna Jwara, Mutrakruchha, Raktapitta* etc.

Ksheerpaka preparation method

According to *Acharya sharangadhara* - one part of *Aushadhi dravya*, eight parts of *ksheer*, four parts of water are to be boiled on *Mruduagni* (mild flame). Mixture is heated till *Ksheer* remains in the pot. In this *Siddhaksheer* – all the *Gundharma* of medicinal *Dravya* (drug) get extracted into the milk.^[2]

Aacharya have mentioned various *Ksheerpaka* in treatment of different Rogas (disease). A milk is colloidal solution. It is most efficient media for extraction of medicinal value from herb and easily absorbed through the body cells. The Compilation and conceptual reviewing of all *Ksheerpaka kalpa* in *Ashtanga Hridaya samhita* have been done.

Sr. no.	Aadhyaya Name	Ksheerpaka(Sidha Ksheer) content-	Vyadhi/ Avashta
1	Garbhavyapada ^[3]	Priyangu, Kamala, Nilotpala, Umbar.	Garbhavyapada, Garbhasrava, Raktasthambak.
2	Garbhavyapada ^[4]	Shalimula, kakoli,bala, atibala, jeshthamadha, ekshu mula.	Shool, bruhana, Garbhasrava.
3	Jwar ^[5]	Sunth, kharjur, mrudwika, sita, gruta, chandan, pipali, madhu.	Trushna, daha, jwar.
5	Jwar ^[6]	Panchamula.	Kasa, shwasa, shirah-kukshi-shool, jwar.
6	Jwar ^[7]	Earanda mula.	Raktatisara, pravahika, Trushna, vibandha shula.
7	Jwar ^[8]	Bala bilva.	Raktatisara, pravahika, trushna, vibandha shula.
8	Jwar ^[9]	Sunthi, bala, vyaghri, gokshur, guda	Shoth, jwar, kasa, vibandha vata.
9	Jwar ^[10]	Vrushchika, vrushabhu, Bilva.	Shoth, jwar.
10	<i>Jwar</i> ^[11]	Shinshipa sara.	Jwar.
11	Raktapitta ^[12]	Panchamula, sita.	Vata adhika raktapitta.
12	Raktapitta ^[13]	Jivaka, hrushabhaka, draksha, bala, gokshur, nagar.	Vata adhika raktapitta.
13	Raktapitta ^[14]	Gokshura, shatavari, mudgaparni, mashaparni, shaliparni.	Mutra margagat saruja raktasrava.

Table- Ksheerpaka (Siddha Payah) mentioned in Ashtanga Hridaya.

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14	Raktapitta ^[15]	Mocharasa/vat praroh, shrunga/suntha, vala, kamala.	Gudagat raktasrava.
15	Kasa ^[16]	Laksha.	Urah kshath.
16	Kasa ^[17]	Ekshwarika, bisa, padmakesara, chandan, madhu.	Urah kshata.
17	Rajyakshama ^[18]	Jivaniya gana, madhu, sita	Swara sada.
18	Atisara ^[19]	Earandamula/bala bilva.	Vatvibandha, pravahika, shula, sarakta pichha mala.
19	Mutraghata ^[20]	Bramhimula/punarnava/ haritaki.	Mutrashmari vedana.
20	Mutraghata ^[21]	Bruhatyadigana, gokshura.	Mutra vikarajit.
21	Vatavyadhi ^[22]	Haritaki(sthira).	Hrudayashrita vata.
22	Vatvyadhi ^[23]	Kashmari, jeshthamadha, sita.	Shushka garbha.
23	Vatrakta ^[24]	Guduchi swaras, sita.	Vatrakta.
24	Vatrakta ^[25]	Bala, shatavari, rasna, dashmula, pilu, earanda, hirda, nishottar.	Shulaghna-vatrakta.
25	Balopacharniya ^[26]	Laghupanchamula, hirda, paya, sita.	Stanya abhava.
26	Sadyovrana ^[27]	Earandamula, laksha, gokshura, jeshthamadha, sita.	Udarvrana, vedana, daha.
27	Granthi-arbuda- shlipad-apachi-nadi- pratishedha ^[28]	Suntha.	Vataj shleepada.
28	Vjikarana ^[29]	Aatmagupta.	Vajikara.
29	Vjikarana ^[30]	Kshirakakoli.	Vajikara.

Garbhavyapada - In *Garbha srava* like intensive condition *Acharya* explained *Ksheerpaka* of Dravya having *Guna Shita*(cold), *Madhur(sweet)*, *Tarpak* (rejuvenation), *Ruja nashak* (pain killer), *Raktapitta nashak*. *Ksheerpaka kalpana* is recommended to enhance the action of Dravya. Here the *Sara* (attribute) of milk contributing to combact *Garbhasrava* (abortion). *Garbhavyapada*- Milk enhance the properties of *Bala*, *Kakoli* like *Jivaniya* and *Vataghna Dravya* to cure the condition like *Shool* (pain) and to do nourishment in *Garbhasrava* disease.

Jwar- In Jirna jwar(chronic fever) Aacharya explained veriety of Ksheerpaka kalpas to overcome various Avastha(situation) of Jwar like Dipana(appetizer), Pachan(digestive), Shita, Trushna nashak, Pittaghna Dravya Ksheerapaka to reduce Trushna, Daha (burning

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sensation). Panchamula like Vataghna Dravya Kseerapaka for Shool, Kasa, Shwas Avastha. Erandamula, Bal Bilva like purgative, Anulomak, Vataghna Dravya Ksheerapaka to Vatavibandha, Pravahika (diarrhea) Avastha in Jwar milk help to improve palatability, reduce weakness, and soothing effect.

Raktapitta - milk have *Raktapittaghna*, *Shita*,*Snigha* property which help to enhance the *Guna* of *Dravya* to cure *Raktapitta* condition.

Kasa – Sandhaniya property of milk and laksha Dravya combinely work in Urah kshata condition.

Mutraghata –with *Mutrala Dravya* milk help to *Vatanuloman* which lead to *Vedana nashan* (pain relief).

Vatvyadhi- In Shushka Garbha condition Jivaniya Dravya Ksheerapaka used where Garbha Bruhana, Poshan is the aim of treatment. Jivaniya Dravya and milk combinely act as Garbha Poshak, Bruhan with help of Snigdha, Balya, Guru, Dipan, Jivaniya guna.

Vatrakta- milk is instant nourishing medicament.its effective in *Rasa, Rakta Dhatu* with *Vataghna, Raktashudhikar Dravya* it increase the speed of recovery of disease condition by fast absorbing property.

Hrudaya ashrita vata- Haritaki is hrudya dravya (cardioprotective), purgative, Dipana Ruksha Guna Yukta. Anulomak, Mrudu Virechak, Aampachak, Snigha guna of Milk help to Vatanulomana and also overcome Ruksha Guna of Haritaki.

Balopacharniya – in *Sthanyaabhava* condition *Aja* (*goat*) milk is used with *laghupanchamula*, *Hirda* like *Virechak*, *Vataghna*, *Pachak*, *Dipak guna yukta Dravya*, *Sita* to get better taste here milk act as medicament as well as food of child.

Vataj Shleepada- Suntha (Zingiber officinale) is *Katu rasa, Guru, Tikshna, Ushna Virya, Madhurpaka*. due to *Ushna, Tikshna, Katu guna* It can cause bleeding, swelling, abdominal distension if taken continuesly. Milk help in overcoming these toxicity of *dravya* and provide an excellent carrier which retail its useful attribute.

Vajikaran – Aasti, Majja, Shukra dhatu have the similar properties (*guna*) as of *ksheer*. The milk is also called as *Sadyashukrakara*, that which instantly nourishes the *Shukra Dhatu*. In

this condition milk provide excellent fast acting medium (*shighragamitwa*) to *vajikara dravya*.

DISCUSSION

Ksheerpaka Kalpana is in practice since Vedic period. Ksheerpaka is medicated milk.

According to Ayurveda this type of formulation has cooling and anabolic properties. *Ksheerpaka* extract does therapeutic action of drug as well as nourishes tissues. *Ksheerpaka* includes better palatability. It is suitable for all *rugna* (pationts) with all age group. In *Ashtanga Hridaya* total 29 no. of *Kseerpaka* has been described. Maximum number of *Ksheerpaka* have been explained in *Chikitsa Sthana*. *Aacharya* explained *Ksheerpaka kalpana* as *Vajikara dravya* to various *vyadhi avastha* such as, *Garbhasrava*, *Jwar*, *Raktapitta*, *Kasa*, *Rajyakshma*, *Atisara*, *Mutraghat*, *Vatvyadhi*, *Vatraktaj shool avastha*, *Vrana*, *Shlipada*(filariasis). This versatility have been mentioned. Multipurpose use of *ksheerpaka kalpana* have been found. Milk is used as food as well as medicament in *Grantha*. According to modern science milk contain water fatty acid, lipid, minerals, vitamins, immunomodulatory, enzymes, antioxidant property. *Ksheer* is *Aajanma satmya* and *Rasayana guna yukta*. *Ksheer* reduce the *tikshan ushna* like toxic property of *dravya* and improve absorption of drug into body also improve palatability of drug.

CONCLUSION

We may thus conclude that *Ksheerpaka Kalpana* is unique formulation, which helpful to promote health as well as treat *Vyadhi*. *Ksheer* is *Aajanma Satmya Dravya*. Easily palatable by the children & elders.

Quality of milk has been potentially used as a medicine by combining it with different herbs as in *ksheerpaka*. *Ksheerpaka kalpa* with verity of *Dravya* combination in various *Vyadhi Avastha* have been found in *Ashtanga Hridaya samhita*. This specific formulation are easily preparable with using huge range of herbs, indeed has a great scope for therapeutic application in daily practice.

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Role of Vamana Karma in The Management of Sheetapitta A Case Study

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Nowadays sheetapitta is common skin condition. In vasanata rutu, there are more patients of sheetapitta. In this, tridosha dusti occurs.

Due to asatmya aahara vihara, it triggers the doshas. Vitiated kapha or vata due to sheeta marutadi hetu get mixed with pitta. Then kapha and vata along with pitta spreads all over the body. This condition includes Mandalotpatti, Kandu and Daah.

Madhavakara quoted that sheetapitta having vatika dominancy while udarda having kaphaja dominancy⁽¹⁾.

Here, Vamana karma is to be preferred for above condition⁽²⁾. As shodhana plays more role than shaman. **Keywords**- Sheetpitta, Asatmya aahar-vihara, Mandalotpatti, Daah.

Introduction

In todays era,Sheetapitta became very common skin condition.

In modern science, it is correlated with urticaria. But there is not any permanent solution. Contineous intake of medicines can cause any side effects.

According to Ayurveda,Life style and food habit that is aahara-vihara causes vitiation of vata and kapha doshas along with pitta dushti.It also causes rakta dushti.

Madhava nidankara describes the causative factors which includes kandu,daah,mandala. Sheetapitta treatment is described in Yogaratnakara, Bhaishajya ratnavali.

Here, along with the sheetapitta, kandu occurs dominantly. Hence it is considered as Udard.

Madhavakara has explained the symptoms of udard as Utsed, Aaraktavarnata,Kanduyukta mandala⁽³⁾. This condition increases in winter season. Therefore in this condition,Vamana therapy has planned.Vamana karma will expel dusta pitta and kapha doshas.

Then shaman chikitsa given. It shows marked effect in sheetapitta.

Materials And Materials Case Study :

A 35 years female patient came to panchakarma opd with the complaints of mandlotpatti over the hands face, thighs region.

On examination, lessions were redish in colour, spreading over the limbs with irregular shape and margins.

Itching doesn't disappear till medication taken.

All routine examinations done.ECG and chest X-ray done before vamana therapy.

Assessment Criteria

1) Mandalotpatti-

- 0 Absent
- 1 Locally present
- 2 Present on all body parts
- 3 Present all over body parts
- 2) Kandu
 - 0-Absent
 - 1 Occasionally kandu
 - 2 Disturbance in daily activity
 - 3 Diturbance in daily activity and sleep
- 3) Daah
 - 0 Absent
 - 1-Occasionally daah
 - 2-Disturbance in daily activity
 - 3 Disturbance in daily activity and sleep

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Treatment

The procedure of vamana karma explained to patient and written consent is taken.

The procedure is done as follows.

		Deepana	Panchakola choorna for 3 days with
	1	pachana	leukewarm water
		Snehapan	Mahatikta ghrita in vardhman matra in
	2	а	morning with empty stomach
		Snehan	Abhyang taila for 2 days
	3	swedana	
Γ		Vamana	Yastimadhu phant
L	4	karma	(Madanphal+pippali+vacha+saindhava+
			madhu)
	5	Kaval	Koshna jala
Γ	6	Dhoompa	Haridra+Tulasi+karpoora+ghruta varti
		na	
		Samsarjan	7 days
	7	a krama	S.

Assessment Criteria-

Sr.No	Parameters	Before treatment	After treatment	
1	Mandala	2	1	
2	Kandu	2	0	
3	Daah	2	0	

Result

After vamana karma, improvement in above lakshans are seen.

Discussion

Sheetapitta is tridoshaj vyadhi in which vitited kapha merges with pitta and due to vata dosha ,it spreads all over the body.

According to yogaratnakar,sheetapitta can be treated with vamana karma.

So that vitited kapha can be moved outside the body.

Vaman karma is carried out in three steps -

- 1) Purva karma Pachana, snehana swedana
- 2) Pradhan karma-Vamana karma
- 3) Paschat karma-Samsarjana krama

The assessment is done after shodhana. There is marked relief achived.

In next follow up ,patient had given Haridrakhanda⁽⁴⁾ for 7 days. Advice to follow up pathya apathya.

Conclusion

- 1) The vamana karma is effective in sheetapitta
- 2) Efficacy of vamana karma is proved.

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MISCONCEPTION OF WATER DRINKING IN THE LIGHT OF AYURVEDA CLASSICAL TEXTS - A REVIEW.

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ABSTRACT

Water has at most important in the human life. It constitutes 60 to 74 % of total weight of human body. Water plays very important role in many physiological processes by maintaining hydration in body. But question is that, is everyone need 8 glass of water every day? People have very little scientific knowledge about consuming the quantity of the water. Thirst is natural urge which plays an important role in determining the quantity of the water that the humans and every other animal should drink. Animals don't know science, but they have thirst and they follow natural urge, and almost remain hydrated without major related illness, but few of the human beings have developed the mathematical models to drink the water and that is being spread into the society. Many time people drink more and more water, without thirsty felling, only under belief that, drinking excessive water detoxify body. Many people thought that their behavior have Ayurveda basis. Ayurveda does not approve any of such claims and that comes to the notice by in some references made in the Ayurveda.

Keywords: Excessive Water drinking, Ayurveda, Misconception, Thirst.

1. INRODUCTION

Sometimes few things are bombarded on human minds in a way that those things are accepted by the humans even if they are incorrect. Health related misinformation is not exception to this tendency. Everyone is not interested to check that the source of information is authentic or not. As we observe majority carries the law, people blindly follow incorrect practices. In such instances, even if someone tries their hard to put the true side of those things they do not get accepted. Water has at most important in the human life. It constitutes 60 to 74 % of total weight of human body.¹ While investigating the history of the patients, it has been observed in multiple instances that they drink a lot amount of water in the morning and they tend to believe that they are drinking this amount of water as they are too much conscious about their health. Few of them drink the water before brushing their teeth, few drink warm water and few drink the mix of water and honey.

Never mind, all of them believe that these rituals are very helpful for their health (e.g. getting rid from the constipation, feels fresh etc.). We seem that, people start their morning with drinking too much water at 7 a.m. onward. Many times, these people claim that these advices are mentioned in the Ayurveda and they ask others to follow the same. When we ask people about how they started excessive water drinking (*Atyambupan*) or what influence them to do that, we found three main sources of information to most people, first one is health

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tips by non-medico personalities from any newspapers, second one is some spiritual masters who claim to have in depth Ayurveda knowledge. And main reason of this spread of false belief are naturopathic trainer. Naturopathic supporters are claiming and spreading this as a detoxification method Most of time people get confuse between naturopathy and Ayurveda thought to have no difference between these two strains. All of these circumstances result into misleading common people about water consumption. However, this habbit of drinking the water in the morning may invite a lot of health issues. Hence, it is important to check what has actually been mentioned in the Ayurveda about the same.

2. CONCEPT REVIEW

Most of the times the root cause analysis of the health issues of the patients points to their habit of drinking the water. Most of the patients who have fallen for this habit have the complaints regarding the swelling on the body, asthma, cold, acidity, cold-acidity, constipation, etc. When the references made regarding the water are checked, it has been found that the Ayurveda has never advised to drink a lot of water.

Acharya Vagbhat stated that, the people with the health issues mentioned next, should not drink a lot of water - Weak, Agnimandya, Gulma, Pandurog, Diarrhea, Piles, Grahani, Rajayakshma, swelling (important to note the diarrhea here).² Normal human beings should also not drink a lot of water except in the Sharada and Grishma rutu. As per Acharya Sushruta, the person having arochak, pratshwavathu, ishvav. mandagni. kshava. mukhprasek, jathar rog, kushtha, netrarog, jwara, vrana, madhumeha should drink little water.³ Here *mandagni* is very important condition and most of the disease caused due to mandagni as per Ayurveda. Therefore, every sick person should drink water cautiously. Simple way to overcome this confusion is to follow thirst. As per Bhavprakash water also need time to digest. As we feel hunger after digestion of food, by same way thirst feel after digestion of water. Normal water takes 6 hrs. to get digest, water which is first boiled and then cool down to normal temperature take 3 hrs. to get digested and water which is first boiled and then cool down to turn Luke-warm is get digested within 1 and half hour.⁴ It is clear that, water needs to get digested. Indigestion of it may result into *aam* formation. There are various multiple conditions in which quantity of water drinking has restriction. Heavy water drinking is not that much safe that normally considered.

3. RESULTS AND DISCUSSION

There is reference to drink water at early morning. Ushapan is mentioned by Bhavprakash.[°] Drinking the water is advised on the bramha-muhurta (Ushahpan). But brahma mu*hurta* is specific time and not whole morning. 144 minutes (approximately 2 and half hour) to 96 minutes (approximately 1 and half hour) before sunrise is termed as bramha-muhurta period i.e., 3.30 am to 4.30 am approximately. This is the time when excretory system is active. And after that body induce *mal-utsarjana*. And results into natural vegpravartan. However, when people drink a lot of water after the sunrise, it causes health issues as the *mala-vega* is created artificially in such instances. This is called as 'Vega Udiran' and this causes a lot of problems (e.g., Agnimandya, vaata, swelling, etc.).

Sadly, the self-proclaimed campaigners of the Ayurveda are always giving the false advice to drink huge quantity of water in the morning. In reality, Ayurveda has never claimed anywhere that drinking more water is useful. Drinking more water never helps in any way, nevertheless there are bad implications to the health due to this. Drinking water in the morning causes the '*Jirna Agnimandya*' which leads to multiple health issues. In long term, drinking the water in this way causes to increase in such issues. Then what is the correct thing to do? How much quantity of the water should be consumed? The answer is, one should only drink the water according to their thirst.

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Thirst is generated naturally. It is the one *Vega* of the 13.⁶ The *vega* are neither supposed to be stopped forcefully nor it should forcefully produce.⁷ With this rule, the water that should be consumed is must be equal to the thirst the person has. Extra water reduces the *Jatharagni*, it also weakens the digestion. Drinking more water accumulate in the body causing reduction in *dhatvagni* and increases *dhatumala* i.e. *kleda* in the body. *Dosha* and *Dhatus* also get contaminated due to this and tends to liquefy comparably. According to the Charaka, melted and watery cough leads to the *Prameha* i.e., diabetes.⁸ This shows that, drinking more water can also cause the diabetes.

Some modern studies reveal that excess water may harm Too much consumption of water can lead to fluid overload in the body and imbalance in the body. Due to excessive water intake amount of salt and other electrolyte in your body become too diluted. This condition leads to hyponatremia in which sodium level become dangerously low.⁹ So, it is very important that people do not fall for the false claims which advice to drink a lot of water. Drinking the water according to the thirst is always helpful.

All Acharyas have put forth the advisable daily routine i.e., *dincharya*, however none of them have advised to drink more water as part of the daily routine.¹⁰ If there were any benefits of drinking more water, they would have surely mentioned about it in their *gran*-*thas*. But practically this is difficult to convince all people to follow there need of water and do not get divert from true science. The clinical study must be carried out to find out the effect of excess water intake in above mention diseases as well as normal people.

4. CONCLUSION

Water is for sure the life. However, if more water is given to the crop, it leads them to turn yellow and get destroyed. The rule, 'An excess of something invites to the issues' is applicable to the water consumption as well, and it was known to the society. However, the true Ayurveda is being ignored now a days and many people blindly drinking excess amount of water which is leading to multiple health issues. On the basis of Ayurvedic text, there is obsolete no benefits of excessive water drinking *(Atyambupan)*. Same is supported by many modern studies. So, conclusion is that, excesses water drinking habit i.e., *Atyambupan* is hazardous to health. Hence, it is very important for everyone reading this, that they should spread this correct information which will help the society to get rid of the unnecessary troubles caused by drinking more water.

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9

AYURVEDIC MANAGEMENT OF KASHTARTAVA (PRIMARY DYSMENORRHOEA) – A CASE STUDY

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ABSTRACT

Kashtartava is the condition where the artava discharge with great difficulty & pain. Dysmenorrhoea is the most commen gynaecological problem faced by women during their adolescence which causes significant discomfort and anxiety for the women. It may create the emotional distress brought on by the pain and may result in missing work or school, inability to participate in sports and other activities. Kashtartava is a Vata dominant Tridoshaja Vyadhi and Dashmoola Taila also Tridoshaghna and considered as best Vatahara. So, it cures the disease by samprapty vighatana as vitiation of Vata dosha is responsible for this disease. So, that the treatment Dashmoola Taila Matrabasti is selected for the present study. A 23 year old female patient complaints of pain during menstruation associated with

nausea, constipation suffering from primary dysmenorrhoea since 4 cycles without the involvement of any secondary disease. 60 ml Dashmoola Taila Matrabasti for 7 days in midcycle given to the patient for 3 cycles. There was substantial relief of symptoms. So. Dashmula tail Matrabasti is safe & effective in the management of Kashtartava.

KEYWORDS: Kashtartava, Primary Dysmenorrhoea, Vata dosha, Dashmoola Taila, Matrabasti.

INTRODUCTION

Kashtartava (Primary Dysmenorrhoea) is the most common gynecological problem faced by women during their adolescence which causes significant discomfort & anxiety for the woman as well as family. A systematic review of studies in developing countries performed by Harlow and Campbell (2002) has revealed that about 25-50% of adult women and about 75% of adolescents experience pain during menstruation, with 05-20% reporting severe dysmenorrhoea refers to menstrual pain without pevic pathology.^[2]

In Ayurvedic texts, though various conditions are described in which menstruation occurs with pain but Kashtartava is not mentioned specifically. It is a symptom of various Yonivyapadas specially Udavarta, Vatala, Sannipatika etc. Acharya Charak has mentioned that Yoniroga can't occur without vitiation of Vata. As Vata is main causative factor it should be treated first.^[3] According to Ayurveda, pain is an indication of Vata Vikriti – Vatadrite Nasti Ruja.^[4] Pain is the main feature of Kashtartava, so it has strong relation with Vata dosha. In classical text it is explained that due to Vega Dharana of Vata, Mutra & Purisha the Apana Vata get vitiated and it gets Udhravagami i, e normal Anulomak Gati of Apana Vayu changes to Pratiloma Gati and this vitiated Vata lifts the Yoni upward. And causes obstruction to flow of Raja. And then Raja comes out with great difficulty with severe shoola.^[5]

In Ayurveda, Basti karma is the best choice of treatment for Vata dosha. All the Acharya has appreciated Basti as a unique form of treatment modality. Basti is said to Ardha Chikitsa Or Complete Chikitsa by Charakacharya.^[6] And Dashmoola Taila is also Tridoshaghna & considered as best Vatahara. So, Dashmoola Taila Matrabasti is safe & effective in the management of Kashtartav.^[7]

MATERIALS AND METHODSTUDY TYPE

A single case study of Kashtartava.

Study design

A single case study of patient was taken from OPD of our Ayurved Rugnalya. Informed & written valid consent was taken.

Case presentation

A case study of 23 years old unmarried female patient, Hindu by religion, Student by occupation presented with chief complaints of painful menses, associated with nausea & constipation suffering from primary dysmenorrhoea more than 4 cycles without the involvement of any secondary disease.

Prakriti – Pitta vata B.P- 120 / 70 mm Hg

Pulse -78 / min Patient was not obese.

Menstruation was painful. She cannot do even her normal routine work and has to absent fromoutdoor work during menses had to take analgesics & antispasmodics but poor effect. Menarche – at the age of 13 years

M/H – Pain continues for 12 – 24 hoursShe used 4- 5 pads/cycle Duration of menses – 3-5 days / 28- 30 daysNausea & constipation was present. Fatigue by normal daily routine

For this, patient took allopathic treat for long time but disease recurrence was seen.

Sonography (U.S.G) was done for uterine & adnexal study to rule out secondary dysmenorrhea.

Sonography and all blood tests (routine test) were within normal range. Past History-not significant.

Treatment protocol

60 ml Dashmoola Taila Matrabasti for 7 days in midcycle given to the patient for 3 cycles.^[6,7]

Advice given to the patient

Ahara: To take fruits, green vegetables, simple foods. To avoid spicy food, fried food, fermented food, non-veg. on and around menstruation.

Vihara: To take rest, do Pranayama for 10 minutes. To avoid heavy weight lifting, journey, heavy stenos work, tension.

RESULT

Improvement in symptoms of patient. Relief was found in painful menses, nausea & constipation. Matra Basti is found to be efficacious in the whole symptom complex of

Kashtartava. Dashmool Tail Matrabasti is effective in Artav vikara. Menstruation cycle became regular and at normal interval without any complaints.

DISCUSSION

Primary dysmenorrhea is described as the condition of pain during menstruation with no apparent pathology. Due to indulgence of Vata vitiating Ahara Vihara, Dhatu Kshaya and Margavrodha Vata gets aggravated leading to further Dhatu Kshaya starting from Rasa then Rakta leading to Aparipurna Upadhatu Nirmana i.e Artava will be produced in less quantity than normal. This will further vitiate Vata Dosha which further will produce Kshobha in Garbhashya.This will lead to Toda and Vedana. Due to vitiation of Vyana and Apana Vayu Akunchana and Prasarana Kriya of Garbhashaya does not take place properly. This state exactly as that of dysrhythmia of uterine muscles which will hinder proper flow of menstrual blood leading to Kashtartava.

Probable mode of action of dashmoola taila matrabasti

According to the concept of Viryasamkranti (transformation of potency) described by Acharya Charaka,^[8] the potency of Dashamoola is already transferred in Dashamoola Kwatha, and the potency of Dashamoola in the Kalka form, on processing with oil, further causes the Viryasamkranti into the Taila. Thus, the Taila carries the whole potency of the drug in it. Madhura, Tikta, Kashaya Rasa, Guru, Snighda Guna, Ushna Veerya, Madhura Katu, Vipaka, and Tridoshanashaka Karma of Dashamoola Taila acts on Kashtartava by its Dravya, Guna, and Prabhava. It has been proven that Dashamoola has anti-inflammatory, analgesic, and antipyretic actions.^[9]

Matrabasti on Kashtartava deals mainly with the Apana Vayu as the organs situated nearby are its seat. Snehana and Svedana prior to Matrabasti does its Anulomana and thus Matrabasti becomes more efficacious. Modern science too has recognized that local heat has a good effect on primarydysmenorrhea.^[10]

CONCLUSION

Kashtartava is a Vata and Kapha Pradhan Vyadhi and the main culprit Dosha is Vata. Due to Kapha Prakopa the Srotas gets obstructed by Kapha and this leads to the Prakopa along with Pratiloma Gati of Apana Vayu leading Kashtartava. Matrabasti has both local & systemic effects. It causes Vatanuloman there by normalizing Apana Vata. Matrabasti is found to be efficacious in the whole symptom complex of Kashtartava. Dashamoola Taila Matrabasti are highly effective in Kashtartava. Dashamoola Taila Matrabasti also helps to prevent recurrence of dysmenorrhea.

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Codes of Conduct of Life-Sadvritta

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For Mental Health

Ayurved is an ancient science, working on curative and mainly on preventive aspect. In accordance to that, health has two aspects-one is physical health and another is mental health. In COVID scenario everybody is bound to keep once health in order. Moreover psychological health (Manaswsthya) is such a complicated part which is not yet completely understood. We can sort out more than 50% of our problems only by changing our behavioural pattern. That's the reason to practice codes of conduct (Sadvritta) for betterment of mental and spiritual health. Sadvritta comprises of two words-SAT meaning good and Vritta meaning behaviour. In 25th chapter of Charak Samhita codes of conduct of life are very beautifully depicted by Achary Carak. Today even after such a big time lapse concept of Sadvritta still stands at its own.

Here some of the sutras from Charak Samhita are discussed-

Harshah Preenananam

Harsh means pleasure, joy and preenan is the thing that makes a person happy. The feeling of being happy is the ecstasy of utmost pleasure. Happiness is the ultimate nourishing and soothing thing for human soul and mind.

Vishado Rogvardhananam

Vishad means disappointment. In this pandemic

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Editorial

situation one encounters with Vishad in day to day life. Lot of psychosomatic diseases is found in people worldwide .Pessimistic view regarding any condition related to health will definitely lead to disease. Its resultant of Vishad so be optimistic and happy ever.

Nivritti Pushtikaranam

Nivritti means detachment and pushtikar is nourishing / nurturing. Detachment from any greed leads to self-satisfaction. Satisfaction itself is health building factor. It enables a person to live healthy and get sound body and sound mind as well.

Loulyam Kleshkaranam

Laulya means desire or longing. Klesh is agony, pain and trouble. Excessive desire of any thing is the baseline cause of agony and pain. Everybody knows the story of a greedy person and his which lays a golden egg every day. In order to get all the eggs at a time he kills his hen and gets nothing. The moral of the story is greed leads to nothing and only gives rise to trouble. These are only few sutras (quotes), depicted in *Charak Samhita*. One must practice these all in everyday life especially in such life threatening conditions of COVID-19 Scenario.





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JANAPADODHVAMSA IN AYURVEDA: A LITERARY REVIEW

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ABSTRACT

Ayurveda is one of the greatest gifts of the sages of ancient India to the mankind. Ayurveda is not only a system of medicine in the conventional sense of curing disease. It is also a way of life that teaches us how to maintain and protect mental and physical health and achievelongevity. Ayurveda does not have a specific text as Epidemiology, but the principles describedare compiled, analyzed and interpreted in the light of modern theories of epidemiology. Ayurveda is the ancient system of Medicine in the world. It has two aims; i.e. prevention and promotion of health and secondly cure from the disease.^[1] According to Ayurveda Covid -19 may included under the headings of 'Aagantuja Vyadhi'or 'Vishamajwara'. Also it Is included in 'Janpadodhvansa vyadhi'. It is included under the concept of 'Epidemiology' in modern science.

KEYWORDS: Janapadodhvamsa, Ayurveda, Literary review.

INTRODUCTION

Acharya Charka, who is credited as the father of Indian Medicine. He has explained a very unique concept of epidemiology as 'Janapadodhvamsa' in Viamanasthana of Charaka Samhita.^[2] It resembles to Epidemiological diseases / Samsargajanya Vyadhi / Upasargaja Vyadhi / Janapadodhvamsajanya Vyadhi. Acharya Sushruta described about the Sansargaja and Aupasargika Vyadhi.^[3] Acharya Sushruta, one of the proponents of Ayurveda, has depicted different modes of communicable disease transmission in his classical treatise Sushruta Samhita. He says by physical contact, expired air, eating with others in same plate, sharing a bed, using clothes, garlands, and paste infectious diseases spread from person to person. These concepts arevery much relevant today. Moreover, the modern texts

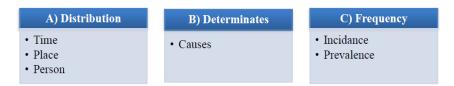
of communicable disease epidemiology describe similar modes of disease transmission.

METHODOLOGY

As we know the famous Proverb that 'As you sow, so shall you reap, Now many of us predicts that what we done with the Nature, it comes back to us with a various different and newdiseases like SARS virus, Ebola virus, Nipah virus and recently Corona virus. WHO declares it is an 'Pandemic disease '(Janpadodhvansa Vyadhi), as well as 'Endemic disease' (Sansargajanya Vyadhi).

'Epidemiology' means – 'Epi' = Among; 'Demi' = People; 'Logy' = Study.

It is the scientific study of the spread and control of diseases. The Study of diseases as.



The word 'Janapadodhvamsa' comprises of two words.

- **Janapada** = Large population
- Udhvamsa = Destruction

'जनपदानां जनसमुहानां उध्वंसनं इति जनपदोध्वंसनम् ।..... (जल्पकल्पतरू) It means Destruction of Large population and the formation of diseases are known as 'Janapadodhvamsajanya Vyadhis'.

Vyadhi Hetu (Causes of Diseases)

Chakrapani stated that there are 2 types of Vyadhi hetu.



The Asadharana Hetu is Pertaining to individuals or Causing Vatadi doshaja vyadhis. It is develop due to the Mithya Aahara – Vihara (Inappropriate lifestyle) and Pradnyaparadha which is causative factor for all the dosha prokopa (vitiation).

B) Sadharana Hetu

'बहुजनसाधारणं वातजलदेशकालरूपं साधारणरोग कारणमभिधातुं जनपदोध्वंसनियोअभिधीयते।' (चक्रपाणि टिका च.वि.३/१-२)

Sadharana Hetus are factors relating to Community like vitiation of Vata (Air), Jala (Water), Desha (Land), Kala (Season). It affects all population at the same time and causesdestruction.

Ex. From vitiated Jala (Water) all community causes Gastro-intestinal disorders or Annavaha Stroto dushti. Therefore it is known as 'Janapadodhvamsa Vyadhi'.

Root Cause for Janapadodhvamsa (Epidemics) 'तस्य मूलमधर्मः वाअसत्कर्म पूर्वकृतः तयोगनिः प्रज्ञापराध एव । (च.वि.3/20)^[5]

Lord Atreya mention the root cause of vitiation of Vayu, Jala, Desha & Kala are Adharma or misdeeds of past performed by 'Pragnyaparadha'(Intellectual errors). Sinful acts may be in the form of.

- Shastraprabhava (Wars) it occurs due to more Lobha, Krodha, Moha.
- Affliction by attacks of Rakshas. (भूतसङ्गे: रत्तमधर्म).
- Abhishapa disrespect of Guru, Vriddha, Siddha, Rishi, etc.
- Pragnyaparadha causes Raja and Tamas predominance resulting in greed, selfishness, tendency to harm people, jealousy and anger.

In the present day sinful act can be correlated to different activities like.

- Antinational elements indulging in bomb blast.
- Crime deforestation.
- Not obeying government rules in the industries.
- Discharge of untreated polluted water in to the river.

• Disposal of waste water in an improper method on land leads to pollution of soil.

All this factors not only influence the individual, but also the society leading toJanapadodhvamsa.

Etiological factors

- A) नियतातंकपर्यायहेतु (Inevitable factors): Inevitable disastrous factors, Harmful effects of sun, moon, stars & planets, irregular season, floods, cyclones, landslides, earthquakes, tsunami, etc.
- B) अनियतातंकपर्यायहेतु (Evitable factors): Man made evitable disastrous factors, Wars, Terrorism, etc.

Janapadodhvamsakara Bhava (Factors Responsible for Epidemics)

'ते तु स्वल्विमे भावाः सामान्या जनपदेषु भवन्तिः तद्यथा-वायुः उदकं देशः काल इति...(च.वि.३/६)^[6]



Characteristics of Vitiation of 4 Bhavas

1. Vayu (Air)

'तत्र वातमेवंविधमनारोग्यकरं विद्यात् I'.....(च.वि.3/6)

- राथर्तुविषमम्: Not in accordance with Season or absence of characteristic features of particular Ritu.
- अतिस्तिमितम्: Excessive Calmness or moist.
- अतिचलम्: Excess speedy / violent blowing wind.
- अतिपरुषम्: Excess Harsh.
- अतिशीतत्युषणमतिरुक्षम्: Excessively cold, hot, dry air.
- अत्यभिष्यन्दिनमतिभैरवारावं: Excess Humid, Air sounding terribly.
- अतिप्रतिहतपरस्परगतिमतिकुण्डलिनं: Excessively Clashing, Forming Cyclones.
- असात्म्यगन्धबाष्पसिकतापान्शुधूमोपहतमिति:
 Unsuitable Smell, Vapour, Gravel, Dust, Smoke.

Effects of Vitiated Vayu (Air) on Environment: (च.सु.12/8)

The following are aggravated functions of Vata.

• Breaking of peak of Mountains, Uprooting of trees, disturbing of ocean, overflowing of lakes, changing of course of rivers, bringing about earthquakes, causing thunders, storms, disturbance of six seasons, non productivity of plant, spread of epidemics among living beings, doing away with the positive features of creation, bringing about cloud, sun, fire and wind which would destroy all the four ages.

- 1. Jala (Water)
- এন্থের্থবিক্রুনেগত্যবর্তাইরেইবর্তা: Excessively deranged in Smell, Colour, Taste and Touch.
- क्लेदबहुतां: Excessive Stickiness / Too Slimy.
- अपक्रान्तजलचरविहङ्गम्: Devoid of Aquatic birds.
- अपक्षीणजलेशयम्: Reduced no. of Aquatic animals.
- अग्रितिकरमपगतगुणं: Absence of Aquatic birds, Loosing its qualities.
- 2. Desha (Land / Location)
- দ্রকুনিবিক্তৃনবর্णग्रेग्धरसरपर्श: Normal Colour, Smell, Taste & Touch of the land affected.
- क्लेदबहुलं: Excess Moisture.
- उपसृष्टं सरीसृपन्थालमशकशलभमक्षिका मूषको लुक्छमा शानिकशकुनिजम्बुकादिभिः Inhabited by reptiles, wild animals, mosquitoes, locusts, files, rats, owls, vultures, jackal, etc.
- तृणोनुपोपवनवन्तं प्रतानादिबहुत्तं: Having excess of grass & weeds.
- अपूर्ववदवपतितशुष्कनष्टशस्यं धुम्रपवनं: Land has fallen, dried & damaged, Smoky winds.
- उदभान्तव्यथितविविधमृगपक्षिसंघं: Panic & Painful conditions of various animals, birds.
- उत्सृष्टनष्टधर्मसत्यलज्जाचारशीलगुणजनपदं: Community devoid of virtue, truthfulness, modesty, conduct, behavior.
- शश्वत्क्षुभितोदीर्णसतिताशरा: Constantly agitated and over flooded water bodies.
- प्रततोत्कापातनिर्धातभूमिकम्पमतिभयारावरूपं: Frequent fall of Meteor, Earthquakes, fierce appearance.
- হৃত্ত্বনাদ্র্রারুত্তামিনায়ব্ররালেমব্র্রার্কবন্দ্ররাহক্রিঞ্চিদ: Sun, moon & Stars with rough, coppery, reddish white, cloudy appearance.
- 3. Kala (Season)
- कालं तु ख्वलु यथर्तुलिङ्गात्विपरीतलिङ्गमतिलिङ्गहिनलिङ्ग चाहितं व्यवस्थेत्....(च.वि. ३/६)

Having signs contrary, excessive or deficient to those of the seasons.Ex. Rituviparita Lakshanas – Varsha in Grishma Ritu.

Prevention

'विगुणेष्वपि	खल्वेतेषु	जनप	दोध्वंसकरेषु	भावेषु
भेषजेनोपपाद्यम	गनानामभयं	भवति	रोगेभ्यइति	(च.वि.
3/8) ^[7]				

'Prevention is better than cure' is the basic concept of Ayurveda. Curing a diseased person and redefining his healthy status, is the primary goal of a physician. It is the science which laidemphasis on the preventive aspect. So therefore as a preventive therapy we have to boost immunity of the persons against the diseases. It can be boost through the various Ayurveda Modalities & principles like.

- Implementation of Dinacharya (daily regimen), Ritucharya (Seasonal regimen), Ratricharya (Night regimen).
- Rasayana therapy, Regulation of Aachara rasayana.
- Follows proper and regular Sadvritta.
- Shodhana as per Ritu and Dosha vitiation.
- Chyavanprasha, Pippali rasayana, Kshira + Ghrita sevan ('क्षीरघृताभ्यासे रसायजाजाम्।).
- Proper Aahara & Vihara sevana.
- Drugs for the treatment and prevention of Janapadodhvamsakara Vyadhi shoul be collect before the loss of its Rasa, Virya, Vipaka, Prabhava etc.
- Dhoopana Chikitsa

Naturally, vitiation of season is most difficult to rectify. Similarly vitiated air, water & land are progressively difficult to purify.

Chikitsa of Janapadodhvamsa Vyadhi :

'कर्म पञ्चविधं तेषां भेषजं परमुच्यते | रसायनानां विधिवज्जोपयोगः प्रशस्यते || (च.वि. ३ / १३-१४)^[8]

- **Panchakarma:** it is one of the important & Detoxification therapy which is done according to the correlation of dosha vitiation and its related Ritu.
- **Rasayana therapy** (**Rejuvenation**)^[9]: it helps to enhance Immunity power and restores physical health.
- **Satyavachana:** Truthfulness about every work and situation.
- **Bhute Daya:** Compassion for living beings.
- **Danam:** Donation, Charity.
- **Bali:** Sacrifices. It all comes under the Treatment part of Daivavyapashraya Chikitsa.
- **Devatarchana:** Prayer to the gods.
- **Sadvritta**^[10]: Code of good conduct. It helps to enhance Positivity, Consciousness of Mind & increases Satva guna in body. One Conscious mind can helps to make or alters the consciousness in whole words.
- **Observance of Brahmacharya:** It includes in Trayopasthabha, which are important to build health of both Mind & Body.
- Sankatha Dharmashastranam: Reading, listening of Religious stories & Books.
- In the present scenario following rules & regulation laid by the government, not involving with antisocial elements & activities which destroy the society. In other words enhancing Satva guna leads to prevention of Janapadodhvamsa.
- Relief operations during natural calamities like floods, cyclones, land slides, earthquakesin the form

supply of food, medicine, cloth shelter etc are needed.

• For the prevention of Janapadodhvamsa in the form of pollution of air, water, land and season, the strict implementation of legislation is necessary. Department of Health & Welfare has a key role in prevention.

CONCLUSION

Now a days we all are going through the most important duration of epidemiology. For that in Ayurveda a many years ago Acharya explained about Janapadodhvamsa and its pathology, Nidanas & Chikitsa. Today we are facing a very huge problem all around the world. The world is under the threat of COVID – 19. According to Ayurveda Covid - 19 may included under the headings of 'Aagantuja Vyadhi'or 'Vishamajwara¹'. Also it Is included in 'Janpadodhvamsa vyadhi. In Ayurveda, the management of Janapadodhvamsa janya vyadhis are mentioned. If we are regulates our lifestyle as per nature, then nature will also helps to cure us.

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Review Article

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CONCEPT OF SWARNAPRASHANA IN AYURVEDA – A REVIEW ARTICLE

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ABSTRACT

Ayurveda is the science which mentioned various principles for prevention and treatment of disease. 'Prevention is better than cure' is the basic concept of Ayurveda. Ayurveda has adopted holistic approach to maintain healthy and long life.^[1] In Ayurveda there are various principles described for maintaining healthy life. Ayurveda has many unique and important concepts are mentioned. In which in Ashtanga Ayurveda^[2]; there is description about 'Balaroga and its Chikitsa'; which is mentioned as 'Kaumarbhritya'. In Balaroga or Kaumarbhritya 'Swarnaprashana' is one of the important concept described. Which is very useful and important in children's. administration of processed Gold in children is a unique practice mentioned in Ayurveda as 'Swarna prashana'. It improves digestion, metabolism, physical strength, immunity, life span and improving

intellectual power.

KEYWORDS: Swarnaprashana, Ayurveda, Kaumarbhritya.

INTRODUCTION

Ayurveda is a science of life. In Ayurveda has explained various different and important treatment modalities for healthy life. Administration of processed gold in children is a unique practice mentioned in Ayurveda as "Swarna prashana^[3]" by Acharya Kashyapa thousands of years back. Kashyapa mentioned the 'Swarana prashana' under the heading of Lehana. It is one of the important feature of Kashaypa Samhita. Swarna prashana is considered as 'Medha vardhaka'.

Acharya Kashyapa, Sushruta & Vagbhata^[4] has mentioned the concept of Swarna prashana in Jatakarma Sanskara of children. Ideally, Swarna prashana is explained as an activity which has to be done immediately after birth i.e. Jatakarma sanskara. It is meant for development of intellectual of the child. Acharya Sushruta explained Jatakarma sanskara^[5]; means administration of Swarna with ghrita and madhu. A strong foundation for proper growth and development of the body has to be set during the prenatal stage as well as during the Balya Avastha. Swarna prashana hence has to be started at 0 years i.e. immediately after birth and can be continued up to the age of 16 years.

METHODOLOGY

In Children's Swarnaparshana is the important concept mentioned in Ayurveda. Swarna prashana is unique method of immunization which helps the children to boost up the intellectual power and produces non specific immunity in body to fight against general disorders. It is also helpful even to the special children with Autism, Learning difficulties, Attention deficit, Hyper activity, Delayed milestones, etc.

Period of Swarna prashana

- Monthly once for 30 months, given on Pushya nakshatra.
- Daily dose of Swarna bindu prashana should be given for minimum for 1 month and maximum for 3 months.

Dose of Swarna prashana: 2-4 drops.

Age of children for Swarna prashana^[6]: From birth up to the age of 16 years.

Time of Swarna prashana^[6]

The best suitable time to give Swarna prshana to children is early morning before sunrise.

Ingredients of Swarna prashana: Ash of Gold, Vacha, Shankha pushpin, Brahmi, Guduchi satva, Yashtimadhu, Ashwagandha, Honey.

Benefits of Swarna prashana^[7]

- Medha vardhaka Regular dose of Swarna prashana improves child's intellectual power, Grasping power etc.
- 2. Agni vardhaka Increases Digestive power & helps to reduce digestive complaints.

- 3. Bala vardhaka Increases physical strength, General growth of the baby (Height & weight).
- 4. Ayushya It helps to boosts immune system and make baby healthier & stronger.
- 5. Mangalam It gives long, spiritual life.
- 6. Punyam.
- 7. Vrushyam.
- 8. Varnya Tones up skin colour and texture.
- 9. Graham badha nshaka.
- 10. Masat Param Medhavi Improves span of attention, concentration & memory in 1 month.
- 11. Shadabhirmase Shrutadhare Enhances a child's learning ability and grasping power if taken for 6 months.
- 12. Prevents from various allergies and infections.

Mode of action of Swarna prashana

- Swarna is precious in Ayurveda as described. Swarna is converted into Swarna bhasma; which has moisturizing & unctuous effect on body.
- It is Madhura, Rejuvinative and Immune booster.
- Improves growth and complexion of the body.
- It causes detoxification of the body.
- It has been proved that Swarna bhasma possesses Anti-oxidants, Anti-bacterial, Anti-rheumatoid, Anti-depressive property.
- Swarna bhasma is accelerate the growth of brain and boosts up its utilization capacity.

Swarna kalpa according to Sushruta^[9]

He has describes four Swarna kalpa, which enhance immunity, helpful in proper development and growth and enhances the intellectual activity. Which are.

- Swarna bhasma, Kushtha, Vacha, Brahmi, Honey, Ghrita.
- Swarna bhasma, Shankhapushpi, Brahmi, Honey, Ghrita.
- Swarna bhasma, Arka pushpa, Vacha, Honey, Ghrita.
- Swarna bhasma, Kaidarya, Durva, Honey, Ghita.

1829

Lehana karma in Ayurveda^[9]

In ayurveda the essence of all dhatus is known as 'Ojas' and it is responsible for the defence of human body against diseases. In modern medical science, vaccination is done to produce immunity against a disease. Acharya Sushrutra, Vagbhata and Kashayapa described Lehana for this purpose which ultimately enhances immunity. Lehana karma and Rasayana are done to enhance growth and development by providing sufficient nutrition and promoting health with improving intellect and speech. Rasayana are rejuvenating agents which produce resistant against disease. Different types of herbs and formulations are described in Ayurveda for boosting immunity.

CONCLUSION

Ayurveda helps to promote the health and prevention from various diseases. The main aim of Ayurveda is to prevent from diseases and helps to maintain proper health. Kaumarbhritya is one of the important part of the Ayurveda. In this various concepts are described for boosting immunity. Swarna parshana is one of the important and unique concept mentioned in Ayurveda. It helps to improve physical as well as mental health of the child. It has many benefits. Now a days it is very important for every children to improve his or her intellectual power, mental health and helps to boosts immunity. Mainly it is done during the Jatakarma sanskaras but can be given up to the age of 16 years. It has benefits like improving memory, helps to improve growth of the brain and body. In this era, it is important for every children.

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Study of The Vishaghna Property of Nirgundi on Pesticide Sprayed Cauliflower

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Abstract :

Vegetables are important part of a healthy diet. Cauliflower is a vegetable which is rich in nutrients and is commonly consumed in Indian household. It is also frequently sprayed with pesticides. And even after washing with tap water, most of the residue remains on the vegetable. So there is need to wash the vegetable with solution like Nirgundi Kwatha which may reduce toxic residues.

Keywords : Cauliflower, Nirgundi Kwatha, Pesticide residues

Introduction:

Agad Tantra is the branch of Ayurveda which deals with the diagnosis, symptoms and treatment of poison and the methods of detecting them. In this new era, it also deals with the study of variety of chemicals such as pesticides, preservatives etc. and their hazardous effects on human health.

Now days, the crops are sprayed with pesticides. But its indiscriminate use leads to problems such as toxic residues in food materials. When human beings consume this toxified food materials, they become victim of their poisonous effects. So there is need of washing and cleaning the fruits and vegetables with such solution which may nullify or reduce toxic residues.

Charakacharya has mentioned Vishaghna Gana. Sindhuvaar i.e. Nirgundi is one of them. It is also mentioned as Krimihara. Cauliflower is commonly consumed in Indian household. It is generally attacked by Diamond back Moth Insect, so it is usually sprayed with Chlorpyrifos pesticide. So a study was planned to observe whether the toxic residues are nullified or reduced after the Dhavana of Cauliflower with Nirgundi Kwatha.

Aim and Objectives:

Aim:

To study the Vishaghna property of Nirgundi on Pesticide sprayed Cauliflower.

Objectives:

1. To study the Vishaghna property of Nirgundi on Pesticide sprayed Cauliflower.

2. To analyse the pesticide residues sprayed on Cauliflower before and after Dhavana with Nirgundi Kwatha.

Material and Methods:

Type of study – Observational Analytical study **Material:**

The following materials selected and authentified for the study. Vegetable : Cauliflower Dhavan dravya : Nirgundi Kwatha

Methodology :

Nirgundi collected and authentified and cauliflower personally collected from one farm source.

- They were divided into 3 groups each containing 10 samples of Cauliflower
- Group A: 10 samples of Cauliflower were analysed as it i.e. without Dhavana.
- Group B: 10 samples of Cauliflower were analysed after Dhavana with Tap water.
- Group C: 10 samples of Cauliflower were analysed after Dhavana with Nirgundi Kwatha.

Preparation of Kwatha :

The preparation of Nirgundi Kwatha was done as per the procedure mentioned in Sharangdhar Samhita madhyam khanda adhyay 2.

Analytical test :

Multi residue method for pesticide analysis – Gas Chromatography-Mass Spectrometry were performed.

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Observation: Observations of Pesticide residue analysis			References: 1. Dr. Bramhanand Tripathi ;Charaka Sam						
Sample nos	Sample A (mg/kg)	Sample B (mg/kg)	Sample C (mg/kg)		2006.	hambha Surbharti Pr	· •		
1	0.014	0.006	BLQ i.e.0.001	2.	Chawk	bhavamisra; Bhavprak hambha Bharati Acad			
2	0.012	0.008	BLQ	3	1993. Km	Nadkarni; Indian Materia	n Madica Voluma		
3	0.014	0.006	BLQ	5.		Bombay popular praka			
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5	0.013	0.008	BLQ	4.	-	Srivastava; A Textbo	ook of Applied		
6	0.015	0.006	BLQ			ology; Kalyani publisl			
7	0.012	0.008	BLQ	11	edition				
8	0.013	0.007	BLQ	OISC5.	https://	en.m.wikipedia.org/wiki	/cauliflower		
9	0.014	0.007	BLQ	r	- na	Ar.			
10	0.012	0.006	BLQ			"J			

Conclusion :

Mean

0.0132

1. The study was analytical observational study

0.0069

BLQ

- 2. The mean values of cauliflower before Dhavana were found to be 0.0132
- 3. The mean values of cauliflower after Dhavana with Tap water were found to be 0.0069
- 4. The mean values of cauliflower after Dhavana with Nirgundi Kwatha were found to be BLQ. BLQ means below the level of quantification i.e. 0.001.
- 5. After Dhavana of pesticide sprayed Cauliflower in Nirgundi Kwatha, it was observed that the residue levels were decreased to such extent that it was not even detected.
- 6. So it can be stated that Nirgundi possesses Vishaghna which property reduces concentration of pesticides.

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AYURVEDIC MANAGEMENT OF ANKYLOSING SPONDYLITIS-A CASE STUDY.

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ABSTRACT

Ankylosing spondylitis (AS) is a rheumatic disease with various skeletal and extra skeletal manifestations which belongs to a group of rheumatic diseases known as the spondylo arthropathies (SpA), which show a strong association with the genetic marker HLA-B27. Ankylosing spondylitis (AS) is a chronic, systemic, inflammatory disease which affects primarily sacro- iliac joints and spine Inflammatory back pain and stiffness are prominent early in the disease, whereas chronic, aggressive disease may produce pain and marked axial immobility or deformity. From the Ayurvedic perspective, the disease can fall under Asthi majjagata vata, which may be effectively managed when intervention is started in its early stages. No satisfactory treatment is available in modern medicine for this disorder. Various Panchakarma procedures and Ayurvedic drugs have been proved useful for these manifestations. We present a case of AS, which was treated for two months with a combination of Panchakarma procedures and Ayurvedic drugs. Ayurvedic treatments, in this case, were directed toward alleviating symptoms and to reduce severe disability. The patient was considered suffering from Asthimajja gata vata.

KEYWORDS: Ankylosing spondylitis, Asthimajja Gata Vata, HLA B27.

INTRODUCTION

Greatest number of vyadhi in ayurveda is vatavyadhi, so almost all vyadhi contains the main vata dosha. Pitta & Kapha has inert property without the vata dosha, so all vyadhi nidan some parts have vata dosha. In asthiasthi-majja majjagata vata forms kshav. Dhatukshayatmak samprapti is done with nirupstambhit vata in Asthi majjagata vata.^[1] Ankylosing Spondylitis is classified along with the Seronegative Spondyloarthritis disease. Ankylosing Spondylitis is a chronic, systemic, inflammatory disease that affects primarily the sacroiliac joints and spine. Certain peripheral joints and tendons can also be affected, and extra-articular manifestations may be present. It typically affects young adults and male-to-female ratio is closer to 3:1. The median age of onset is 23 years. The aetiology of Ankylosing Spondylitis remains unclear.^[2] Around 0.25% population in India is estimated to be affected by these diseases. Early diagnosis is the key to successful management. The pathogenesis of Ankylosing Spondylitis remains unclear to date. It is assumed to be immune mediated. There is an obvious cytokine role, because patients show improvement with anti tumour necrosis factor α (anti TNF α) agents.^[3] Non-steroidal anti- inflammatory drugs (NSAID), corticosteroids and various disease modifying antirheumatic drugs (DMARDs) are used to treat/manage AS. However, these treatments are of limited benefit. Corticosteroids are associated with numerous side effects, especially when given systemically over long

periods of time. No effective disease modifying treatment has been established for AS.^[4] Various panchakama procedures and internal Ayurvedic medicines have been proved beneficial in the management of AS.^[5]

CASE STUDY

A 18-year-old Indian, unmarried, nonsmoking, nonalcoholic male patient consulted in Out-Patient Department for a complaint of gradually progressive lower back pain along with stiffening and deformity of the spine and hip from 7 months. The pain was insidious in onset which aggravates during night, early mornings and after exposure to cold or in cold seasons. Morning stiffness lasts for few hours and gradually improves with activity.

Clinical findings

The patient had several episodes of lower back pain, followed by spinal stiffness in the morning. The patient also had pain in Right leg while having difficulty in walking. Neck movements were restricted, and both upper limbs had a movement range up to 45°. On examination, the patient was found to be anxious with disturbed sleep, had a moderate appetite, Vishmagni (unstable digestive functions), Krura Kostha (bowel hard to purgate) with normal micturition. The tongue was clean, the voice was clear, and skin roughness was prominent. Patient had Vatapitta prakriti with Madhyam (medium) Sara (purest body tissue), Madhyam Samhanana (medium body built), Sama Pramana (normal body proportion), Madhyam Satmya (homologation), Madhyam Satva (mental strength), Avara Vyayamshakti (least capability to carry on physical activities), Madhyam Aharshakti and Jaranshakti (medium food intake and digestive power). Asthivaha Srotodusti (pathology in bone) and Majjavaha srotodusti (pathology in bone marrow) were more prominent.

Past history

There is no any past history of HTN, DM, TB, Peptic ulcer or any endocrinedisorder.

Investigation

MRI Lumbo sacral scan screening shows

- Mild anterio listhesis of L5 over S1 vertebra with bilateral spondylosis.
- Partial disc desiccation, mild bulge a4_5 &L5-S1 levels causing Effasement over thecal sac.

Screening MRI cervical dorso spinal reveals partial disc desiccation at C5-6 level.

Screening MRI PBH reveals- Hyper intense signal Intensity in bilateral sacro-iliac joint suggest bilateral acute sacro-illitis more on right side.





Lab investigation

HLA-B27 associated with ankylosing spondylosis shows positive.

Treatment

The patient was first explained the need of Shodhan therapy. Pathyapathyais followed completely. The details of Treatment protocol are as follows.

Shodhan

- 1) Avagahan swedan (Dashmoola + Nirgundi kwath).
- 2) Vaitaran Basti -

Anuvasan Basti – Brhat saindhavadi tail

Niruh Basti – Vaitaran Basti. For 14 days

Shamana

- 1) Simhnaad guggulu 2 tab BD.
- 2) Rasnasapthak kashaya 20ml BD.
- 3) Shad dharan choorna 3gm BD with luke warm water.
- 4) Ashwagandha +Guduchi +Rasna + Shatavari + Shunthi – kadha 1spoon each BD

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- 5) Musta Ghana vati 2 tab BD.
- 6) Mansadi kwath 40ml BD.
- Advise Physiotherapy.

- Lumbar Traction 25kg OD. This treatment is given for 15 days.

OBSERVATION

In the treatment period, the patient had not taken anything except these medicines. Assessment criteria were based on the cardial symptoms as.

Observation	Before treatment	After Treatment		
Kati shoola	+++	+		
Prustha shoola	+++	+		
Sakashtha chakraman	++	+		
Dakshin paad shoola	++	+		

DISCUSSION

Consequently treatment was planned first to remove the Ama (undigested matter) by improving digestion with Deepana and digesting the Ama with Pachana ones. Basti is mentioned in vitiation of all the Vata, Pitta, Kapha, and Rakta Dosha.^[6] It is specially indicated for Vatika disorders.^[7]

Simhanada guggulu augments the Agni and is indicated in Amavata. Rasna is indicated in Kati graha, shoola and Prustha shoola. Rashna Saptak is Vata Shamana (pacifying)in action and also acts as Analgesic. Guduchi and mixture helps in Ama Pachana due to presence of Tikta Rasaand act as Rasayana.

CONCLUSION

The Ayurvedic diagnosis of 'Asthi-majja gata vata' is made for 'Ankylosing spondylitis' in present case. Various Ayurvedic panchakarma procedures and internal medicines have provided promising results especially in reducing the pain, decreasing the severity of deformities and also improving quality of life within short time and without causing any adverse effects in present case.

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Abstract -

Respiration is the evident feature of life which is carried out by Prana vayu. This sole sign of life is affected in this disease Tamaka Shwasa, causing an impediment to the Respiratory function. Shwasa word indicates both physiological and pathological state of respiration. Ayurvedic texts have mentioned Tamaka Shwasa under the various types of Shwasa roga. Disease Tamaka Shwasa can be correlated with the disease Bronchial Asthma on the basis of its features & etiopathogenesis. Tamaka Shwasa is considered as Yapya (palliable) because this type of Shwasa roga is not only difficult to treat but also has a repetitive nature. Bronchial Asthma calls the attention of Medical world due to significant burden in terms of health care costs as well as lost productivity and reduced participation in family life. The Science of Life – Ayurveda is the best way to effectively & safely manage the condition without inducing any drug dependency where various Shodhana procedures and use of internal medication not only detoxifies the body but also provides nutrition & increases the elasticity of lung tissue & develops natural immunity of the body thus decreasing episodic recurrence of the disease and providing long term relief to the patient.

Keywords: Tamaka Shwasa, Bronchial Asthma, Shwasa roga.

Introduction -

Т

amaka Shwasa is one of the five types of

disease Shwasa. The signs, symptoms and etiopathogenesis of Bronchial Asthma explained in modern science have a lot of similarities with the disease entity Tamaka Shwasa. The main features of Asthma are breathlessness, chest Bronchial tightness, wheezing and cough. Bronchial Asthma is a major global health problem, which can affect the population irrespective of age, sex, economic status, etc. It is very common at all ages but predominantly in early life. The prevalence of Bronchial Asthma is increasing alarmingly now a days due to excessive pollution, overcrowding, occupational conditions, stress and poor hygiene etc. Both Ayurveda and modern medical Science agree regarding the Nidana of the disease as host factors (Nija Hetus-Dosha dushti and Ama) and Environmental factors (Agantuj Hetus - Raja, Dhuma, Pragvata, etc). It can be easily correlated with allergic condition. Nidana Parivarjan hence plays a key role in the management strategy in both sciences.

The current management of Tamaka Shwasa (Bronchial Asthma) by modern medicine is only providing short term symptomatic relief but does not provide any long term relief to the patient. On the other hand prolonged use of these drugs are not safe, as it has many adverse effect with systemic manifestation and as the chronicity increases drug dose dependency increases & dialates the lung tissue to such an extent that at last it leads to respiratory failure. In present scenario Ayurveda is the best way to effectively & safely manage the condition without inducing any drug dependency where use of various shodhana procedures and use of internal medication not only detoxifies the body but also provides nutrition & increases the elasticity of lung tissue & develops natural immunity of the body. Thus decreasing episodic recurrence of the disease and providing long term relief to the patient.

Ayurvedic Aspect of Tamaka Shwasa-

Tamaka Shwasa comprises of two words i.e. Tamaka and Shwasa. The word 'Tamaka' is derived from the Dhatu "Tamglanou" which means Sadness (Panini). According to Vachaspatyam the word Shwasa is derived from the root word 'Shwas' Dhatu by applying Ghanj Pratyaya. It implies for both Vayu Vyapara & Roga Bheda. It represents both physiological as well as pathological respiration and used for expression of word.

The disease is called Tamaka as attack of the disease precipitate during night and during the state of attack dyspnoea becomes so severe that patient feels entering into the darkness. Main causative factors responsible for Tamaka Shwasa are Dhuma (smoke), Raja (dust), Ativyayama (excessive exercise/work). Sheeta sthananivasa (residing in cold areas), Guru bhojana (heavy diet) and Sheeta bhojana (cold food/drinks). These factors lead to the vitiation of Vata which in turn vitiates Kapha leading to vitiation of Rasa and impeding the function of Pranavata. According to our Ayurvedic literature vata is captured by the Aavrana of kapha in this disease. Acharya Charaka has mentioned that Tamaka Shwasa is kapha-vataja vikar and site of its origin is pitta sthana. In Sushruta Samhita, Madhava Nidana and Yogratnakar it is mentioned that Tamaka Shwasa is Kapha predominant disorder. When going through the lakshnas of Tamaka Shwasa in our Ayurvedic literature our Acharayas has told Gurghurkam(audible wheezing), Pinasa(coryza), Shirogaurava (heaviness in head region), kricchat bhashitum (difficulty in speaking) etc. all the Lakshnas showing Kapha predominancy. Tamaka Shwasa in general is described as yapya (palliable) disease. However in individual with recent origin of disease, person of pravarabala or both said to be sadhva.

Maharshi Charaka has mentioned two-allied stages of Tamaka Shwasa known as two types or further complication of disease proper i.e. Pratamaka and Santamaka. Sushruta and Vagbhata have only mentioned the name as Pratamaka, which includes manifestation of Santamaka. Patients clinical suffering from Tamaka Shwasa when gets afflicted with fever and fainting, the condition is called as Pratamaka Shwasa. It is suggestive of involvement of Pittadosha in Pratamaka Shwasa. It is aggravated by Udavarta, dust, indigestion, humidity (Kleda), suppression of natural urges, Tamoguna, darkness and gets alleviated instantaneously by cooling regimens. When the patients of Pratamaka Shwasa feels submerged in darkness, the condition is called Santamaka Shwasa. While describing the as Acharya Charaka has clearly management

mentioned the importance of Nidana parivarjana along with Shodhana and Shamana chikitsa as mentioned below.

Management Of Tamaka Shwasa-

NIDANA PARIVARJANAM: Chikitsa is defined As Nidanparivarjana avoidance of causative factors.

Ayurveda basically being emphatic about Swasth rakshanam give priority to prophylactic management. This is very much applicable in the case of Tamaka Shwasa. The aagantuk hetu have to be avoided in the first place. Being a yapya roga avoidance of triggering factors and providing quality of life with minimum medication is the aim of Asthma management. Charaka says, the primary importance in Shwasa Chikitsa is the avoidance of causative factors. Both Ayurveda and Modern scientist agree to this fact.

The management of Tamaka Shwasa has two aspects:

- 1. Management of Vegavastha of Tamaka Shwasa; i.e. acute exacerbations, and
- 2. Chronic management of the Avegavastha, where the frequency, duration and intensity of the attacks are minimized / totally cured to give a quality life to the patient.

1. VEGAVASTHA:

In Vegavastha Charaka, Sushruta, Vagbhata, all the Acharyas have emphasized on the Shodhana therapy in the starting of Chikitsa and after that use of Shamana yogas. Patient who is in Vegavastha should be first anointed with salted oil and then subjected to sudation either by methods of steam (Nadi Sweda), hot bed sudation (Prastara) or mixed sudation. This is a specific condition where Sneha with Lavana is indicated. In Snehadhaya Charaka has mentioned properties of Salavana Sneha. It supervenes within short period of time because both of them are having Sukshma property hence having greater penetration power. It is also having Doshasanghata Vicchedakara property. Taila is having Ushna property, and thus alleviates Vata, and does not increase Kapha, therefore it is better for Abhyanga. In Shwasa Grathita Kapha (Mucous plug) is present; and Salavana Sneha is useful in Vilayana of this Grathitha Kapha, thereby removing

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the Sanga (Obstruction of airway). Once the Kapha is removed from airways, it flows back to its base in Amashaya from where it isexpelled out by Vamana. After a classical Vamana therapy, the left out Dosha has to be eliminated by fumigation therapy or Dhupana.

2. AVEGAVASTHA:

In Avegavastha due consideration should be given to avoid pathogenesis which further leads to exacerbations. However, Acharya Charaka has divided the patients of Shwasa into two categories.

- 1. Those who are strong and with predominance of Kapha.
- 2. Those who are weak and with predominance of Vata and who are un-unctuous.

The choice of management of Shwasa in Alpabala patient is Tarpana and Shamana. Shodhana therapy should be administered only if extremely essential, if the patient is having good Dehabala and Satwabala, and when all other measures fail. In the last shloka of Shwasa chikitsa, Acharya Charaka says Brimhana is considered the best option compared to shamana and karshana when treating Tamaka Shwasa patient.

In the Shamana Chikitsa the used drugs should be Vatakaphaghna, Ushna and Vatanulomana. Also he said that, any remedy which aggravates vata and pacify kapha or which pacify vata and aggravates kapha or which pacifies both vatakapha or which pacifies only vata should be used for the management of Tamaka Shwasa.

Sushruta has described different medicated ghrita-kalpana for Shamana Chikitsa. Acharya Sushruta has advised to do both Vamana, Virechana in Shwasa management while Acharya Charaka has described first Vamana in Shwasa may be as an emergency and after that Virechana with Vatashleshmahara dravya especially for Tamaka Shwasa in between the two attacks or avegavastha. Virechana is best for Srotoshodhan and Pitta Shamaka Chikitsa and the Pitta sthana Samudbhava of Shwasa Roga can be explained in the terms of the importance of Ama in the Samprapti, which is produced in Adho-Amashaya, may be duodenumthe main site of digestion, which is explained as the Pitta Sthana by Chakrapani-datta. Hence, the specific management of Tamaka Shwasa according

to Charaka is Virechana. Keeping in mind the Samprapti of Tamaka Shwasa, the ultimate aim of treatment should be to clear out the Pranavaha Srotasa, pacify Vata and remove the blockage due to Kapha.

According to Vagbhata following is main principle of treatment:

1. Balvana -kaphadhika - Karshana chikitsa

- 2. Durbala- bala- Brimhana
- 3. Vriddha Shamana Chikitsa

The author of Yogaratnakar has mentioned that except Snehavasti, all other methods of Shodhana Chikitsa should be adopted in Tamaka Swasa. (Yoga Ratnakar. Swa.chi.1)

Shamana Yoga

For the management of Shwasa, Acharya Charaka has given 10 drugs under Shwasahara Mahakashaya: Kachur, Pushkarmoola, Amlavetas, Choti-ela, Hingu, Agar, Tulsi, Bhumyalaki, Chanda (Chorpushpi) and Jeevanti and 10 drugs in Kasahara Mahakashay: Pippali, Kasamarda, Kantakari. Brihati, Agastya, Karkatshringi, Tulsi, Vasa. Vanshlochana, Dalchini, TalispatraAcharya Sushruta has described various kind of drugs under Vidarigandhadi varga, Sursadi gana and Dashmul gana for the management of Shwasa roga.

Different forms of commonly used preparations, given in different Ayurvedic samhitas, for the management of Tamaka Shwasa can be summarised as follows:

Churna: Sitopaladi Churna, Talisadi Churna, Muktadya Churna, Sauvarchaladi churna, Shatyadi Churna, Krishnadi Churna, Paushkaradi Churna, Shunthyadi Churna etc.

Kwatha: Dashmuladi Kwatha, Bharangyadi Kwatha, Vasadi Kwatha, Sheerishadi Kwatha, Amritadi Kwatha etc.

Vati: Vyoshadi Vati, Marichyadi Vati, Khadiradi Vati, Lavangadi Vati etc.

Awaleha & Leha: Kantakari avaleha, Chyavanprasha, Vasa haritakya leha, Chitraka – haritaki avaleha, Haridradi leha etc.

Ghrita: Manahshiladi Ghrita, Vasa Ghrita, Shatpala Ghrita, Tejovatyadi Ghrita, Dashmuladi Ghrita.

Kshara: Arka Kshara, Apamarga Kshara, Ashvagandha Kshara etc.

Aasava-Arishta: Kanakasava, Pathadyasava, Somasava etc.

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Bhasma-Rasa: Abhraka bhasma, Shringa bhasma, Shwasa kuthar rasa, Shwasa-kasa-chintamadi rasa, Laxmivilas rasa etc.

Yavagu & Yusha: Dashmuladi Yavagu, Hingvadi Yavagu, Pushkaradi Yavagu, Rasnadi Yusha, Kasmarda Yusha.

Dhumpana & Nasya: Chandana dhumpana, Guggulu dhumpana, Haridradi dhumpana, Lashunadi nasya.

PATHYA –APATHYA in Tamaka Shwasa -PATHYA:

Annavarga: Mudaga, Yava, Kullatha, Purana Shashtik, Rakta shalidhanya, Wheat.

Shakavarga: Paraval, Jivanti, Chaulai

Phalavarga: Bimbiphala, Jamberiphala, Nimbu, Draksha, Amalaki, Amlavetas, Bilva, Amlarasa, Pakva- kushmanda.

Dugdhvarga: Ajadugdha, Ghrita, Puranghrita.

Mamsavarga: Jangala maans rasa, maans of tittar, lava, deer, shooka, rabbit. Peya: Ushna jal, madhu , arishta, go mutra, sauviraka.

Vihara: Diwaswapna, Pranayama, Ushnajala Snana, Avagha- swedana, Abhyanga, medicated dhoompana.

APATHYA:

Annavarga: Rukshanna, Guru and vishtambhi Aahara, nishpava, masha, kaphavata vardhak aahara. Phalavarga:kela, Apakvakushmanda.

Dugdhavarga: Dadhi, Unboiled milk. Maansavarga: Matsya, Anuo maans. Peya: Sheetjal, Dushita jal Shakavarga: Kadwa Shaka, Surasaya

Vihara: Exposure to cold, dust, pollution, atibharkarshan, vyayama, excess indulgence in sexual activities, tension and suppression of natural urges.

Conclusion-

Prevalence of Bronchial Asthma is increasing alarmingly due to excessive pollution, overcrowding, occupational conditions, stress and poor hygiene etc. These etiological factors acts as aggravating factors in developing acute attacks of asthma mostly in atopic individuals. Therefore, Nidana parivarjana has got a significant role to play in the management of the disease Tamaka Shwasa. Also, various principles of Ayurveda and many a formulations can be used according to Roga & Rogi bala, during Vegavastha & Avegavastha and as per palatability of the patient for free flow of prana vayu so that srothorodha is removed and free flow of prana vayu may occur thereby curing the attack of disease Tamaka Shwasa.

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	Eff	and af Sal	aabaradi '	Faila Matra Basti	in Managamant			
	Effecacy of Sahacharadi Taila Matra Basti in Management of Neurogenic Bladder: A Case Study							
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Abstract-

Brain, spinal cord and peripheral nerves control the process of micturition by exerting control over muscles and sphincters of urinary bladder. Neurogenic bladder is a type of dysfunction caused by damage to this control mechanism due to myelopathies, injuries, diseases of the brain, diabetes, alcoholism, vitamin B12 deficiency, post operative complications etc. The symptoms range from detrusor under-activity to over-activity, which includes but not limited to dribbling stream and inability to fully empty the bladder. As per Ayurveda, Apana vayu dushti (~dysfunction in the Apana vata i.e. located in lower abdomen parts and governs their function) is responsible in retention of urine and it can be correlated as Basti kundala explained under the thirteen types of Mutra ghata (~urine obstruction). A 45 years old female patient presented with chief complaints of increased frequency of urination, uncontrolled urine associated with dribbling of urine at the end of micturition, no satisfaction after urination she feel fullness of bladder after micturation. She also complained of abdominal distension throughout the day. She was treated with Tila taila anuwasan and Dashmula kwatha niruha Yoga basti (~rectal enema), administered for 8 days, after that sahacharadi taila matra basti (~rectal enema) after which the symptoms were reduced.

Key Word- Basti Kundal, Apanavayu, mutra ghata

Introduction-

N eurogenic bladder is a term applied to urinary

bladder malfunction due to neurological damage to the nerves that governs the urinary tract emanating from internal or external trauma, disease or injury.1 Normal micturition involves proper function of both the bladder and urethra. A detrusor of normal compliance and a physiologically competent urethral sphincter are both necessary to maintain urinary continence. Normal micturition involves passive, low pressure filling of the bladder during the urine storage phase while voiding requires coordination of detrusor contraction with internal and external urinary sphincter relaxation. The spinal cord controls micturition reflex by the sympathetic and parasympathetic nervous system; brain controls normal micturition with urinary continence by holding urine through pontine storage center and facilitate urination by pontine micturition center. There are two types of neurogenic bladder viz. spastic (hyper reflexive) and flaccid (hypotonic). In case of lower motor neuron lesion or any sacral injury or spinal shock, signals do not reach up to brain due to disruption of sensory fiber, hence urine occurs drop by drop known as overflow incontinence. While in upper motor neuron lesion detrusor hyperreflexia occurs which results into urge incontinence. In Ayurveda, a similar condition, Basti kundala is described under thirteen types of Mutra ghata. This condition is characterized by retention of urine in the bladder, leading to its distension. When Apana vata is associated with Pitta dosha, it causes burning sensation and distress on passing urine with yellow discoloration and when associated with Kapha dosha, it causes bladder distension with turbid urine. In contemporary science, for most types of neurogenic bladder, treatment essentially involves use of indwelling catheters, which certainly increases the risk of urinary tract infections, ascending pyelonephritis and bladder injuries. Those cases requiring surgery are further exposed to risk of recurrence and trauma. Even those on medication are subjected to side effects, which are unavoidable. Moreover, a definitive treatment is not guaranteed by any mode of management. A better management

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protocol can be introduced through Ayurveda in terms of lower risk of complications due to treatment and advantage of targeting the root pathology through Ayurvedic principles of management. A general line of treatment mentioned in all types of Mutra vikara (urinary disorders) is Basti and Uttar basti.

Case report-

A 45 years old female patient presented with chief complaints of frequent urination (15-20 times in 24 hours) associated with dribbling at the end of micturition, fullness of bladder after micturation, with feeling of abdominal distension since four months. Patient was apparently asymptomatic till one year back when she developed slow onset of low backache. she was diagnosed to be a case of neurogenic bladder and was on allopathic treatment for his symptoms with partial relief and recurrences. After four months, she further developed increased frequency of urination along with turbid urine and smell in urine. Her hysterctomy opertive done before 18 yrs back. she comes with above symptoms.

Personal history-

Appetite and thirst were normal. She was presented with constipated bowels, turbid micturition, smell of urine and disturbed sleep. The patient found to be Vata kapha prakriti with Krura koshtha, Madhyambala and Madhyama satva.

Per abdomen examination-

On palpation, mild tenderness was present in hypogastrium, left and right lumbar regions. Cardiovascular, Respiratory, Central nervous systems were found normal. Patient was well oriented to person, place and time. Gait was antalgic (pain avoiding gait), painful range of movement of legs was presented and mild kyphosis was present. Blood sugar [fasting (90 mg/dl), PP (106 mg/dl)], blood urea (36 mg/dl), serum creatinine (0.8 mg/dl) were in limits. Albumin (traces), pus cells (2-4 HPF), epithelial cells (++) were found. Mild changes of cystitis noted, pre void urine volume 164cc and post void urine voiume 110 cc in USG report.

Treatment protocol-

The patient was admitted in the shalyatantra IPD and treatment was planned considering involved

Dosha and Dushya. Yog basti started to patient for 8 bastidays. Niruha Dashmula kwath was administered for 3 days, anuwasan basti - Tila taila was administered for 5 days. prior to basti for balancing Agni6 (~digestive fire) to counter Ama (~undigested food) presented in the body Hingwaashtak churna one teaspoon first bite of food is given in BD and also given Amapachak vati 250 one tablet in TDS. After that Matra basti (50 ml) with sahacharadi taila was planned for one month through anal route. The retention time of oil was found to be 4-5 hrs during the 1st week, which was gradually increased up to 20 hrs. Patient was advised to avoid Vata dosha vitiating diet like cold water and meals, rotten food, curd, cold drinks etc. and lifestyle like vigorous exercise and exertional work.

Drugs		Dose	Time	Duration	Purpose
A111	1).Hingwas htak churna	2gm(o ne tea spoon)	Twice in a day first bite of food	7 days	For good digestion and Deepan- Pachan
	2).Aampach ak vati	500gm	Thrice a day one tablet after meal	7 days	Deepan- Pachan
	3).Yog Basti A) Anuwasa n basti- Tila taila B) Niruha Basti- Dashmula Kwath	50ml	At mornin g Before breakf ast After breakf ast	Alternate days anuwasan (5) and niruha(3) basti for 8days	Shodhan and and vata alleviatio n
	4).Matra basti- Sahacharadi taila (followed by yog basti)	50ml	After breakf ast	1 month	Vata alleviatio n and neurologi cal disorders.

PLAN OF MATRA BASTI-

Tim e	Dose(m l)	Retentio n time(hrs)	Complicatio ns	Frequenc y of micturitio n in 24hrs
1 st wee	50ml	Around 4-5hrs	No	15-20 times

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k				
2 nd wee k	50ml	Around 10	No	12-14 times
3 rd wee k	50ml	Around 15	No	10-12 times
4 th wee k	50ml	Around 18	No	8-9 times

Outcome-

Frequency of micturition was decreased to 8-9 times from 15-20 times in 24 hrs along with relief in abdominal distension with a feeling of lightness. Improvement was also found in uroflowmetry.

Uroflowmetry-

15 After
15 After
of treatment
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14
9
20
3
2
20

Discussion-

Patient presented with chief complaints of increased frequency of urination and turbid urine for past four months. Her past history mentions low backache, which was associated with lumbar radiculopathy. cystitis pathology was ruled out in ultrasound abdomen. A diagnosis of neurogenic bladder was made in the light of history and investigations. Patient has hysterctomy done before 18 years, which leads to vitiation of Vata dosha. Also patient's age (45 years), is more prone to Vata vikaras. Vata dosha controls the nervous phenomenon of the body. Apana vayu governs the working of kidneys, colon, rectum, hence facilitate the elimination of waste products like stool, urine etc. from body. Vitiated Vata results in Mutra vaha sroto dushti which presents as Atipravritti of Mutra (increased frequency of micturition). For all the urinary problems Basti and Uttara basti is the better treatment. It is stated that in vitiated Vata diseases or Vata dosha dominant diseases Basti is the best treatment. Basti also does disintegration and integration of Purisha (stool), Mutra (urine), Pitta (bile salts) and useful entities in body. Thus, Basti was planned in the current case. The choice of Matra basti was made because of its qualities like; it can be given at any time, can be recommended for daily use in emaciated patients with over exertion, over work, weight lifting, riding, travelling, indulgence in women, in debilitated persons as well as in those afflicted with Vata vikara (diseases of Vata). It is Balya, Brimhana, Vatarogahara, simple to administer and helps in easy evacuation of Mala and Dosha. Sahachara taila was used for Basti as it is indicated in Mutra ghata and said to be as 'Sarvavatavikarajit'. Matra basti was administered for one month because of the convenience of the patient. After completion of treatment patient was advised to take Chandraprabha vati (250 mg) twice a day as Rasayana and Shamana drug for fifteen days to rejuvenate the urinary system and was advised not to take Vataprakopaka diet and not to follow Vataprakopaka lifestyle. Patient was advised to revisit hospital after 15 days for follow up. No further relapsing of symptoms was 🜙 noticed. No complications were noticed or reported with usg post void residue is 20cc, cystitis decrease, no smell in urine.

Conclusion-

Neurogenic bladder is caused by the damage of the nerves governing the functions of urinary bladder. Vitiated Vata dosha (Apana vayu) is the main culprit in this disorder, which results in Mutravaha srotodushti (dysfunctioning of urinary system) and thus Atipravritti (increased frequency of micturition). The adopted therapy i.e.Sahacharadi taila matra basti in the current case provided marked decrease in the frequency of micturition and relief in abdominal distension, which was not controlled by other oral medications like Chandraprabha vati and Gokshuradi guggulu. Basti is stated as best treatment for vitiation of Vata. In this particular case, the

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treatment protocol adopted proved to be beneficial for the patient. No side effects were noticed during the period of treatment. The efficacy may be studied in larger samples to draw efficacy of Ayurveda treatment modalities. Also there is a need to promote role of Ayurvedic Panchakarma therapies in neurogenic bladder and make them more aware of its benefits over contemporary approaches.

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RESEARCH PAPER

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A case series on suicide by hanging: a prospective study conducted in Mumbai region

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Peer review: Double-blinded *Peer review comments:* Three *Editor who approved: Prof. Putul Mahanta* **Background and aims**: The present scenario of globalisation, urbanisation and industrialization is creating lot of stress on individual in particular as well as on the society in common. Person who are not able to sustain these stressful situations are the major victims of suicidal deaths. Materials and *methods*: Present study is carried out at the department of Forensic Medicine and Toxicology and post mortem centre of a tertiary care hospital and a medical college in Mumbai region. Suicidal hanging cases over the last two years were included for this study. The statistical analysis was carried out using the Microsoft Excell and SPSS software 18. Ethical clearance was obtained from the ethics committee of the institute. **Results**: A total 124 cases of hanging were studied in detail. Out of 124 suicide cases 77 were males (62.10%) and 47 were females that is 37.90%. Fifty-seven victims were of age group between 21 to 30 years (45.97%). Privacy for suicide was maintained by selecting lonely place by 97 cases (78.22%). *Conclusion*: The most commonly affected age group was between 21 to 30 years. In the present study male victims (62.10%) outnumbered the female victims. The lower socioeconomic group was more vulnerable (49.5%) for suicide. Most victims were married and committed suicide due to unemployment and money crisis. The commonest cause of suicide in housewives was marital disharmony and dowry related issues.

Keywords: Suicidal hanging; vulnerable age group; socioeconomic status; privacy for suicide; suicide note.

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INTRODUCTION

Suicide is a major public health problem: approximately 0.9% of all deaths are the result of suicide. About 1000 persons are estimated to commit suicide each day worldwide. 1 Suicide may be defined as, "an intentional act causing harm to a person amounting to death and committed by person himself in the absence of contribution from any external agency particularly in the commencement of act.² Recently the term suicide has been replaced by "Intentional Self-Harm"(ISH) in the scientific literature due to derogatory nature of the word "Suicide?"² Hanging is almost always suicidal or accidental, the former being by far the most common.³ Most hangings are self-suspensions, this may be carried out by a wide variety of methods, but a typical method of selfsuspension is to attach a thin rope to a high point such as a ceiling beam or staircase.³ Any substance that is available at the time of the impulse has been used by the suicides as a ligature for hanging.4

MATERIAL AND METHODS

This study is prospective study carried out at post mortem centre attached to Medical College in Mumbai. Only the alleged suicidal cases or suspected suicidal deaths by hanging are included in this study. The natural deaths, accidental deaths, deaths due to multiple injuries are excluded. The study duration is two years i.e., from 1st October 2012 to 30th September 2014.

Collection of data: The primary data in each case is collected from the police inquest along with the statement of relatives taken by investigating officers. Findings of thorough external examination and internal examination of the corpse studied in detail. Post mortem reports were studied in all cases and suicide notes were investigated. Further toxicological analysis and crime scene visit was done wherever feasible.

Data Analysis: Data were imported from Microsoft Excel into SPSS. The later same software was used to generate figures and to calculate descriptive statistics, including: means, ranges, odds ratios, confidence intervals, and p values. Chi Square test was employed to evaluate the statistical significance of differences between the categorical variable.

RESULTS

Total of 3429 cases were referred for medico-legal post mortem examination. Out of these 1669 cases are natural and 1314(38.3%) cases are unnatural. In 1314 unnatural cases 216 are of suicide (16.43%). Out of total 216 cases of suicide 124 cases (57.4%) are of hanging. Every case of hanging is studied in detail and the following observations are made.

Age: The cases are divided in seven age groups as follows, (0-10) years no case found, (11-20) 9 cases(7.25%), (21-30) 57 cases(45.97%), etc. The minimum age observed

among victims is 11 years and maximum age is 85 years (Table 1).

 Table 1 Age group wise distribution

Age group (years)	Frequency	Per cent
11-20	9	7.25
21-30	57	45.97
31-40	30	24.20
41-50	12	09.68
51-60	7	5.65
> 60	9	7.25
Total	124	100

Gender: Out of 124 suicide cases 77 are males (62.10%) and 47 are females (37.90%). Male to female ratio is 1.6:1. Mean age for male and female is 37(36.79) year and 29(29.12) year respectively.

Marital Status: Out of 124 cases 81 cases are married (65.32%) and 36 cases(29.03%) are unmarried etc. (Figure 1).

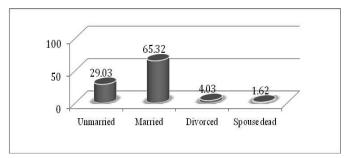


Figure 1 Marital status

Table 2 Mean age

Gender	Marital status	Number	Mean age
Female	Unmarried	13	20 (20.15) years
	Married	32	33 (32.71) years
Male	Unmarried	23	25 (25.43) years
	Married	49	40 (39.79) years

Occupation: Out of 124 22 victims wereLabourers (17.74%), Housewives- 29 cases (23.4%), Students- 2 in

number (1.61%), prisoners- 1 case (0.8%), farmers- 3 cases (2.41%) Those having no job at present are 27 in number (21.78%).

Statistical analysis:

- Null hypothesis: There is no association between the gender and employment in suicide.
- Alternate hypothesis: There is an association between the gender and employment in suicide.

Out of 124 suicidal cases employment was not known in 11 cases so chi square table is prepared for 113 cases and the result is interpreted.

	Total			
		Yes	No	
Gender	Female	7	39	46
	Male	24	43	67
Total		31	82	113

 Table 3 Chi-square test

Chi square (X^2) value of the above table is 5.81. Degrees of freedom (d.f.)

= (Column - 1) (Row - 1) = (2 - 1) (2 - 1) = 1

Chi square (X^2) tabulated value of d.f. = 1

is 3.84 at p < 0.05 i.e. at 95 % level of significance.

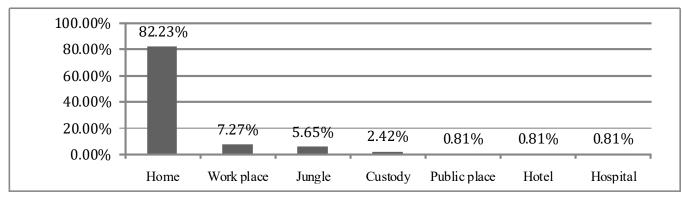
A case series on suicide by hanging; prospective study conducted in Mumbai region

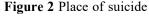
As the calculated chi square (X 2) value is higher than the tabulated (X 2) value, we should reject the null hypothesis and accept the alternate hypothesis.Probability of the difference occurring in gender and employment by chance is less than 5 out of 100 cases, i.e. probability of not getting the difference between gender and employment in nature is 95%. So the gender and employment are associated in suicide.

Socioeconomic status: Depending on Kuppuswamy's socioeconomic scale groups are made, upper class - 9 cases (7.25%), middle-upper class- 3 cases (2.42%), middle-lower class- 50 cases (40.33%), and lower class 62 cases (50.0%). Out of 124 cases 100 cases are Hindu (80.64%), 18 cases are Muslim (14.52%) and 6 cases are Christian (4.84%). Time of suicide preferred by 32 victimsis morning -25.80%, afternoon - 44 cases(35.49%), evening- 16 cases(12.90%), night - 21 cases(16.93%) and late night in 11 cases(8.88%).

Privacy for suicide: Privacy for suicide is maintained by selecting lonely place by 97 cases (78.22%) but not so by 27 cases (21.78%). In 98 cases (79.03%) suicide is committed following sudden provocation and in 25 cases (20.17%) suicidal act is planned and pre decided. In 4 cases (3.23%) there is a definite history of previous attempts of suicide. In four cases (3.23%) multiple methods are used for committing the suicide.

Place of suicide: Place of suicide is own residence in 102 cases (82.23%), Work Place- 9 cases (7.27%), (**Figure 2**).





Behavioural changes: Behavioural changes were noticed by relatives in 107 cases (86.3%), changes like become silent and less talkative, short tempered and violent or rowdy etc. Diagnosed psychiatric illness was found in 8 cases (6.45%). History of acute depression is present in 29 (23.38%) individuals. In 22 cases (17.74%) chronic illness was documented as a reason for suicide. Alcohol addictionpresent in 18 cases (14.52%). Menstrual history was present in 5 cases (10.64%) out of 47 females. **Suicide within seven years after marriage:** This parameter was studied because Section 304B of Indian penal code deals with dowry death:1) Where the death of a woman is caused by any burns or bodily injury or occurs otherwise than under normal circumstances within Seven years of her marriage and it is shown that soon before her death she was subjected to cruelty or harassment by her husband or any relative of her husband for, or in connection with, any demand for dowry, such death shall be called "dowry death", and such husband

or relative shall be deemed to have caused her death.5

In present study out of 47 females, 32 females (68.08%) were married and out of which 15 females (46.87%) were within the seven years of marriage. Out of 15 cases in 3 cases (20.0%) maternal relatives had allegation about death.

Ligature material used: Commonest ligature materials used for hanging are rope in 46 cases (37.1%) followed by dupatta in 41 cases (33.1%)etc.(**Table 4**).

Material	Frequency	Per cent
Rope	46	37.1
Dupatta	41	33.1
Sari (Saree)	15	12.1
Shawl	7	5.6
Bedsheet	5	4.0
Cable wire	2	1.6
Shirt	2	1.6
Lungi	2	1.6
Rubber tube	1	0.8
Jeans belt	1	0.8
Packaging tape	1	0.8
Not known	1	0.8
Total	124	100

Table 4 Ligature material used

Commonest suspension points used is ceiling fan 66 cases (53.2%) followed by ceiling (roof) 35 cases (28.2%), Fixed knot was present in 105 cases (84.7%), running noose in 18 cases(14.5%).

Suicide note: Suicide notes found in 10 cases (8.07%) and not found in 114 cases (91.93%). All suicide notes language was in mother tongue. In one case (10.0%) written on left forearm. Electronic device (laptop) is used in one case (10.0%). In all suicide notes reason for suicide was mentioned.

DISCUSSION

In present study ligature mark is present in all 124 cases (100%). Suicide predominantly noted in males, i.e., 62.1% compared to females, i.e., 37.9% consistent with PN suresh kumar⁶ (51.9%) and correlates with study of Sachil Kumar et al⁷ (56.61%), Bennett and Collins et al.⁸ (79.5%) and Kanchan T et al.⁹ (73.7%). As per Table 1 most vulnerable age group is between 21 to 30 years (45.97%) consistent with Behera A et al¹⁰ and Ambade VN et al.¹¹ In this younger age group suicidal tendency is more frequently observed may be due to frustration and acute depression secondary to exam failure, unsuccessful love affair, marital disharmony and unemployment, etc.

According to **figure 1** suicide incidences are more in married (65.32%) correlated with Behera A et al.¹⁰ (72.32%) and Kadu Sandeep et al.¹³ (74.68%), but Panarat Sritus et al.¹² observed more in unmarried (46.7%). Maximum victims are Hindu (80.64%) consistent with Kadu Sandeep et al.¹³ (87.0%) and Kanchan T et al.⁹ The incidence of suicide is noted more in housewives (23.4%) followed by those have no job (21.78%) consistent with PN Suresh Kumar et al.⁶ may be due to stress and marital disharmony. Maximum (50.0%) cases are from lower socioeconomic class consistent with Kadu Sandeep et al.¹³

As per **figure 2** place of suicide is own residence in 82.23% individuals consistent with Rodge et al.¹⁴ (65%) and Lisa BE Shields et al.¹⁵ (63.9%). Maximum cases occurred in afternoon, (35.49%) but Panarat Sritus et al.¹² and Kadu Sandeep et al.¹³ found in morning (40.30%) and Behera A et al.¹⁰ in night. In afternoon family members are outside from home for job so that female victims get privacy for their suicide act. In present study suicide note is observed in 8.07% cases correlated with Bennett and Collins et al.⁸ (22%) and Panarat Sritus et al.¹² (3.70%). Privacy for suicide is maintained by selecting lonely place by 78.22% victims but not so by 21.78%.

In 3.23% cases definite history of previous attempts of suicide noted consistent with Bagadiya et al.¹⁶ (7%). Documented chronic illness is a reason for suicide in 17.74% cases consistent with Behera A et al.¹⁰ (16.4%) and Kadu Sandeep et al.¹³ (9.49%). Diagnosed psychiatric illness is found in 6.45% cases consistent with Sachil Kumar et al.⁷ (10.9%). In 3.23% cases victims preferred more than one method to commit suicidemay be because of failure of first consistent with Behera A et al.¹⁰ (2.51%). Menstrual history is presentin 10.64% females consistent with Behera A et al.¹⁰ (30%). 46.87% femalescommitted suicide within the seven years of marriage consistent with DS Bhullar et al.¹⁷(44.19%).

According to table 4 rope (37.1%) is the commonly used ligature material by males followed by dupatta (33.1%) by females, consistent with Ambade VN et al.¹⁸ Unusual ligature materials like cable (TV) wire and packaging tape is used by victims who committed suicide at workplace and where these materials are used by them for their work.Most commonly used suspension point used for hanging is ceiling fan in 53.2% casesclosely related with studies of Patel AP¹⁹ and Meera Th et al.²⁰ In present study unusual suspension points like door grill, window grill, railing, ladder and swinging chair hook at roof are used by victims and their body found in partial hanging position. The type of knot is fixed noose in 84.7% cases and running noose in 14.5% cases consistent with Ambade VN et al.¹⁵ Complete hanging seen in 79.83% victims followed by partial hanging (20.17%) consistent with Ambade VN et al.¹⁵ Dried saliva stains are found over the angle of mouth in 28.22% cases and absent in remaining 71.78% cases of suicidal hanging dribbling of saliva/salivary stains not observed, which indicates absence of saliva need not necessarily indicate that the hanging is not ante mortem and not suicidal.

CONCLUSION

Suicide tendency is more in males as compared to females. Younger age group (21 to 30 years) is more vulnerable for suicide. Commonest cause of suicide in housewives is marital disharmony and dowry related issues. Unemployment and money crisis is the commonest cause of suicide. Own residence preferred by maximum (82.23%) victims. Behavioural changes are noticed by relatives in 86.3 percent cases. Preferred language for suicide note is mother tongue of victims. Privacy for suicidal act is maintained by 78.22% victims. Mentally ill persons are highly prone to develop suicidal tendency. In menstrual phase suicidal tendency is more seen in females. Dowry demand is provocative factor for suicidal attempts in newly married females. Dupatta is the most commonly used ligature material for hanging used by females and rope by males. In 72% cases of suicidal hanging dribbling of saliva/salivary stains not observed. More vulnerable victims in suicidal hangings are housewives, labourers, students, farmers.

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Conflict of Interest: None declared.

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Contribution of Authors: BG Chikhalkar and PB Waghmare had examined the cases. PB Waghmare had collected the data. BG Chikhalkar had provided guidance to PB Waghmare and contributed to writing and revising the manuscript. Both authors contributed to the study design and had full approval of the submitted version. Vd. AS Thote did statistical analysis of data.

Ethical clearance: The study work is conducted after the approval of Institute's Ethics Committee for Academic Research Projects, Grant Govt. Medical College Mumbai, India.

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The Management of Psychological Disorders W.S.R to Ayurveda.

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Abstract:

In Todays era of competitive life are under influence of Rajas .Exessive travelling, over consumption of tea or coffee, preoccupied mind have depressing effect on mind leading to Psychological Disorder. Unhappy state of mind impacts our day today activities. Both body and mind are the locations of disorders as well as pleasures. The treatment (Chikitsa) of this Manas (Psychological) disorder is necessary for being healthy. Ayurveda recommends preventive medicine, correct behavior, balanced diet and non suppression of natural urges, Yoga Therapy following daily and seasonal regimens (Dincharya, Ritucharya). In this context detail description of Ayurvedic Management of Manas (Psychological) disorder are described.

KEYWORDS: Mana, Sadvritta, Sattvavajay Chikitsa, Achar Rasayan, Daivyapashraya Chikitsa

Introduction

Ayurveda is traditional science. The purpose of

this science is to preserve the health of the healthy and cure the disease of the unhealthy. ¹ Both body and mind are the locations of disorders as well as pleasures. The balanced use (of the factors mentioned in previous verse) is the cause of pleasures.2 Manas Roga or psychological disorder are associated with emotion, trauma, negative attitude,stress,personal loss,or some drug addiction. Manas Roga are caused due to disturbance in Sattva and when there is predominance of Raja and Tama Manas Doshas.

Their predominance and manifestations leads to disorders like Kama (lust), Krodh (anger), Lobh (greed), Moha (Delusion), Irsha (Jealousy), Mana (Pride), Shoka(Grief), Chinta (depression) , Bhaya (Fear), Mastsarya, Vishad (Sadness), Dainya Unmad (Psychosis), (Affliction), Aptantrak (Histeria), Apsasmar (Epilepsy), Attatvaabhinivesh (obsession), Chittovega (Anxiety), Murccha (Fainting), Anavasthit Chittatva (Unstable Mind), Tandra(Stupor), Nidradhikya(Insomnia), Klama (Neuroasthnia), Gadodvega (Hypochondriasis) Psychological disorder occurs . As Stated in Bhagwatgita whenever and wherever the mind wonders due to its flickering and unsteady natures

we must bring it back under control of self chapter ³ mind can be controlled by constant practice and detachement .⁴

The mind which is happy responsible for Happiness .⁵ Positive health can be achieved by following keys: <u>Brahmacharya</u> (celebacy), <u>Jnana (knowledge), Dana</u> (charity),

Maitri (friendship),

Karunya (compassion), <u>Harsha</u> (happiness), <u>Upeksha</u> (detachment) and <u>Prashama</u> (peace). One who assiduously follows these prescriptions is devoid of all diseases, lives for a hundred years and does not suffer from untimely death. ⁶ If it is proven that mind and intellect are like the soul, these cannot be sole cause of birth. Those who accept the theory of mind and intellect of parents as sole factor of birth.⁷

The who follow people the path of Dharma (eternal duty), they are devoid of fear, attachment, hatred, greed, confusion, vanity and all their mental defects are vanished, they have great knowledge. Their mind and intellect are functioning forever, such ancient and most ancient sages with their divine sight after careful observation has enunciated the theory of rebirth. Everyone should think over this and there should be no doubt. 8one should concentrate mind on the path of eternal duty. Paths give service are to to the preachers/teachers/elders, studies, performing spiritual producing children, acts, marriage,

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maintenance of servants, giving respect to the guests, giving donations, no greed for others money, penance, avoid jealousy, performing acts which do not affect physical, verbally and mind, introspection of body, sensual faculties, mind, intellect and self meditation are included. Similar and acts recommended by virtuous persons which are conducive for doing well in life, and attainment of heaven after death, means of livelihood should be done. By doing such acts one gains fame and attains heaven after death. Thus, the third basic desire is explained. 9

Three types of Vikalpa (Atiyoga, Ayoga and Mithyayoga) and three actions (speech, mind and body) come under category of deeds done of Prajnaparadha (intellectual defects). 10

Aims And Objectives:

- 1) To study Ayurvedic Approach of psychological Disorders.
- 2) To study *Chikitsa* mention in *Ayurvedic Granthas* for psychological disorders.

Materials And Methods:

In Ayurveda, there are various literatures available in Samhita's about a Management of Manas Vikar (psychological disorder)

Ayurveda describes various principles and modalities for maintaining health like *Dinacharya*, *Ritucharya*, *Ratricharya*, *Rasayana therapy*, *Proper Aahara – Vihara*, *Vyayama*, *Sadvritta*, *Achara Rasayana* etc. with the help of implementation of all this modalities Sharira Bala, Manasa Bala and *Vyadhikshamatva* also increases.

Review of Chikitsa:

Definition of *Mana* (Mind): Sometimes one understands a thing and sometimes one does not. This proves the existence of the mind as a separate sense organ. That is why, when there is no contact of the mind with sense organs and their objects, no understanding of things can occur. It is only when the required mental contact is there that one can understand things.11

Types of Diseses (Vyadhi): There are three types ofdiseases – Nija (endogenous), Agantuja (exogenous)and Manasa (psychological). Nijayadhi (endogenousdiseases)arecausedbyvitiationofbody Doshas (Vata,Pitta and Kapha).

Agantuja (exogenousdiseases)arecaused Bhuta (invisibleorganisms),poisonoussubstances,wind,fireandtrauma. Manasa (psychological diseases)are causedby conflict between not getting the desired thingsand getting non desired things. 12

Definition of Chikitsa- Sharira Dosha are pacified by remedial measures of divine and rational qualities while the Manas dosha can be treated with knowledge of self (Jnana), scientific knowledge (Vijnana), restraint/temperance (Dhairya), memory (Smriti) and salvation/concentration (Samadhi). 13

Types of Chikitsa: There are three kinds of treatment modalities-

Daivavyapashraya (divine or spiritual therapy), Yuktivyapashraya (therapy based on reasoning) and Satwavajaya (psychotherapy). Daivavyapashraya includes mantra chanting,

medicine, wearing gems, auspicious offerings, oblations, gifts, offerings to sacred fire, following spiritual rules, atonement, fasting, chanting of auspicious hymns, obeisance to gods, visit to holy places, etc. Yuktivyapashyraya includes proper dietetic regimen, medicine planning. Sattvavajaya is withdrawal of mind from harmful objects.

Mind is the link between Atman (soul), Indriva and Sharira (senses It is responsible and body). for the Pravritti (indulgence) and Nivritti (non indulgence) in health promoting and healthdegrading activities (Shubha or Ashubha Karmas) because thinking is the object of Manas. Samayoga (proper association)of these leads to fruitful results and Atiyoga (excessive correlation), Hinayoga (deficient/no correlation) and Mithyayoga (perverted correlation) leads to dreadful consequences. The Sattvavajaya treatments (restraining senses from harmful objects by controlling mind) form important component for psychiatric and psycho-somatic disorders.14

1) Satvavajaya Chikitsa: Sattvavajaya is withdrawal of mind from harmful objects. ¹⁵Satvavajaya Chikitsa literally means controlling the mind, in such a way that it is not acted upon by various stressors making it prone to Prajnaparadha. Acharya Charaka defines Satvavajaya as withdrawal of mind from unwholesome objects. It includes • *Mano nigraha*: regulating mind/subjugating mind from unwholesome interactions

• *Dhee-dhairyaatmadi Vijnanam*: It is providing a deeper level of understanding which helps ultimately in better control of mind. *Charaka* also explains the utility of replacing negative emotions with that of positive emotions that is beneficial to psyche. Thus Satvavajaya encompasses various aspects that deal with mind – its physiology, morphology, morbidity and also management of Psychological as well as Psychosomatic diseases.¹⁵

- a) Consumption of Sattvik Ahar Since Vedic era, food has been given the prime importance. Three categories of Ahara are described in Bhagvad Gita are Sattvika, Rajasika & Tamasika. Sattvika persons prefers food which increases life span, nourishes Sattva, keeps body healthy, increases happiness and prosperity, which are pleasing and full of nutrients, unctuous in nature, providing stability and conducive for the heart and soul.
- Those persons who take foods which are very pungent, sour, salty, very hot, very sharp in taste, excessively dry, which causes burning sensation, and foods which causes sadness, depression and various diseases are *Rajasika* persons and thus such foods can be categorized as *Rajasika*.
- Food that is not freshly cooked, unhygienic food or food which is devoid of nutrients, foul smelling, stale, mixed with pollutants, dust etc. and left over food comes under the *Tamasika* food and which is appreciated and practiced by *Tamasika* persons.¹⁶

Habit of taking *Ahara* which is *non-Satvika* i.e. *Rajasika or Tamasika* (continuously for a long time) causes some sort of mental disturbances and later on causes serious mental illnesses like *Unmada* and *Apasmara*.

Satvika Ahara not only consists of food with proper nutrition but also it indicates the rules of should food followed. For taking be eg. Visheshayatana $(Charaka),^{17}$ Ashtaaharavidhi Dwadashashan Pravicharana (Susruta)¹⁸. In the treatment aspect also, specific food along with health-conducive routines/regimens plays an

important role along with medicines. Somatic or psychic food plays an important role as a preventive factor, causative factor and as a curative factor. Proper diet helps a healthy person to stay healthy/improve it and prevent illness. *Ayurveda* owns clear and scientific concepts in this regard. The influence of digestive system on the emotional aspects of human beings is another domain of related study in modern research. Gut is considered as the second brain due to the intrinsic neuronal networks. The age old medical system, *Ayurveda* elaborated the same concepts eons before.

Pathya Ahara in Mental Illness: The foods with the qualities like color, smell, taste and touch can be pleasing to the sense organs and conducive to the health if taken in accordance to the rules is the very life of living beings. If proper, it kindles the digestive fire, promotes mental as well as physical strength, complexion, and strength of tissue elements and is pleasing to the senses, otherwise they are harmful. Consumption of Madhura(sweet) food produces Happiness of Mind ,Harsh .after food intake individual should do the things which made him happy like hearing songs do the things which are good in Shabda(to hear),Sparsh(to touch),Rupa(to visualize),Rasa(inTaste),Gandh(in smell).¹⁹

- b) Pathya Viharas in Mental Illness
- Dinacharya : ²⁰ Ayurveda promotes a lifestyle that's in harmony with nature.
- It is advisable to wake up during *Brahma Muhurta* (preferably between 4.00 a.m. to 5.30 a.m.).
- Drinking water early in the morning according to one's capacity cleanses the body by enhancing the elimination of toxic wastes.
- One should attend the nature's calls.
- The soft brushes made out of twigs of *Khadira*, *Karanja*, *and Apamarga* etc. Tongue should be cleaned by a long flexible strip of metal or plant twig. It not only cleanses the tongue but also stimulates appetite and digestion. Mouth should also be cleaned properly.
 - Eyes should be cleaned with fresh water to prevent eye diseases and promote vision. Also wash eyes with *Triphala Phanta* every day for clarity of vision and prevention of eye diseases.
 - Chewing of betel leaves with small pieces of Areca nut (*kramuka*) and fragrant substances like cardamom, cloves, refreshes the mouth and enhance digestion.

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- It is necessary to massage whole body with oil every day. Oil massage ensures softness and unctuousness of skin, free movement of joints and muscles, peripheral circulation and elimination of metabolic wastes.
- Regular exercise is essential for perfect health. It builds up stamina and resistance against disease, clears the channels of body (*Srotas*) and increases the blood circulation. It enhances efficiency of body organs, promotes appetite, digestion and prevents obesity.
- Bathing improves enthusiasm, strength, sexual vigour, appetite, span of life and removes sweat and other impurities from the body. After bath one should wear clean clothes and smear the body with perfume.
- Ritucharya²¹: In Ayurvedic classics, there has been a thorough consideration for seasons, besides the dietetic regimens for days and nights. Whole year is divided into six seasons and detailed regimen for these seasons is prescribed.
- In spring season (Vasant), bitter, hot and astringent diet is advised while salty, sour and sweet food should be avoided. Wheat, barley, honey syrup, fruits like mango, jack fruit-etc. and meat of forest animals are advised.
- In summer season (Grishma) due to hot climate, aggravation of Pitta occurs. Hence Pitta pacifying cold, liquid, sweet and oily diet is advised. Excessive hot, spicy, sour salty diet should be avoided. Intake of rice, milk, ghee, sugar, grapes, coconut water etc is advised.
- In rainy season (Varsha) aggravation of Vata occurs, hence Vata Shamaka sweet, sour and salty food and drinks are preferred. The food should be hot, dry, fatty and easily digestible. Preserved rice, wheat, barley and mutton soups are advised.
- In pre winter and winter season (Shishir & Hemant) Vatadosha aggravates due to cold, dry, chilly atmosphere hence Vataghna, Pittavardhaka diet is recommended. Hot, sweet, sour and salty food, milk, sugarcane, rice, oils and fats are advised
- In autumn season(Sharad) aggravation of Pitta Dosha occurs. Therefore, it is ideal to

take ghee processed with bitter drugs; purgation, bloodletting, coolant, and light diet are advice. Diets dominant in Bitter, sweet, pungent diets are good.

Table 1: Showing Pathya Ahar –Vihar in	Manas
Vikara	

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Al	nar		Vihar					
Sattvik	Rajasika	Tamasik						
• Food	very	Not	Follo					
having	pungent,	freshly	w the					
Ashtaaharavidhi	sour,	cooked,	Ayurvedic					
Visheshayatana	salty,	unhygie	regimen of					
(Charaka),	very hot,	nic food	Dincharya					
• Dwadasha	very	or food						
shan Pravicharana	sharp in	which is						
(Susruta).	taste,	devoid						
• Dwadasha	excessiv	of						
shan Pravicharana	ely dry,	nutrients						
(Susruta).	which	, foul	• Follo					
• Food	causes	smelling	w the					
which is freshly	burning	<u>,</u> stale,	Ayurvedic					
Cooked,Having	sensation	mixed	Regimen Of					
vegetables,Fruits,M	, and	with	Ritucharya					
ilk,	foods	pollutant	-					
• Ghee,	which	s, dust						
tasty which creates	causes	etc. and	• I					
happy mind should	sadness,	left over	o the things					
consume	depressio	food do	which are good					
	n and	not	in Shabda(to					
	various	consume	hear), Sparsh(to					
	disease	6. V	touch), Rupa(to					
	do not		visualize),Rasa					
1	consume		(in Taste),					
49-638X			Gandh(in					
49-00-			smell).					

2) Daivayapashraya Chikitsa: It includes Chanting of Mantras and performances of Homes (Yadnya/Hawan) are integral part of Daivayapashraya Chikitsa It gets revives normal functioning of Sattva and removes obstacles of Rajas.22

3) *Achara Rasayana* : An individual who is truthful, free from anger, abstaining from wine and women, non violent, relaxed, calm, soft spoken, engaged in meditation and cleanliness, perseverance, observing charity, penance, worshiping gods, cow, Brahman's, gurus, preceptors and elders, loving and compassionate, is vigilant and sleeps in balanced way, consumes routinely ghee extracted from milk, considering the measure of place and time with

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propriety, un-conceited, well behaved, simple, with his senses well concentrated to spirituality, keeping company of elders, positivist, self restrained and devoted to holy books should be regarded as using the rasayana for ever. Those, who, endowed with all the auspicious qualities, consumes rasayana, gets all the aforesaid benefits of Rasayana treatment.23

- Sadvritta' -Sadvritta' means good code of conduct. It is indicated in preservation of health and prevention of diseases. It fulfils two objectives – maintenance of positive health and control over sense organs.
- One should worship God, cows, Brahmins, preceptors, elderly persons, highly accomplished persons and teachers
- One should honor fire with oblation, should put on auspicious herbs
- One should bathe twice a day, and one should clean his excretory passages and feet frequently
- Cutting of hair, shaving & nail cutting should be done thrice a fortnight
- One should always wear untorn clothes, should be cheerful, and use flowers and fragrance. The attire should be gentle and style of hair should be as commonly in practice
- One should apply oil to head, ear, nose, and feet daily and should resort to (healthy) smoking
- One should take an initiative during discourses and remain pleasant faced.
- One should save persons in dire situations or distress
- Should offer oblation, perform religious sacrifices, donations, pay respect to road crossings, offer bali (religious offerings or ritualistic sacrifices)
- Should offer hospitality to guests, offer Pindas (rice balls) to forefathers
- One should timely speak useful, measured, sweet & meaningful words
- Should be self controlled & virtuous
- One should be zealous to the cause but not be anxious about the result/outcome
- One should be free from anxiety, fearless, shy (from committing bad deeds), wise,

highly enthusiastic, skillful, fore bearing, religious, with positive attitude

- One should be devoted to the teachers, accomplished persons and to those who are superior in modesty, intellect, learning, clan and age.
- One should walk with an umbrella, stick, turban & foot wear, and look six feet ahead
- One should adopt auspicious conduct, should avoid places with dirty clothes, bones, thorns, impure articles, hairs, chaff, garbage, ash, and skull and one should bathe & sacrifice
- Should discontinue exercise before feeling of fatigue.
- Should behave like brother to all living beings (i.e., should be compassionate), should pacify the angry and the discontent, and console the frightened
- Should help the poor, be truthful & peaceful.
- Should be tolerant of harsh words, and should curb the practice of intolerance
- Should always concentrate on the qualities of peaceful life and should be the remover of the causes of attachment and aversion.²⁴
- **Behavioural code with preceptors**
- One should not speak ill of noble persons and preceptors.
- One should not perform spells, worship of sacred trees and superiors, and studies while remaining impure.²⁵
- Codes for maintaining good psyche in society
 - One should always control the senses (mind& 5 sense organs) and should suppress the urges like Lobha, Irshya, Dwesh, Matsarya, Raga etc.²⁶
- One should not be impatient, or overexcited/ over exhilarated.
- One should not be the person who does not support his attendants, confide in his kins, be happy alone and has unpleasant conduct, behaviour and attendance.
- One should not rely on everybody nor suspect all and should not be critical (too meticulous) at all times.²⁷
- Code of conduct at work-place
- One should not be submissive to his senses nor should let his fickle mind move around.

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- One should not overburden his/her intellect or senses.
- One should not do things in a fit of anger or rejoicing.
- One should not be under continuous grief.
- One should not be conceited over achievements or desperate in loss.
- One should always remember his own constitution of mind (nature).
- One should have faith in the correlation of the cause and effect that is good and bad deeds and their corresponding results and should always act on it.
- One should not be despondent and assume that now nothing can be done.
- One should not lose spirit (give up courage) nor should remember his insults.²⁸

Codes of conduct for blissful well-being

One who is desirous of well-being should not offer oblation to the fire with cow ghee, whole grains, Tila (Sesame indicum rice Linn.), Kusha grass (Desmostachya bipinnata Staff.) and mustard seeds while in impure condition. One should touch water, reciting mantra-Agnirme Na Apagachhet Sharirad, Vayurme pranan Aadadahatu, Vishnurme Balam Aadadhatu, Indro Me Viryam Shiva Mam Pravishantva Apa Apohishthetyapah Sprushet. After touching the lips and feet, one should daub water on all the orifices of the head (two nasal, one buccal, two auditory, and two ocular orifices), the seats of his soul (mentally), heart and head.29

- Persons those who have not been able to free themselves from Rajas and Tamas (psychological Dosha
 - s), for them advice given by the learned sages in religious literatures is that they cannot attain salvation.30

Aushdhi Chikitsa

- Dravyas those increases the Medha is known as 'Medhya'. Although this function is related with Mana, and due to Nadisansthan is the Visistha Adisthana of presence of Mana; this Medhya Karma is related with Nadisansthan. Nadisansthan are connected with Brain that's why the Medhya Dravya also known as brain tonic.
- The Medhya Karma is considered as Prabhava Jayna because some Medhya Dravya are Shita

Virya, Madhura Rasa and Madhur Vipaka e.g. Yastimadhu; and some are Ttikta rasa and Ushna virya e.g. Guduchi.

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These Medhya Dravya have more Medhya Karma present rather than a Samanya Dravya, Medhya Karma Prabhava so is Janya...Consumption of Mandukaparni juice, the powder of Yashtimadhu with milk, the juice of Guduchi along with its roots and flowers and the paste of Shankhapushpi these Rasayana drugs are life promoting, alleviating, promoters disease of strength, Agni, complexion, voice and are intellect promoting. Of them Shankhapushpi is specifically intellect promoting.32 Medhya Ramayana.

These four Rasayana enhance intelligence. Yashtimadhu is Shita, pacifies Vata-Pitta and maintains normal Kapha. It controls Rajoguna and increases Sattva, resulting in boosting intelligence. Yashtimadhu also nourishes Dhatus and ultimately increases Shukra and Oja.

As explained by commentator Chakrapani, effects on Indriya, Mana and Buddhi are mediated through Oja. Mandukaparni is Sheeta and it specially pacifies Pitta. It also controls Rajoguna and increases Sattva. Shankhapushpi is slightly Ushna, specially pacifies Vata.

Shankhapushpi also controls Rajoguna and increases Sattva. Shankhapushpi nourishes Majja. Whereas Guduchi is also slightly Ushna, pacifies all three Doshas, controls Tama and increases Sattva. Keeping in mind such peculiarities, specific Rasayana is chosen for a specific person. Many researchers have been conducted on these Medhya Rasayana.³³

- **Dharaneeya Vega:** An intelligent person should control greed, grief, fear, anger, egoism, shamelessness (impudence), jealousy, excessive affliction (in anything), and desire to acquire someone else's wealth. 34
 - Mano Vikara (Psychological disorders) Jealousy, grief, fear, anger, egoism and hatred, etc. and all other mentioned mental disorders result from defects in one's intellect35, 36
 - Excessive indulgence in Dharaneeya Vega is the result of improper Atma-Indriya-Artha Samyoga and further impairs the synchrony of Manogunas. Thus, one can understand

that Manasika Vega is a result of vitiated Rajas and Tamas that cloud the mental faculties and cause it to form unwholesome association with objects due to impairment of the intellect and the other regulating factors.

4) Practicing Yogic lifestyle –

The literal meaning of *Yoga* is 'to join', that is joining of Mind and Body. *Yoga* advocates that every life form is interconnected and united13 the eight limbed path of *Yoga* includes: *Yama* (moral codes), *Niyama* (self-discipline), *Asana* (postures), *Pranyama* (breath practices promoting life force), *pratyahara* (sensory transcendence), *Dharana* (concentration), *Dhyana* (meditation) and *Samadhi* (state of bliss).

Happiness and miseries are felt due to the contact of the soul with the sense organs, mind and the objects of senses. Both these types of sensations disappear when the mind is concentrated and contained in the soul and the super natural powers in the mind and body are attained. This state is known as Yoga according to sages well versed in this science.

The application of Yoga as a therapeutic intervention began early in the twentieth century, taking advantage of the various psychophysiological benefits of the component practices. The physical exercises (Asanas) may increase patient's physical flexibility, coordination, and strength, while the breathing practices and meditation may calm and focus the mind to develop greater awareness and diminish anxiety, and thus results in higher quality of life. Other beneficial effects include a reduction of distress, blood pressure, and improvements in resilience, mood, and metabolic regulation. It has been found in many researches that yoga have positive effects on mild depression and sleep problems, and it improves the psychiatric disorders symptoms of like schizophrenia and ADHD among patients using medication. Some studies even suggested that yoga might affect the body in ways similar to antidepressants and psychotherapy. For instance, yoga may influence brain chemicals known as neurotransmitters (boosting levels of feel-good agents like serotonin), lower inflammation, reduce oxidative stress and produce a healthier balance of

lipids and growth factors — just as other forms of exercise do. 37

(1) Entering others body, (2) thought reading (3) doing things at will, (4) Super natural vision (5) super natural audition (6) miraculous memory (7) uncommon brilliance and (8) invisibility when so desired – these are the eight supernatural powers attained by those who practice Yoga.

All this is achieved through the purity of the mind. (Free from Rajas and Tamas) ³⁸

In order to transcend this dichotomy, Patanjali described the following eight limbs of Ashtanga Yoga.

The first two aspects are *Yama* and *Niyama* to create social and personal discipline in the society. The next two, Asana and Pranayama are to achieve physical and mental strength and stability.

- Pratyahara, Dharana, Dhyana and Samadhi are to achieve Moksha by detachment, focus, meditation and bliss. Each one of us has unique qualities and has different levels of existing skills provided by each of the limbs of Yoga. Therefore, some individuals may require a teacher or Guru to give guidance in the early stages.
- > Yama (social restraints for relating to society) These are:

1. Ahimsa: We should not cause pain to others by thoughts, words and actions. Show kindness and thoughtfulness to others.

- 2. Satya: Truthfulness and honesty.
- 3. Asteva or non-stealing: Tangible and intangible.
- 4. Bramhacharya: Control over senses, appropriate sexual behavior.
- 5. Aparigraha or non hoarding: Taking from nature what is needed.
- ➢ Niyama: (Personal restraints or conduct)
 - 1. Shaucha: Physical and mental cleanliness or purity.
 - 2. Santosha: Contentment
 - 3. Tapas: Self discipline.
 - 4. Swadhyaya: Self study
 - 5. Ishwara Pranidhana: Acceptance. Do karma and leave results to higher powers.
- Asanas: Means steady and comfortable posture. Improves health, strength, balance and flexibility. On a deeper level it is a tool

to calm the mind and move into the inner essence of being.

- Pranayama: Directing the life force produces heat (Tapa) and cleans the channels, strengthens the respiratory system, calms the mind to be able to concentrate and meditate.
- Pratyahara: This is a stage when withdrawal of senses occurs due to break in the link between senses and the mind. It facilitates the next three limbs of Yoga.
- Dharana: This is a stage of deep concentration of mind on one particular object, sound or thought and there is cultivation of inner awareness.
- Dhyana or meditation: This is the seventh step of Yoga and during this stage there is deep awareness but no focus. There may be very few thoughts or no thoughts.
- Samadhi: This is a stage of bliss where the subject and object merge as one. Person feels connected to all living beings and is at peace. Illusionary separation of "I" and "mine" is lost as mind does not distinguish between self and non-self.

All these have positive benefits to improve body-mind strength and harmony.³⁹

5) Exercise and the brain: Exercise help memory and thinking through both direct and indirect means. The benefits of exercise come directly from its ability to reduce insulin resistance, reduce inflammation, and stimulate the release of growth factors—chemicals in the brain that affect the health of brain cells, the growth of new blood vessels in the brain, and even the abundance and survival of new brain cells.

Indirectly, exercise improves mood and sleep, and reduces stress and anxiety. Problems in these areas frequently cause or contribute to cognitive impairment. Many studies have suggested that the parts of the brain that control thinking and memory (the prefrontal cortex and medial temporal cortex) have greater volume in people who exercise versus people who don't Exercise affects the brain on multiple fronts.

It increases heart rate, which pumps more oxygen to the brain. It also aids the bodily release of a plethora of hormones, all of which participate in aiding and providing a nourishing environment for the growth of brain cells.Exercise stimulates the brain plasticity by stimulating growth of new connections between cells in a wide array of important cortical areas of the brain.From a behavioral perspective, the same antidepressant-like effects associated with "runner's high" found in humans is associated with a drop in stress hormones .⁴⁰

Discussion:

Famous Saint Samarth Ramdas Swami said in his Granth Manache Shlok our evil desires are of no use, sinful thoughts should not come to our mind. we should always have ethics ,we should always know real truth in our mind .41If our mind get corrupted then we lose our reputation amidest people,so let say no to anger which makes us feel sorry ,let us not corrupt our mid with all sorts of desires ,let us not praise ourselves due to jealousy for others.⁴²

Let us have great patience ,let us bear the evil words spoken to us,let us always understand others.We should not bleed our mind with sorrow ,we should not been grossed with sadness &worries.so that we maintain our mental hygine.⁴³

A wise person even if suffering from psychological disease should consider carefully what is beneficial and what is harmful for health. One should discard the harmful or unwholesome regimens and do the beneficial work regarding the Dharma (virtue), Artha (wealth) and Kama (desire).

In this world happiness or sorrow cannot occur without these three. That is why one should try to indulge in doing beneficial work and discard the harmful one. One should serve the intellect. Also, try to acquire knowledge about Atman (self), Desha (place), and Kala (time), Bala (strength), Shakti (potential/capacity).

Thus, it is said that the treatment of psychological diseases is- to follow the conduct related to Dharma (virtue), Artha (wealth) and Kama (desire). To do service of persons who are having knowledge of psychological diseases and follow their instructions, to obtain the knowledge about self etc. 46

Conclusion:

The former ones (Sharira Dosha) are pacified by remedial measures of divine and rational

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qualities while the latter ones (Manas Dosha) can be treated with knowledge of self (Jnana), scientific knowledge (Vijnana), restraint/temperance (Dhairya), memory (Smriti) and salvation/concentration (Samadhi).⁴⁷

Avoidance of improper activities of body , mind and speech by willful transgression of rules,control over senses remembering the previous experiences ,knowledge pertaining to place, time and constitution ,adherence to rules of good conduct as prescribed in Atharvaveda, propitiating unfavourable Grahas ,Adopting ways to keep away from demons etc is treatement for Agantuja Vikara .⁴⁸

As said by Charakacharya Worry / grief (Shoka) leads to emaciating/ wasting (Shoshnanam), Grief (Vishad) leads to aggrevation of diseses (Rogvardhananam, Unhappiness Disgust (Daurmanasya) loss virility leads to of (Avrushyananam) Harsha gives delight (Prinananam).⁴⁹ One should be relive all the worries and one should behave according to Sadvritta leads to Joyfull life and may achieve Dharma, Artha, Kama, Moksha and Health.

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PUBIC SYMPHYSIS DIASTASIS DURING NORMAL VAGINAL DELIVERY – A CASE STUDY

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ABSTRACT

Pubic Symphysis Diastasis is defined as separation of the joint, without fracture. Pubic Symphysis Diastasis following childbirth via vaginal delivery is a rare but debilitating condition. It is a condition that allows excess lateral or anterior movement about the Symphysis pubis and can result in Symphysis pubis dysfunction. It is usually noticed after delivery and has been associated with forceps delivery, rapid second stage of labour or severe abduction of the thighs during delivery. Unbearable pain on moving from side-to-side and on performing any weight-bearing activity such as walking or climbing stairs precludes ambulation in the immediate postpartum period. Radiography, ultrasound and magnetic resonance imaging are the diagnostic modalities that aid confirmation of diagnosis. There is no overwhelming evidence in the medical literature to support any particular treatment. Most of the cases can be treated Conservatively. However, external and internal surgical stabilization may occasionally be required. A Case is reported here of severe separation of the Symphysis pubis during delivery, including several Previously unreported complications. A review of the literature follows, highlighting the variety in Presentation, treatment, and prognosis.

KEYWORDS: Pubic Symphysis Diastasis, Spontaneous vaginal delivery, Conservative management, Bed rest, Pelvic binder.

INTRODUCTION

The Pubic Symphysis is a non-synovial joint that connects the right and left superior pubic rami. Due to hormone related changes and physiological alterations observed during pregnancy, the gap can increase by 2-3mm and remain after delivery, such a separation is called as "Physiological Pelvic Symphysis Diastasis". Infrequently vaginal delivery might lead to joint widening of more than 10mm which is diagnostic and defined as "Pathology Pubic Symphysis Diastasis ".^[1] The abnormally widened gap can cause significant pain followed by the inflammation and swelling. A Physiological widening of the Symphysis joint is based on normal endocrine changes during pregnancy; therefore, it does not depend on the mode of delivery and the Pathological Diastasis is considered complication of the vaginal delivery method of childbirth and can be prevented by Cesarean delivery.^[2] This is a rare pathology found in postpartum women with an estimated prevalence ranging from 1 in 300 to 1 in 30,000 Pregnancies.^[3]

Diastasis can also occurs as a result of Precipitate labour and instrumental delivery.^{[4][5]} These changes are reversible after complication free birth but sometimes may result in considerable & prolonged morbidity.

Possible predisposing factors involve the no. of pregnancies, fetal macrosomia, narrow pelvic outlet or cephalo-pelvic disproportion, rapid & dense contractions, during labour, epidural route of anaesthesia, Previous trauma in the pelvic region, osteomalacia, chondromalacia & infections.^[6]

A rapid delivery is thought to play a role in rupture of the pubic ligaments, But intervention with the vacuum extraction or Forceps delivery has not had an important role in the series reported. Clinically, separation of the symphysis pubis is Heralded by pain in the region of the symphysis, With point tenderness in the region of the symphysis pubis and pain in, that area on compression of the pelvis. Pain usually occurs with walking, And an unstable or waddling gait is noted. With Wider separations, back pain in the sacroiliac Joints becomes more prevalent because of the Hinge-type movement when the pelvis widens.

Treatment modalities range from Conservative management including analgesics, pelvic binders, transcutaneous nerve stimulation and chiropractic management to orthopaedic intervention such as external fixationor open reduction and internal fixation.

MATERIALS AND METHODOLOGY

Study type

A single case study of Pubic Symphysis Diastasis.

Study Design

A single case study of patient was taken from IPD of our Ayurved Rugnalaya. Informed & written consent was taken.

CASE REPORT

A 24 years old patient G_3P_1 had a Prolonged second stage of labour with spontaneous vaginal delivery of a 3.3kg healthy female child. Immediate after labour, the patient noted severe suprapubic pain and was unable to move due to the severity of pain. Attempts by physical therapists to mobilize the patient had failed due to significant pain & discomfort. Results of a neurological examination of her legs were normal. Then patient was evaluated by an orthopaedic surgeon.

On Physical examination, there was no obvious instability with compression of both iliac wings. There was reproducible pain over the midline & in the infra umbilical region and tenderness over the pubic symphysis, with a small palpable defect.

Radiography of the pelvis were ordered to further assess the symphysis pubis & sacroiliac joints. Initial images of the pelvic were obtained on postpartum day 5 and demonstrated abnormal widening of the symphysis pubis to a maximal transverse measurement of 4cm. There was no definite sacroiliac joint widening. Radiological imaging findings and the stability of the posterior ring, so, Conservative management was recommended and patient was placed in a pelvic binder. Also recommended to take bed rest and supportive treatment was continued for 3 months.

Supportive treatment

1) Mahayograj Guggul 250mg 2BD warm water for 15days.

- 2) Asthiposhak Vati 250mg 2BD
- 3) Shatawari Kalpa 1tsf —1tsf with milk
- 4) shunthi siddha erand tail 5ml at night with luke

Also, sequential images at follow up were obtained. The patient improved clinically and Radiographically. On follow up visits, she reported progressive improvement of symptoms.

DISCUSSIONS

Anteriorly, the pelvic bone are jointed together by symphysis pubis. The structure consists of fibrocartilage and superior & inferior pubic ligaments. In pubic symphysis Diastasis, the separation of the right and left pubic rami. The abnormally widened gap can cause significant pain followed by inflammation and swelling. Diagnosis may be made based on multiple imaging studies.

In the medical literature, there are no definite guidelines to support any particular treatment. Most of the cases respond to Conservative therapy in the form of bed rest, Analgesics and pelvic binders. Conservative therapy usually results in a complete recovery in acceptable time span. Physiotherapy in the form of muscle strengthening exercise also has a role.

CONCLUSION

Separation of the pubic symphysis during pregnancy and delivery is normal. However, large separation is a potential complication requiring treatment and follow up. Treatment should generally be Conservative and symptomatic.

Conservative management including rest, analgesics and a pelvic binder is a reasonable method of management. Under the guidance of expert obstetric, physiotherapist, this clinical entity shows significant improvement in pain, functional status and overall physical health.

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EFFECT OF TRIGUNA ON HUMAN BEHAVIOUR

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ABSTRACT

Man is a social animal. His behavior depends on his personality. There are so many factors which are responsible for development of personality of an individual such as method of upbringing, school life, friends, family profession, job satisfaction, financial status, marital life, etc. Ayurveda theory of mental constitution helps here which is based on ratio of Triguna namely Satva, Rajasa, Tamasa. The term Guna refers to the tendency which human mind functions. Guna is Sahaja Prakruti which stays inside a person.^[1] The Prakruti is composed of three Guna Satva, Rajasa, Tamasa. On an individual level they are corresponds to various psycho-physiological state & personality types. Satva response to clarify of thoughts & purity of mind Rajasa denotes

passionate, excitable, aggressive states of mind & Tamasa denotes Indifference, confusion & depression In Shrimada Bhagavada Gita there is description about triguna and its swabhava, lakshana, karya, phala and parinama.^[2]

KEYWORDS: Satva, Rajasa, Tamasa.

INTRODUCTION

Triguna are present in all human beings, none is free from the operation of any one of the three qualities. There are not constant, sometimes Satva predominates and at other time Rajasa and Tamasa predominates. One who know that the Satva is Shreshtha and one cannot get rid of Rajasa and Tamasa, should do Sadhana in enlightening the Satva. These three Guna is different properties influence the mental and intellectual caliber of every individual. Guna

indicates the attribute with which human mind functions. Dominance of Guna determines the Individuals personality.

In Shrimada Bhagavat Gita, Lord Krishna has explained the concept of Triguna, characters of each Guna, the relationship between food & habits in Triguna & methods of controlling the mana. Apart from Bhagavat Gita the other Acharyas also mentioned about Triguna. In Sushruta Samhita personality of a man is explained based on Triguna, Satvika, Rajasika, Tamasika Purusha lakshana.^[3]

Acharya Charaka mentioned mental faculty of three types; Satvika, Rajasika & Tamasika. The Satvika is one which free from defects as it is enclosed with auspiciousness. The Rajasa is defective because it promotes wrathful disposition. The Tamasa is the one which is similarly defective because it suffers from ignorance.^[4]

In Ashtanga Hrudaya the characteristics of Triguna are mentioned as Satvika person having Guna like cleanliness, have faith in God, righteous, honest & intellect. Rajasika persons are talkative, having anger, jealousy & are proud. Tamasika persons are coward, illiterate, sleepy, lazy & non-enthusiastic. According to Sankhya philosophy, Satva guna is the indicator of purity, creativity & bliss. Rajasa is distinguished by movement, dynamism & reactivity. Tamasa is characterized by ignorance, delusion & power of resistance.^[6]

Aim: To study the concept of Triguna critically.

Objectives: To study the effect of Triguna on human behavior.

METHODOLOGY

1. Shrimada Bhagavata Geeta – 14th Chapter⁸

The highest of three qualities is Satva. It is pure. It brings about happiness, wisdom & illumination. The second quality is of Rajasa gives rise to passion manifested by intense, attachment & greed. It causes sorrow & suffering. The third, Tamasa is the worst of all. It arises due to ignorance & results in darkness, lethargy & delusion.

One should control Rajasa by holding it in check, divert its power towards good kind of activities. Satva should be carefully cultivated, developed & conserved in order to enable us to attain immortality. Lord Krishna in Bhagvata Geeta says that, one who rises beyond all the Triguna through spiritual practices become free from birth, death, old age, sorrow & enjoys immortality. Triguna; Satva, Rajasa, Tamasa are born of prakruti which binds immortal soul

to body in its embodied state. Satva which from its stainlessness is luminous & healthy, binds by attachment to knowledge & to happiness. Rajasa to be of nature of passion, the sources of thirst (for sexual enjoyement) & attachment. It binds fast & embodied one by attachment to action. Tamasa is born of ignorance, deluding all embodied beings, it binds fast, is full of thoughtlessness, sleep & ignorance.

Satva attaches to mood of joy, while Rajasa to action. Tamasa to ignorance & heedlessness. When Satva is dominant, then all the senses, knowledge, happiness & similar characteristics manifest. Greed, extroversion, ceaseless, planning & execution of work, restlessness, desire for enjoyment, theses arises when Rajasa is predominant. When Tamasa dominates there is lack of intelligence, lack of effort, negligence & delusion.^[8]

2. Shrimada Bhgavada Geeta 17th Chapter -

These endowed with Satva, worship devotes those with Rajasa worship Rakshas & Rakshasas. Those with Tamasa worship the spirits of dead ancestors & elementals. Ahara is of three kinds, the person who are Satvika by nature, like food that promotes longevity, vitality, energy, health, happiness, cheerfulness & that are juicy, soft, nourishing & agreeable. Person who is Rajasika by nature like food that are katu, Amla, lavana excessively ushna, teekshna, ruksha, vidhahi & thirst producing, as also which brings on uneasiness, depression & diseases. Persons who are Tamasika by nature like food that is state, fastless, putrid, decayed unclean & constitutes the leavings of others (leftovers).

The Dana given to others with the absolute sense of duty, without expectation of any kind of return, given at the proper time & place to a fit recipient is said to be of the nature of Satva. The Dana Which is given in consideration of some gift in return or with some fruit to be reaped in future or in a grudging mood, that is the nature of Rajasa. The Dana is made at an improper time & place to an unworthy recipient, who is with lack of courtesy & in a disregarded manner that is nature of Tamasa.^[9]

3. Sushruta Samhita

Characteristic features of Satva guna are kind, merciful, samvibhaga ruchita, patient, truthful, follow righteous way, belief in God. Dnyan, buddhi, intelligent, smruti, courageous, who do their work without any expectation.

Rajasa guna predominant persons are always in grief, wondering, unhappy, ahankaara, felling lies, Akarunya, deceiving, respectful, joyous, kama & krodha.

Tamasa guna predominant persons are in sadness, lack of belief in existence of God, doing unrighteousness things, Buddhirnirodha, Agyani, foolish, does not like to work & nidralu.^[3]

4. Charaka Samhita

Acharya Charaka mentioned mental faculty is of three types, Satvika, Rajasika & Tamasika. Satvika is one which is free from defects as if is endowed with auspiciousness.

Rajasika is defective because it promotes wrathful disposition. Tamasika is the one which is similarly & defective because it suffers from ignorance.^[4]

The human behavior comes under Satvika faculty (Shuddha Satva) as follows^{4-a};

- 1) Maintain cleanness & purity.
- 2) Always talks truth.
- 3) Control their sense organs.
- 4) Do equal distribution of things with their colleague.
- 5) Free from Shadripu.
- 6) Do study.
- 7) Maintain celibacy (non-indulgence in sexual activity).
- 8) Give respect to guest.

The human behavior comes under Rajasa faculty as follows;

- 1) Bravery, leadership, envy, cruelty.
- 2) Intolerance, constant anger, violence at weak points.
- 3) Restoring to abnormal diet & regimens.
- 4) Sharp reaction.
- 5) Actions without discrimination.
- 6) Attachment with passion.

The human behavior comes under Tamasa faculty as follows;

- 1) Lack of intelligence.
- 2) Hateful conduct & food habit.

- 3) Gridiness for food.
- 4) Unsteadiness

5) Excessive sexual indulgence & sleep^{4-a}.

The person having Satva as essence are endowed with memory, devotion, are grateful, learned, pure, courageous, skillful, resolute, fighting in battles with process, free from anxiety, having well directed & serious intellect and activities & engaged in virtual acts.

The person with Satva Sarata (Superior psyche) possessing short body are seen unmoved even is severe afflictions – innate or exogenous due to predominance of Satva quality. Those having medium psyche sustain themselves at the instance of others or entirely by others. But those possessing inferior psyche can sustain neither by themselves nor by others. Although having big stature, they are unable to even mild pain, they are associated with fear, grief, greed, confusion, and conceit & even during fierce, frightening, disliked, disgusting, & ugly narratives or on the look of the animal or human flesh or blood get afflicted with anxiety, abnormal complexion, fainting, insanity, giddiness or falling on the ground or even succumb to death^{4-b}.

5. Ashtanga Hrudaya

Satvika persons having guna like cleanliness, have faith in God, righteous, honest & intellect. Rajasika persons are talkative, having anger, jealousy & proud. Tamasika is the one which is similarly defective because it suffers from ignorance.^[5]

The person with predominance of Satva guna experiences happiness & misery without agitation & humanity respectively. Whereas persons of Rajasa & Tamasa do not so.^[5]

6. Triguna in Sankhya Karika

Satva guna is the indicator of purity, creativity & bliss. It can be compared with flame & is represented by white colour, Rajasa by nature is ; stimulant, hyperactive & tickle, therefore said to be the indicator of stimulation, impatience & pain. It can be compared with wick & is represented by red color. Tamasa is heavy & work as covering for the consciousness. It is indicated by ignorance, darkness & nobility. It can be compared with oil of a lamp & is represented by blue color.^[6]

7. Shrimada Bhagavata Purana

The signs of Satva are control of the mind & senses, forbearance, discrimination, austerity, truthfulness, comparison, memory, contentment, self sacrifice, lack of desire, faith, revulsion from evil, charity, absorption in the self. Signs of Rajasa are desire, activity, pride, greed, self

boasting, longing for one's selfish ends, sense of difference between man and things, sensuality, enthusiasm arising from excitement, craving for name and frame, indulgence in ridicule of others, demonstrativeness, aggressiveness.

Characteristics of Tamasa are anger, greed, untrustworthy, cruelty, beggarliness, hypocrisy, inactivity, quarrel someness, depression, delusion, despondency, wrefobedness, lassitude, expectations, fear, lack of initiative, & vigour in work. When Satva is illuminating, brilliant, pure & peaceful, dominates over the other two gunas then person will be happy and established is mortality & knowledge. When Rajasa characterized by attachment, sense of difference, & consciousness of one's power, dominates over Satva & Tamasa the man becomes subject to suffering, sorrow, following as he does the path of desire-prompted action seeking wealth & fame.

When Tamasa dominates other Rajasa & Satva, then man becomes subject to pessimism, delusion, cruelty & indulgence is vain expectations, when consciousness clears up, senses are not distracted, physical self confidence & detached mind is there, the Satva guna dominates. When intelligence is disturbed by actively, one fails to disengage from senses & mind is unsteady, it shows that Rajasa has become dominant. When mind is unstable to sustain consciousness, dissolves into sleep, dominance of inertia & pessimism, then Tamasa guna is dominant. When a person does any work in the feeling of dedication to God without desiring the fruits, then he will become Satvika. When a person expects benefit from the work then he will become Rajasika. If he is self praising himself & egoistic towards the work & performed with violence & pressure, then he will become Tamasika.

A worker free from attachment is of Satvika, binded by personal desire is of Rajasika having lose one's memory & doesn't think about pros & cans before doing any work is of Tamasika. Satva is the one who believes in spiritual Matters, Rajasika Rajasa is one who believes in outcome of trait from work. Tamasa is one who believes in Adharma.

Those who control over sense organs are called Satvika. Those who uses sense organs for enjoyment are Rajasika.^[7]

DISCUSSION

A person having Satva guna abstain from disease caused due to Pardnyaparada & Asatmendriyartha Sanyoga. Acharya Sushruta not separately mentioned the types of guna &

Satva pariksha, he explained according to the pradhan guna of manasa. In Bhgavata Geeta there is explaination about qualities.

In Shrimada Bhagavata Purana the characteristics are mentioned about Satva, Rajasa & Tamasa which are; The signs of Satva are control of the mind & senses, forbearance, discrimination, austerity, truthfulness, comparison, memory, contentment, self sacrifice, lack of desire, faith, revulsion from evil, charity, absorption in the self. Signs of Rajasa are desire, activity, pride, greed, self boasting, longing for one's selfish ends, sense of difference between man and things, sensuality, enthusiasm arising from excitement, craving for name and frame, indulgence in ridicule of others, demonstrativeness, aggressiveness.

Characteristics of Tamasa are anger, greed, untrustworthy, cruelty, beggarliness, hypocrisy, inactivity, quarrel someness, depression, delusion, despondency, wrefobedness, lassitude, expectations, fear, lack of initiative, & vigour in workities of Satva, Rajasa and Tamasa guna. Satva guna of the person at the time of vedhan, chedhya bhedya vidhi shastra karma does not cause dukha. Satva is the capacity of mind which does not cause the frustration at the times of sorrow, joy etc. satva gunayukta purusha from his atmabala he overcomes from the pain caused by sharirika & manasika vyadhi. Raja guna ptadhana purusha with the help of others he can bear & overcomes from his problems but Tama guna pradhana purusha does not bear & overcomes from such problems.^[10]

Manasika prakruti can be identified on how a person behaves or reacts to a given situation considering the place & time, Acharya Sushruta describes the same in the aspect of guna where each guna is explained with each of the exclusive character of the person & each of the character defines how the person will react to a situation.

CONCLUSION

Bhagavata Gita, Bhagavata Purana, Sankhya Karika & Ayurvedic literature gives detailed information about Triguna, their function, characteristics & their role in maintenance of health of an individual. Triguna plays major role in treatment to know about mentally of each person & their mindset towards every situation. This article provides all that information compiled at one place. Every human being behaves according to their Satva, Raja & Tama guna.

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Open Access Full Text Article

Original Article

Title of Article: Effect of *Patoli Taila* in Management of *Parikartika* (Fissure-in-ano) in Comparison with *Jatyadi Taila*: Randomized Clinical Trial

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ABSTRACT

Presently, the majority of the population is getting impacted by lifestyle disorders stemming from constipation. In Ayurveda, several ano-rectal diseases have been considerably described by Acharya Sushruta. Anorectal diseases are Gudagat vyadhi. Parikartika is one of these diseases. It is a dreadful condition involving the anal region. It is rightfully called Parikartika because it causes Parikartanvat vedana: cutting and burning sensation at the anal region. Parikartika is vataja in nature even though its pittaja and kaphaja types and Lakshanas are described by Acharya Kashyapa. Its root cause is habitual constipation resulting in hard stools. Patola belongs to Patoladi gana mentioned in Sushrut samhita. Patola has vedanasthapana and vranashodhana property. In this comparative study evaluation of the effect of Patoli Taila in experimental group and Jatyadi Taila in the control group in the case of Parikartika on two different groups of 50 patients, each within the age group of 20-60 years is done. The cases were followed up weekly and results were assessed for statistical analysis of improved findings. The result shows a better outcome of Patoli Taila over Jatyadi Taila. Keywords: Parikartika, Taila, Patola, Fissure-in-ano.

INTRODUCTION

Fissure in ano has a prevalence rate of 8.42% in the total ano-rectal diseases. Its incidence is very common in constipated people. 90% of the anal fissures develop at the posterior region of the anal canal, however, 10% develop at the anterior region^[1]. *Parikartika* has been mentioned by *Acharya Shushruta, Acharya Charka, and Acharya Kashyapa* as a complication of *Basti, Virechana,* and *Garbhini avastha* respectively.^{[2][3]} It can be correlated with Fissure-in-ano described in modern medical science which is an anorectal disease and is a severely painful condition. Fissure-in-ano is the condition in which an ulcer is formed in the longitudinal axis of the lower anal canal. An ulcer can be compared with *vran* in Ayurveda. *Vrana* and its 60 different types of healing is sizably described in *Sushrut Samhita*.^[4] *Basti* is one of the factors mentioned for "*Adhahkaay vrana*"; especially *Parikartika*^[5]. *Sushruta* has mentioned "*vranya and vishapah*" properties of *Patoladi gana* supporting the healing action.

Nowadays there is observed a high incidence of *Parikartika*, *Acharya Sushruta* has mentioned *Vrana basti*

for healing of the *Vrana*. This principle has been applied for the treatment of *Parikartika* using *Patoli Taila*. This is the study of the efficacy of *Patoli* [Trichosanthese dioica] *taila* in an experimental group in the management of *Parikartika* (Fissure in ano) on symptoms like sphincter spasm, itching, pain, bleeding, etc which was evaluated and compared against *Jatyadi Taila* in the control group.

MATERIAL AND METHODS

In the present study, patients attending the OPD and IPD of *Shalyatantra* department of Government Ayurved College, Nagpur were taken as subjects. In this study, the study design is a Randomized control trial done by the Lottery method while the sample size was 100 divided into two groups of 50 patients each. And follow up was taken on the 8th, 15th, 22th & 29th day.

Inclusion criteria

1.Patients were selected irrespective of age, sex, marital status, religion, educational and economic status. 2. Age between 20-60 years. 3. Patients having acute or chronic Fissure-in-ano with sphincter spasm, itching, pain, bleeding.

Exclusion criteria

The patients with a disease like Tuberculosis, Ulcerative colitis, Fissure-in-ano associated with Haemorrhoids and Fistula. Patients requiring emergency management were excluded.

Method of collection of data

Patients fulfilling the inclusion and exclusion criteria were selected. A total 100 no of patients were divided into two comparative groups. Patients were investigated for CBC with ESR, B.T., C.T., BSL Fasting & P.P., Urine-Routine, and Microscopic. Group-A was an experimental group including 50 subjects. *Patoli Taila Basti* was given per rectum once a day for the minimum duration of 7 days and the effect was evaluated. Group-B was a control group comprising 50 subjects. *Jatyadi Taila Basti* was given per rectum once a day for the minimum duration of 7 days and the effect was evaluated.

Subjective Criteria:

- A) 1. Kandu(itching) 2. Gudapida(pain) 3. Raktastrava (bleeding per rectum) scales are explained in Table 1
- B) **Sphincteric spasm**: No spasm, spasm present, severe spasm, and slightly puckered anal aperture.
- C) **Healing**: Healed, in healing stage and no sign of healing.

OBSERVATIONS AND RESULTS

In group A i.e. experimental group patients were treated with *Patoli Taila vranabasti* and in group B i.e. control group patients were treated with *Jatyadi Taila Vranabasti* for 7 days. After 15 days follow-up was taken. The comparison of subjective and objective criteria before and after treatment of groups A and B was assessed by the Wilcoxon sign rank test. By Mann-Whitney U-test comparison of change after treatment was assessed.

Table 1:	Grades of	Kandu,	Gudapida,	Raktastrava	per
rectum					

Grade	Kandu	Gudapida	Raktastrava
Ι	No itching	No pain	No bleeding
Π	Complains on asking	Complains on asking	Streak/notice rarely
III	Once or twice a day	During & after defecation relieved without medicine	0-10 drops occasionally
IV	Very often, discomfort	Relieved with medicine	10-20 drops spotted
V	Constant itching	Throughout the day affecting routine work	Profuse bleeding or more than 20 drops

Assessment of the effect of Vranabasti

The total effect of *Vranabasti* was assessed in terms of cured, markedly cured, improved, and no change. **Cured-** If the sign and symptoms were relieved >75% was considered in the cured category. **Markedly cured-**If the signs and symptoms were relieved 51% to 75% considered as markedly cured. **Improved-** If the signs and symptoms were relieved 25% to 50% was considered as Improved. **No change-**If the signs and symptoms were relieved below 25% was considered as no change. **Not followed.** Lama (left against medical advice)

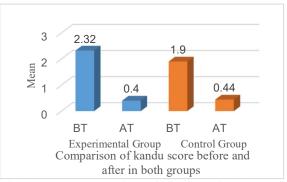


Fig. 1: shows a comparison of *Kandu* (*Itching*) score before and after in both groups

Fig. 1 shows the mean value of *kandu* in both the groups before treatment was 2.32 and 1.90. After treatment mean value of the experimental group was 0.40 with SD 0.60, whereas that of the control group was 0.44 with SD 0.61.

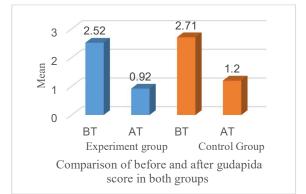


Fig. 2: shows a comparison of before and after *Gudapida* (pain) scores in both groups

The mean value of the *Gudapida* score of both groups before treatment was 2.52 and 2.71 shown in fig. 2. After treatment mean value of the experimental group was 0.92 with SD 0.80, whereas that of the control group was 1.20 with SD 0.78.

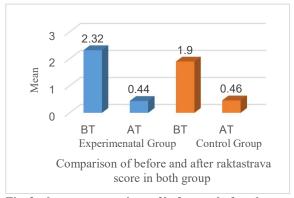


Fig. 3: shows a comparison of before and after the score of *Raktastrava* in both groups

The mean value of *Raktastrava* score of both groups before treatment was 2.32 and 1.90 as shown in fig. 3. After treatment mean value of the experimental group was 0.44 with SD 0.61, whereas that of the control group was 0.46 with SD 0.61.

Fig. 4 & 5 shows the mean value of sphincteric spasm score of both groups before treatment was 2.42 and 2.34, healing score was 2.34 and 2.32. After treatment mean value of experimental group was 0.62 with SD 0.49 for sphincteric spasm and for healing it was 0.58 with SD 0.53, whereas that in control group of sphincteric spasm was 0.62 with SD 0.49 and for healing it was 0.78 with SD 0.61.

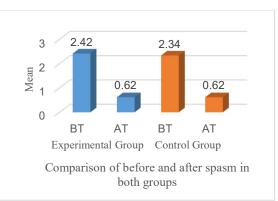


Fig. 4: Shows comparison of sphincteric spasm and healing before and after in both groups respectively

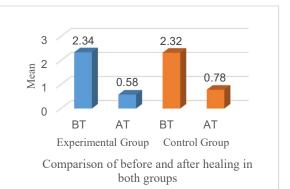


Fig. 5: Shows comparison of sphincteric spasm and healing before and after in both groups respectively

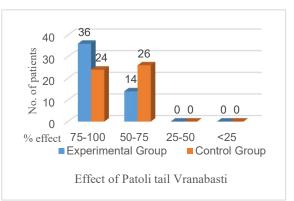


Fig. 6: Total effect of *Patoli Taila Vranabasti* The total effect of the experimental group is 76.10% and for the control group is 74.81% p-value is 0.224 which is non-significant.

DISCUSSION

Parikartika has been mentioned in *Ayurveda as a complication of Virechana and Basti* by different acharyas. It is named *Parikartika* because it causes *Parikartanvat vedana* i.e. cutting and burning sensation at the *Guda* region⁹. *Acharya Kashyapa* has emphasized the *Doshas*

like *Parikartika* is Vataja in nature, *Guda Daha* is due to *Pitta*, itching, and infection rarely seen is due *Kapha*.^[6] There are various herbal drugs mentioned for the treatment of *Vrana*:

1. *Sushruta* has stated the "*Vranya* and *Vishapah*" effect of *Patoladigana* for healing purposes.

2. *Yogaratnakar* has mentioned that *Patoli Taila* is useful in burn ulcers, and for burning sensation.^[7]

In *Shushrut samhita*, *Patola* (Trichosanthese dioca) adverts to *Patoladi gana* along with its *Rasapanchak*.^[8] The *Vranya* and *Vishapaha* effects of *Patoladi gana* described in *Shushrut samhita* show remarkable significant results pertaining to healing properties in the present study. It is cost effective and also easily available. It has *Tridoshaghna* property, *Vedanasthapana*, *Vranaropana*, and *Shodhana*.^[9] *Madhura* and *Shita Guna* drugs are advised to be used in chikitsa^{{10]}</sup> *Parikartika nashaka basti* includes various formulations also includes *Shita guna* stated by *Charaka and Sushruta*.^{[11][12]}

Raktashodhana is its Karma (action) that lessens the classical symptoms of *Parikartika*.^[13] Due to *Tikta Rasa Patola* is effective in *Ropana Karma*.^[14] This way *Patola* is found effective in this study of treatment of fissure-inano. Based on the clinical assessment of *Patol Taila* and *Jatyadi Taila*, both the groups show the analgesic property. *Patoli Taila* has been found more significant than *Jatyadi Taila* in itching, pain, bleeding, spasm, and healing of the fissure.

CONCLUSION

In this study pain, itching, bleeding, spasm, and healing of fissure have improved after *Patoli Taila Basti* in the management of the fissure in ano. Also, healing was found to be more significant than the control group. Fissure is more prevalent in the 31-40 years of age group and predominantly in the Female gender. Excessive intake of *Lavan, Katu, Tikta, Ruksha, Ushanahara* are the main causative factors. *Patoli Taila* has a high significance of reducing *Kandu* in *Parikartika* as compared to *Jatyadi Taila* along with healing of an ulcer. Fissures can be managed without the help of surgical measures.

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Case Study

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EFFECT OF JALAUKAVACHARAN IN PROLAPSED THROMBOSED HEMORRHOID- A CASE STUDY.

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ABSTRACT

Hemorrhoid is a very commen Ano-rectal condition defined as the symptomatic enlargement and distal displacement of the normal Anal cushion. Hemorrhoid (Arsha) is an ailment that affects all the economic groups of population. The disease has its own complications like severe hemorrhage, inflammation and thrombosis which lead to severe pain disable to perform routine work. Prolapse hemorrhoid is an emergency condition. The condition become worse after thrombosis and strangulation of the pile mass. Urgent surgical intervention is required in all the cases. Venous return of strangulated hemorrhoid mass become very low and severe edema takes place along with serious painful condition. Hemorrhoidal mass is not able to reduce further in Anal canal. Patient struck in serious, urgent surgical

attention. Jalauka can be used as a successful tool in this situation by relieving venous pooling of blood and also by liquefying the clotted blood in hemorrhoidal mass. In present case study, a patient of grade 4 hemorrhoid was cured by Jalaukavacharan.

INTRODUCTION

Ayurveda, the Indian system of medicine comprises of eight different specialities in which Shalyatantra, the surgical school of thoughts has got prime importance. Acharya Sushruta father of surgery has considered Arsha in Ashta mahagada. In Ayurveda.

I

1). It is a common disease of anal canal. Acharya Charak believes that vitiated doshas follow bahya and abhyantar rogamarga to produce Arsha.

2). Acharya Sushruta has described Arsha as rakta-mansa pradoshaj vyadhi common complaints. Complication of Arsha includes trishna, aruchi, shoola, raktastrava, shofa, atisara as per the Acharya Sushruta.

3). In Ayurveda, Kshar sutra ligation is a preferred surgical treatment in advance stage of Arsha. But in some situations, where surgery is not possible, due to patients complication, "Jalaukavacharan" is a good alternative treatment available. However Acharya Sushruta has contraindicated bloodletting in Arsha.

4). But in certain critical situation of hemorrhoids, it is advisable.

5). Acharya Charak has mention Jalauka karma in Raktaarsha(bleeding piles).

6). Acharya Vagbhata has also advised bloodletting in sanchit dushta rudhira(thrombosed), shoon(swelling), and kathin(hard) Arsha.

7). The present study is a case report of a grade 4th hemorrhoid patient, which was treated successfully with Jalaukavacharan.

Hirudin, calin and factor X_a which are present in salive of leech act as anti-coagulant and prevent clot formation, bdellin B-3 act as anti-inflammatory agent there by maintaining normal circulation.

AIM

The aim of case study was to find out the result of Jalaukavacharan in case of prolapsed and thrombosed hemorrhoid.

CASE REPORT

A 41yr old male patient, OPD registration no. 4711/168 come to OPD of Shalya dept. 25/5/2021 in a very panic and emergency situation. He had the following complaints since 5 yrs on and off symptoms.

- Sever pain and burning sensation in Anal region.
- Two big mass out side the Anal verge.
- Bleeding per rectum
- Difficulty in passing stool
- Constipation

Past History

He had a past history of surgery of hemorrhoids at an Allopathic hospital taken injection sclerotherapy before 3yrs back.

He had no history of DM, HTN, CHD or Koch's.

Examination

Patient was examined in lithotomy position. He has bluish blackish mass coming out from his anal verge. After proper digital examination it was found that there was a large prolapsed, thrombosed pile mass at 3 & 11 o'clock. It was not reducible pile mass at site so, it was diagnosed as case of grade 4th hemorrhoid. The patient was admitted in male surgical ward Reg. no. IPD 168.

Systemic Examination

Patient was conscious, oriented and good general condition. His vitals were recorded normal. B.P.- 130/80 mm of Hg, P.R.– 82/min. Temp. – 99 F. Baseline data collection and laboratory investigation were done on 25/5/2021 before Jalaukavacharan.

Blood Investigation

25/5/2021 Hb - 9.8 g/dlMCHC - 31.2g/dl TLC - $8.8 \times 10^{3}/\mu l$ MCH - 23.9 Pg RBC - 3.94×10^{6} /µl Platelet count – 1.74 lakh PCV – 30.1% MCV - 76.4FL B.T.-1Min.,50sec N – 6.3 [′]. C.T. – 5Min, 10sec. $L - 0.8 \times 10^{3} / \mu l$ P-LCR – 31.3% $BSL - \mathbb{B} - 90 \text{ mg/dl}$ ECG – normal HbsAg - Non-reactive HIV – Non-reactive Chest X-ray PA view- Normal

METHODOLOGY

Patient was admitted to Shalya IPD in male ward taking written consent of patient.

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Procedure of Jalaukaavacharan

As the patient was belonging to the emergency conditions assessed on the basis of signs and symptoms, respiration, pulse, blood pressure, apprehensive look, anxiety, etc. Hence it was not possible to put the patient, the known procedures of purvakarama for Jalauka application. Therefore patient was subjected to the application of Jalauka to the relief to the patient.

Material Required

- 1). Jalauka
- 2). Warm and cold water
- 3). Gloves
- 4). Gauze pieces
- 5). Cotton pads
- 6). Haridra churna
- 7). Bandages

Purvakarama for jalauka

To activate the Jalauka, they were put in a bowel containing a solution of haridra and water for 10-15min. later on Jalauka were cleaned by keeping them in another bowel, of pure, water for 5-7min.

Position

The patient was advised to lithotomy position for better exposure of anal region.

Pradhan Karma

Jalauka was applied over the most prominent part of the swelling at 11 & 3 o'clock. There after the Jalauka were covered with a gauze piece to keep it moist over the gauze piece, few drops of water were poured on and often. As soon as the Jalauka showed the signs of elevated head and pumping action of the anterior sucker region, the times was noted, when the Jalauka got detached at their own.

Procedure during application

Due care was taken, so that the Jalauka do not enter the anal canal.

With the onset of symtomatologies like burning, itching, pricking pain. The Jalauka were removed by sprinkling haridra powder.

Paschat karma

Some after the Jalauka got detached, the site of application was cleaned and after that sprinkling of haridra churna was done followed by a 'T' bandage. Patient were kept under observation in IPD. Reduction in the size of the pile mass, local swelling bleeding and other signs were recorded.

Jalaukavacharan 3 setting done on alternate days. First setting on.

1st setting on 27/6/2021
2nd setting on 29/6/2021
3rd setting on 31/6/2021
After that patient was observed for 10 days.

Oral medication

Tab. Arsh kuthar ras 2 tablet BD. Gandharvaharitaki churna 10gm HS with koshana jala at night.

Local Application

Hot sitz bath with Triphala curna kwath BD Matra basti of Jatayadi taila 5ml at night.

Observation

Symptoms were taken into consideration under grading symptoms according to their severity

No symptoms -0

Mild – 1

Moderate - 2

Severe -3

Observation Table

Symmetry	Before	1 st	2 nd	3 rd
Symptoms	treatment	setting	setting	setting
Pain	3	3	2	0
Tenderness	3	2	1	0
Burning Sensation	3	2	1	0
Bleeding	3	2	1	0
Mass Prolapsed	3	3	2	1
Constipation	3	2	1	0

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RESULT

-As the Jalaukavcharana was started patient got relieved of pain and tenderness discomfortness level was also reduced.

- After 2nd setting size of prolapsed hemorrhoid was also reduced.

- After 3rd setting he was completely relieved and satisfied with the treatment only painless tag like structure is left in anal verge.

- He was discharged after giving proper diet instruction.

- Patient follow up after 7 days in OPD on examination observed that hemorrhoid mass was shrink in size.

- No bleeding or pain or tenderness was observed during per-rectum examination.

DISCUSSION AND CONCLUSION

Severe tenderness and bluish-black discolouration are the characteristics features of thrombosed pile mass. Bdellin present in the saliva of Jalauka act as anti-inflammatory agent there by reducing inflammation, maintains normal circulation and recovering discoloration. Anesthetic gel present in saliva of Jalauka reduces pain and tenderness giving symptomatic relief. Due to qualities of Jalauka anti-coagulant, vasodilator, thrombolytic, anti-inflammatory and anaesthetizing substances. Jalauka has been proved as a medical device. Though their sucking effect, Jalauka stimulate circulation of cells at risk of necrosis and maintain oxygenation of the tissue. They accelerate the hematoma congestion process. They ensure drainage and by partially or totally replacing venous return, they can be used in venous disorders. They benefit of Jalauka is that they are particularly attracted to deoxygenated blood.

In this case study it was observed that Jalaukaavcharan was found to be very effective in thrombosed hemorrhoids. Patient completely relieved after 7 days. Hence Jalaukavacharan can be an alternative treatment in the management of thrombosed hemorrhoids in which surgery is advised and patient is not willing for same.

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REVIEW ARTICLE

Review of *Rasashastra* from the Perspective of Adverse Drug Reactions

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ABSTRACT

Pharmacovigilance is the need of hour to keep an eye on the adverse drug reactions induced by all systems of medicine. A Drug or formulation produces adverse events if it is not procured, produced, and used as per the classical guidelines. Various classical preparations along with some proprietary formulations were manufactured by the developed pharmaceutical industries which have brought many challenges about safe use of Ayurvedic Medicines especially metallic preparations and herbo-mineral drugs of *Ayurvda* are always in doubt regarding safety and toxicity. *Rasashastra* is the alchemy of traditional Indian system of medicine which deals with the preparation of therapeutic products by using metals, minerals, animal products and toxic substances. *Rasaushadhies* were known to cure illnesses in a short time period, very small dosage, and also easily palatable. Being the pharmaceutical branch *Rasashastra* literature is full of standard methods to prepare various medicines, and it also mentioned adverse drug events occurred due to inaccuracy in the procedures accepted. In this review article an attempt was made to throw some light on origins of those adverse drug reactions mentioned in literature.

Key Words Rasaushadhi, Adverse drug reaction

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INTRODUCTION

Medicine or Drug is the one amongst four basic factors of the *Ayurvedic* treatment¹. The *Ayurvedic* Materia Medica mentions resources of plant, animal, metal, and mineral origin² which are suggested to be used in numerous pathologies. Considering the resources, *Ayurvedic* formulations are mainly -1) Herbal 2) Mineral / metallic and 3) Herbo-mineral combination. Herbo-mineral, metallic and mineral drugs are called as *rasaushadhi*. *Rasushadhis* are palatable, highly effective in minute doses in a very short time, builds popularity and occupied a significant place in *Ayurvedic* therapeutics³. They are being routinely prescribed in different parts of the India for hundreds of years but globally a serious question was raised about the safety of *Ayurvedic* preparations because it contains various heavy metals like mercury, lead, and also some poisonous substances like aconite.





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Any untoward effect caused because of a drug, aside from expected beneficial action is named as adverse reaction⁴. A drug or formulation produces adverse events if it is not obtained, manufactured, and prescribed as per the classical guidelines. Some therapeutic factors which can also contribute to a rise within the chances of ADR of *Ayurvedic* medicines like the irrational use of medicines without precision in diagnosis, disease variant, stages of the disease, and specific prototype of the person.

In earlier period *Rasavaidyas* or *Ayurvedic* Physicians were used to prepare medicines for their patients themselves but now days increased industrialization in *Ayurveda* manufacturing brought many challenges regarding drug safety. Good manufacturing practices are essential to produce quality genuine medicines. The Drug and Cosmetic Rule 1945 also in its Schedule T explains G.M.P. for *Ayurveda* Drugs which clearly target on the Safe Basic control measures and procedures that need to be administered to produce a product that meets specifications and is safe to consume.

Rasashastra, an important branch of *Ayurveda* entirely uses various metals and minerals in therapeutics. It deals with types, characteristics, processing techniques, properties, and therapeutic uses of metals, minerals & poisonous herbs. Ancient *Ayurvedic* scholars were very much aware of the toxic nature of raw material used and keeping within the mind they have described '*Aushadh sevan janya vikar*' in their classics elaborately, which reflect their concern about the adverse effect of *Ayurvedic* drugs. There are some guidelines given by the *Rasacharya* to minimize adverse drug reactions and increase the safety of *Rasaushadhi* during their preparation and use.

Grahva prakar

 Table 1 Rasadravya grahyagrahyatva (characters and variety of authentic raw material)

 Name of rasadravya
 Grahya lakshana

Traine of <i>Fusuarus yu</i>	Oranya aakshana	(Acceptable variety)
Abhraka	Black colour, Sigdha, Heavy, Pruthudala,	Krishna Vajrabhraka
Makshika	Bright golden colour with blue ting, heavy, angle less	Suvarnamakshika
Vimala	Heavy, Shiny, Hexagonal	Hemavimal
Shilajatu		Karpurganghi Shilajeet
Rasak	Without lamellae	Karvellak
Gandhak	Shukapicchavat-Greenish Yellow, Hard, Smooth	Amalasar
Gairik	Deep red Colour ,Soft ,Smooth	Suvarnagairik
Hartala	Golden colour, Guru, Snigdha, Tanupatra, Bright	Patra
Manshila	Red colour with yellow tinge, heavy	Shyamangi
Kapardika	Oval shape ,large edges, yellow tinge,	
	possess nodule on its back,	
Hingul	Coral red colour, possess white shiny lines	Hamsapada
Suvarna	Red colour on heating, White on cutting, yellow while	Khanija
	rubbing on touch stone, shining, bright, heavy, soft, smooth	
Rajat	White like moon while heating-cutting and running on touch	Khanija
	stone, bright, heavy	
Tamra / Copper	Smooth ,red, heavy, malleable	Nepalaka
Vang / Tin	White like silver, soft, smooth, heavy, melt rapidly	Khuraka
Naag / Lead	Black, heavy, soft, rapidly melt, smells putrid.	
Yashada	Heavy, soft, bright, quick melting	
Vatsanabh	Bulky, Heavy, smooth, newly harvested, not contaminated	





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MATERIALS AND METHODS

A) Selection of raw material:

The raw material used to prepare medicine should be authentic and prescribed quality⁵.

Rasashastra literature mentioned differing kinds of metals and minerals along with the preferred varieties (*Grahyadravya*) as shown in table no.1. If the chosen material variety is different from the approved variety mentioned within the texts then the prepared medicines are of deprived quality and it would be harmful to the individuals.

B) Shodhan / purification process:

Metals, minerals, vishadravya are considered to be toxic on consumption but while using it as an ingredient in *rasaushadhis*, these materials should pass through a unique pharmaceutical process called *shodhan* or purification⁶. It was indicated to diminish the toxic properties of rasadravya. like dhalan. Various processes nirvaap, swedan, bhavana, etc with the particular medium on rasadravya results in the elimination of doshas⁷.If unwanted any substance was administered further without purification then the prepared medicine may leads in serious adverse events as shown in table no.2.

Table 2 Toxic effects due to use of A	s <i>huddha dravya</i> for me	edicine preparation
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Table 2 Toxic effects du	e to use of Ashudunu dravyu for medicine preparation	
Name of Rasadravya	Toxic effects caused by ashuddha dravya	
Abhraka	Hrud-parshvapida, Shotha, Pandu, Kushtha roga, Agnimandhya, Guru. Vata-kaphavardhaka	
Vaikrant	Kilasa, Kushtha, Daaha, Parshwapida&pandu.	
Makshik	Netravikara, Mandagni, Kushtha, Halimaka.	
Shilajatu	Daaha, murccha,Bhrama,Raktapitta,Agnimandya	
Tuttha	Vaanti, Bhraanti	
Kharpara	Vaanti, Bhraanti	
Gandhaka	Kushtha, Taapa, Bhrama, Pittajavikara, Roopasukha-virya-balahara.	
Hartala	Daaha, kshobha, kampa, toda, raktavikara, kushtha, vaatakaphaja roga karaka, mrityukaraka.	
Manahshila	Ashmari, mutrakruchcha, mandagni, malabaddhata.	
Hingula	Andhata, kshaya, klama,bhrama, moha, prameha.	
Swarna	Sukha-virya-balanaashaka, rogakaraka.	
Rajata	Aayu-sukha-balahara, santaapa, malabaddhata, rogkaraka, angasaada.	
Taamra	Vaanti, moorchcha, bhrama, utklesha, kushtha, daaha, moha.(ashtadosha)	
Lauha	Aayu-bala-kantinashaka, hridpida, shaithilya, rogakaraka	
Vanga	Kantihara, kushtha, kilasa, gulma, prameha, kshya, paandu, shotha, shleshma-jwara, bhagandara, shukraashmari, raktavikara.	
Naaga	Kantihara, kushtha, sandhivedana, pakshaghata, gulma, prameha, aanaha, shotha, bhagandara, agnimandhya, anshashotha, udarashula, kshya.	
Yashada	Gulma, prameha, kshaya, kushtha.	
Vatsanabha	Daaha,murcchaa, hrudgati avarodha,mrutyu.	

C) Drug manufacturing process:

Rasausadhis although named after mercury '*rasa*' or '*parada*', can be classified into two distinct groups mercurial and non-mercurials. *Murcchana* is the process to induce assured therapeutic properties in *parad* with a certain process while *marana* or incineration is the methodology where

metals and minerals get converted to bodily assimilable ash.

1) Murcchana8:

It is the process in which mercury with or without sulfur is converted into a suitable compound, which could be used internally for curing diseases even without reduced to ashes. Basic types of





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murcchana are described in table no.3. Long-term use of *sagandha* murcchana was permissible, itself suggest the safety of a selected formulation. *Rasaushadhies* prepared by *parada* without *gandhaka* i.e. *nirgandha murcchana* should not be used for several days; its use was restricted till the disease condition cured. If such formulations were continued further then it may produce adverse events.

reduced to ashes by *puta*. It yields an assimilable

product called *bhasma* which will not create any

harm to the human body.

 Table 3 Types of Murcchana

Type of Murcchana	Example	Duration of therapy
Sagandha murcchana	Kajjali, rasasindoor, rasaparpati	Can be used as long term therapy
Nirgandha murcchana	Mugdharasa, rasapushpa, rasakarpoor	Limited use till the disease cured.

2) Marana / Incineration:

Incineration is the process in which *rasadravya* with the help of *maraka dravya* and herbs are

 Table 4 Methods of Dhatu maran

Table 4 Methods of Dhatu maran			
Bhasma	Maraka dravya	Bhasma quality	
Ι	Parad / mercurial compound	Uttam bhasma (superior quality)	
II	Herbs	Madhyam (medium quality)	
III	Gandhak / sulphur	Kanishtha (inferior quality)	
IV	Ari loha	Durgunprada (non acceptable for internal use)	

Table 5 Puta required for various drugs

Name of rasadravya	Type of <i>puta</i>	
Suvarna , rajat , naag, vang ,mukta, praval	Kukkutaputa	
Louha , tamra , abhraka , shankh	Mahaputa , Gajaputa	
Makshika	Varah puta	
Hartala, somal	Bhandputa	

Table 6 Bhasma pariksha of rasadravya

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i) Maraka draya: Ancient Scholars of *rasashastra* explained four conducts⁹ of *dhatu marana* /metal incineration according to the *maraka dravya* used in the process as shown in table no.4. Administration of *bhasmas* prepared with *arilohas* was not suggested as it has the tendency to harm. *Rasoushadhi* manufactured with such *bhasma* as an ingredient may cause adverse events to the end-users.

ii) Application of puta: Temperature required for the preparation of *bhasma* was although the temperature employed in the *maran* that is *puta*. It helps in making the metals and minerals acquire better therapeutic values and also in removing or reducing their toxic properties to such an extent that they will not produce any harmful effects on body tissue when used for therapeutic purposes¹⁰. The type and number of *puta* were variable as it





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depends upon the material and purpose¹¹. Types of *puta* required for *rasadravya* are explained in table no.5. If adequate type and number of *puta* were not given then the *bhasma* was said to be '*apakwa*' and possibly will produce adverse effects¹².

iii) Bhasma pariksha¹³:

The processed sample of *bhasma* must be tested on the basis of specific parameters given in classical texts, organoleptic parameters like colour, texture, etc, physicochemical parameters*niruttha, amlapariksha, apunarbhav* etc. Specific *bhasma pariksha* was essentially indicated for some *rasadravya* as per table no.6 with added common parameters.

*iv)Amrutikaran*¹⁴: It is an important process found described in the context of *abhraka*, *louha* & *tamra marana*. It had been indicated to eliminate leftover *doshas* of *bhasma* and to make them suitable for therapeutic uses. If these *bhasmas* were used without *amrutikarana* then it will cause adverse effects due to the residual *doshas*.

Table 7 Apathya during rasaushadhi sevankaal

Name of Rasadravya	Apathya	
Parad	Kakarashtaka	
Abhraka bhasma	Kareer, karvellaka, kshara, vruntaka, Oil	
Louha bhasma	Kushmand, Til taila,mash,rajika, madhya, amlarasadravya	

 Table 8 Remedies to cure adverse effects caused due to rasaushadhi sevan (Vikarshanti Upaya)

 Name of Rasadravya
 Vikarshanti upaya

i (unite of itusuur ur ju	
Ashuddha Parad /Mercury	Kakamachi swaras
Amurcchit parad	Kushmandadi Gana, shuddha gandhanka + cow's milk
Abhraka	Atasibeej powder with water
Makshik	Kulattha kwath, daadim tvak kwath
Rasak	Cow's urine
Gandhaka	Cow's milk+ cow's <i>ghee</i> + sugar
Hartal	Kushmand swarasa + sugar + cumin seeds
Manshila	Cow's Milk + honey
Naag	Shuddha gandhanka + cow's milk

 Table 9 Contraindications of vishdravyayukta rasaushadhi.

Name of Drug	Individuals	Disease condition
Formulations of vatsanabha	Children, elderly, pregnancy	Heart disease
Formulations of ahiphena	Children, elderly, pregnancy	Diabetes, kidney disease, productive cough
Formulations of <i>jaypala</i>	Children, elderly, pregnancy	Piles, bowel disease, diarrhea, rectal prolapse

D) Drug administration (Sevanvidhi):

1) *Matra*/Dose: *Rasaushadhis* are more popular than herbal medicines because of their minute

dosage. All the *rasaushadhis* mentioned in the classical texts are described with their individual therapeutic doses best suited for the individuals.

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Consumption of remedy in *alpamatra* /reduced dose, or *atimatra* /overdose can lead to toxic or untoward effects.

2) Duration: Long-term consumption of certain drugs produce complications can eg: arogyavardhini is one of the popular rasaushadhi effectively used in many disease conditions but its use should be limited for one mandala period, after that, it may produce adverse effects. A mandala is a period of nearly 40 days in which time the human system completes one physiological cycle. Likewise, inadequate action of the drugs may be noticed if not administered for a prescribed period.

3) Sahapana and anupana¹⁵: Rasaushadhi's were advised to be administered with specified anupana and sahapana or vehicle, which helps in proper assimilation and absorption of the medicine. An ordinary medicine with appropriate anupana can yield extraordinary outcomes. It also helps in controlling the untoward effects of the prescribed drug.

4) Pathya-apathya: *Pathya* literally means anything it may be *ahara* and *vihara* which is not harmful to one's physiological state, in contrast, the *apathyas* are considered to be harmful to our body channels. The concept of *pathya-apathya* is important during the consumption of *rasaushadhi* as it may alter the pharmacokinetics of the drug. *Apathya ahara-vihara* may induce the failure of treatment which in turn leads to unintended drug reactions. *Apathya ahara* while consumption of certain *rasaushadhi* mentioned in ancient scripture is enlisted in table no.8. 5) Contraindications¹⁶: *Vishdravyas* are natural poisons but in *rasashastra* they are used as an ingredient in manufacturing *rasaushadhi* only after proper purification. Such formulations were contraindicated in some patients and certain disease conditions as shown in table no.9.Care must be taken while prescribing such cautious products otherwise it may leads to adverse drug reaction.

E) Remedies for Adverse drug reactions:

If any undesired events were noticed due to faulty processing, improper administration, or noncompliance of code of conduct, treatment procedures for such complications have also been prescribed as per table no.8

DISCUSSION

Ayurveda the traditional system of healing is gaining prime importance and becomes popular globally. World Health Organization in 2004 proposed guidelines of the safety monitoring of herbal medicines. To respond the same AYUSH decided implement Pharmacovigilance to programme to keep watch on the adverse drug reactions caused by the ASU drugs. Before that all users believed that the Ayurvedic formulations are harmless, without side effects but these all are evidenced as myths. Our ancient scholars are very well known about the possible adverse events, ample pieces of evidence available in the classics clearly reflect that the pioneers of rasashastra were well aware of the toxicity or untoward effects that can occur with the improper usage of metals







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or minerals. They have documented evidences of raw material authentication, standard operating procedures like *shodhana*, *marana*, *murcchana*, *amrutikaran* to convert inorganic material into therapeutic active compounds. Quality control parameters of the finished goods and user guide (*matra*, *anupan*, *kaal*, *pathya-apathya*) were also described deeply to avoid every chance adverse reaction. By chance any adverse reaction exists due to any reason than to overcome such casualties therapeutic remedies were also enlisted.

CONCLUSION

Rasaushadhi can cause adverse effect if it is not manufactured as per the classical guidelines. GMP is very much essential to prepare quality genuine medicines, which will be safe to consume. Unauthentic or Adulterated raw material, improper processing, lack of quality control and faulty administration, drug interactions are some possible reasons of ADR. Ancient *rasacharyas* were well versed with the, pharmacokinetics and pharmacodynamics of metallic preparations. Detailed literal awareness is necessary while practicing to curtail the occurrence of adverse effects.





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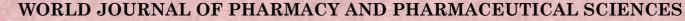
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9

AYURVEDIC MANAGEMENT OF PELVIC PAIN IN GYNAECOLOGY

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ABSTRACT

Pelvis is part of body that lied between the lower abdomen and the lower extremities. Pelvic pain present as main symptom in 71%-87% causes of gynaecological problem. The management modalities to cop with the chronic frustrating pelvic pain or acutepelvic pain are still not reassuring. Ayurveda can provide effective pain management protocol. Mainly pelvic pain may also occurs due to Vata Dosha depletion and due to this the management of pelvic pain in gynaecology should concentrate on Vata Dosha like Basti,Snehana, Swedana, Abhyanga, Yonipichu etc.

KEYWORD: Pelvis, Vata dosha, Basti, Snehana, Swedana, Abhyanga, Yonipichu.

INTRODUCTION

Pain is an unpleasant sensory and emotional experience associated with actual or potential damage. Pelvic pain is common symptom in gynaecology.

Pelvic pain is known as KUKSHI SHOOL in Ayurveda. Common cause of pelvic pain are improper dietary habits and intake of Vata increasing habits are consider to be the major causative factor of pelvic pain and disease. Mainly pelvic pain may occurs due to Vata depletion and due to this the treatment should concentrate on vata Dosha. Basti technique of

Panchkarma along with Swedana and local massage are the main Ayurvedic therapy used for the treatment of KUKSHI SHOOLA.

Ayurvedic herbs like Nirgundi, Amalaki and Erand along with formulation such asDashmool Kwatha and Abhayarishta are Helpful in treating the disease that lead to Pelvic Pain.^[1]

Types of pelvic pain-1.Acute 2.Chronic

Acute Pelvic pain- Acute pelvic pain is of short duration and generally the symptoms are proportionate to the extent of tissue damage. The basic mechanism of acute pain is due to irritation of peritoneum by either blood or infection.

Causes of Acute Pelvic Pain

- 1. Disturbed Tubal Pregnancy
- 2. Ruptured Chocolate Cyst
- 3. Ruptured corpus luteum or Follicular cyst
- 4. Acute PID
- 5. Tubo ovarian abscess
- 6. Following HCG
- 7. Abortion
- 8. Dysmenorrhea
- 9. Axial rotation of ovarian tumour pedical

Chronic Pelvic Pain

It is defined as the non cyclic pain of 6 month duration or more localized to the pelvis, anterior abdominal wall below the pelvis or lower back severe enough to cause functional disability that require medical or surgical treatment.

Causes of chronic pelvic pain

	Cyclic	Acyclic
1	Intermenstrual pain	Endometriosis or Adenomyosis
2	Dysmenorrhoea	PID
3	Premenstrual syndrome	Uterine displacement
4	Pelvic congestion syndrome	Uterine fibroid
5	Endometriosis	Ovarian cyst
6	Adenomyosis	Pelvic adhesion disease
7	Ovarian remanant syndrome	Intrauterine device
8		Trapped or residual ovarian syndrome
9		Idiopathic

Investigation

- 1. Blood investigation- for any infection
- 2. Urine examination- for UTI
- 3. USG or TVS-for adenex pathology like tortion, ectopic pregnancy or any uterine mass for fibroid.
- 4. X-ray abdomen- for free fluid suggest ruptured cyst
- 5. Laparoscopy -It is helpful to visualise pelvic pathology.²

Treatment

In detectable pathology where surgery is needed there surgery should be done eg. cyst, abscess, ectopic rupture etc.

Ayurvedic treatment for pelvic pain

Basti

Basti is procedure in which Kwath or Oil introduce as enema in the large intestine.

Preparation are mainly oil based or decoction based

Basti is useful in the treatment of Dysmenorrhoea, UTI, Ovarian cyst, PCOD, and also helpto maintain normal function in the pelvic area.

UTTAR Basti is given for the treatment of ovarian cyst and other uterine pathologies .andalso helps to regulate physiological function of uterus, and nerve function of uterus.

Niruha and Anuvasana basti are highly effective in Dysmenorrhea.

Swedana

Swedana is the procedure in which induction of sweating involves to reduce the Heaviness, coldness, stiffness, in the body.

Swedana is treatment given Vata dominant condition. Before giving swedana internal or external Snehan might be performed for Best Result.

Swedana is very effective in treating Dysmenorrhea. Therefor it can provide relief from pelvic pain caused due to period pain.

Abhyanga

Abhyanga is the procedure in which medicated oils are applied to the affected area and massaged in specific direction.

Massaging the lower abdomen with til tail or sarshap tail for about 10-15 min. Followed by Swedana helps to relief pelvic pain.

Abhyanga is also useful in treating Constipation and also enhance muscles and bonestrength.

Yoni pichu

Yoni pichu is the procedure in which soaked cotton pad with medicated oil or in medicine are placed in vagina or desired area.

Yoni pichu given with nimb tail, chnadanbala lakshadi tail or lukewarm til tail in PID, or in abnormal vaginal discharge, and before menstruation reduce pelvic pain.

Ayurvedic Herbs for pelvic pain- Nirgudi

Nirgudi is used to treat irritable bladder, rheumatism bloody discharge from bowl syndrome, Inflametry joint swelling, piles.

It has pain relieving Diuretic aromatic, antiparasitic properties.

Nirgundi is effective in the management of endometriosis and helps in relieving pelvic pain caused due to this condition.

Amalaki

Amalaki acts on the excretory, circulatory, and Digestive system. Amalaki used to treat condition like hepatitis, piles, UTI, Diabetes

It is also helpful in treating UTI and relieving pelvic pain due to urinary infection

Eranda

Eranda has Analgesic and purgative properties, and act on excretory, urinary, and digestive system

It is effective in the Management of Constipation, dysmenorrhoea, PID.etc.

Erand Tail is one of the primery hearb that are used for treating Vata Dosh related Disorder,

irritable condition and inflamed Bowl and also treating dysmenorrhoea and relieve pelvic pain.

Musta

Musta is used to treat candida and yeast infection.

It is Useful in treating dysmenorrhea, bloody stool, Diarrhoea one of the symptom of IBS, it also releves pelvic pain caused due to IBS.

Ayurvedic Preparation for Pelvic pain-Dashamool Kwath

Dashmool Kwath is a decoction prepared from dashmoola[Bilva, Shonak, Agnimanth,Patala, Gokshur, Kanatkari, Prushniparni, Gambhari, Shaliparni, Bruhati]

This medicine is primarily indicated for Vata Vyadhi, and also used to treat Dysmenorrhea and Pelvic pain.

Abhayarishtam

Abhayarishta consist of 11 ingredient [Haritaki, Amalaki, Pippali Vidang, mrudvika, Madhuk pushpa, chavya Danti, Trivrutta, dhatki, Gokshur etc.

It indicated in the treatment of oedema, uterine pathologies, menstrual disorders etc. It can also provide pelvic pain caused due to Dysmenorrhoea and Constipation.^[3]

CONCLUSION

Ayurvedic treatment provide best pain management in gynaecological pelvic pain. As per Ayurved pain is caused due to vitiate Vata Dosha. Kati, Pakwashaya, Basti are Moolsthana^[4] of vata thats why the Kati Shoola is best managed by Ayurvedic treatment.

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Raktdhara Kala: The Endothelial disfunction in Covid 19								
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Abstract:

Kala is prime topic described by Aacharya Sushruta in Sharir sthana. Kala is limiting membrane between the Dhaatu and Aashaya. Raktadhara Kala is a second prime Kala. It is situated in a mamsa and holds the Rakta present in Sira, Yakrut and Pleeha.

Raktadhara Kala can be correlated with endothelial lining of the blood vessels. Endothelial cells release substances that control vascular relaxation, contraction, as well as enzymes that control blood clotting immune function and platelet adhesion.

Covid-19 which is a zoonotic in origin and mostly spread through respiratory droplets. Corona Virus is a causative agent. SARs-CoV2 has spike protein which plays a key role in ACE2 receptor recognition. The second stage of covid-19 is characterized by pulmonary inflammation and coagulopathy. Normal function of Endothelium is hampered in second stage of covid-19. Increased levels of inflammatory biomarkers such as CRP, ferretin , IL-6, IL-1, D -dimer are seen .

Endothelial activation due to covid-19 and dysfunction with comorbidities are suggested for be coagulation cascade in the blood vessels.

Key Words: - Raktdhara Kala, Sira, Yakurt, Pleeha, Covid19, Spike Protein, ACE2

Introduction: -

Ayurved sharir has many terminologies which

are explained at many places in ancient campaign India. Especially many terminologies like Kandara, Kurcha Mamsarajju, Sanghat, Simanta are described in 5th chapter of Sushruta Samhita. Kala sharir is also one of them.

Acharya Sushruta mentioned the concept of Kala in Garbhvyakaran Sharir Adhaya of sharirsthan with detail development of body parts of Garbha.

Kala is limiting membrane or layers in the body situated between Dhatu and Ashaya¹.

Seven kalas are not only the limiting, covering membrane but also perform some vital functions of the body. These are special membranes in the body which are having important role in performing body physiology. They provide support and protection to the organs. The cell membranes separating each and every cell can be considered as Kala.

Among seven Kala Raktdhara Kala is said to be second prime Kala in the body. It is situated in mamsadhara Kala (the membrane that holds muscle tissue) and holds the Rakta present in Sira, Yakrut (liver), Pleeha. (Spleen).²

Therefore, the major role of Raktadhara kala is to support Rakta and help for its circulation throughout the body. As per present knowledge of contemporary science, Raktadhara Kala, mentioned in Ayurveda can be correlated with endothelial lining of the blood vessels and sinusoids of liver and spleen³.

Kala as per Ayurveda performs vital functions of the body and any deformity or its malfunction will lead to pathology. The Doshs are moving across the body in their normal as well as in abnormal form but wherever they get suitable environment they get stuck to respective body part and results in formation of disease. If this principle of Ayurveda is applied in case of kala then it can be said that kala can also be a sight of pathology. If Kala performs its normal functions then it will hold body physiology but when it will not able to perform its normal function then it will lead to some disease. ⁴

Certain group of diseases is transmitted from one person to another by direct or indirect contact. Another group of disease is born from a common source of polluted water, air, land and or disturbed climate which refers to the board heading of "Janapadadhwamsa". Janapada means community, Dhwansa means perishing or destruction.⁵

This Janapadadhwamsa is closely associated to modern scientific knowledge of epidemics. Now a day corona virus which is pandemic.

Coronavirus disease covid-19 which is zoonotic in origin and mostly spread through respiratory droplets, has caused a big threat to mankind. Outbreak of covid-19 has been declared pandemic by WHO. Novel virus belonging to corona virus CoV family is causative agent. It causes systemic disease with possible involvement of kidneys, heart, blood vessels. Severe damage to the blood vessels leads to thrombosis⁶.

AIM: -

- To study basic concept of Rakatadhara Kala in Ayurveda.
- To find out applicability of Raktadhara Kala in covid19.

Objective: -

Raktadhara Kala can be one of treatment site for management of covid19.

Matrials and Methods: -

Classical texts of Ayurveda – Sushruta Samhita, Astangasangraha, Astangahridaya and Sharangdhar Samhita.

Reviewing of Journals, Article, Internet Material and previous research paper related to this article are referred.

Observation: -

Kala is one of the basic structures that has been described in Ayurveda. Kala is a thin membrane, which lines the internal cavity of Ashayas (organ that hold the vital elements), blood vessels and fibrous capsule of the joints and so on. Kala separate the Dhaatu (vital elements) and the Ashaya.

The Ashaya is the cavity that gives Ashraya (holds) to the Dosha, Dhatu and Mala (waste products of the body). The Dhatu lives in Ashaya and inner lining of the Ashaya is called Kala. If we cut wood, the cross section of a wood shows its internal structures with its different layers and parts. In the same way, we have to cut a superficial layer of mamsa (flesh) to reveal the Dhatu. It means that Dhatu are principle factors of our body and they are located deeply. We have to incise the covering to reveal these Dhatus. Each Kala is different from other⁷.

According to Acharya Sushruta, Seven kalas are Mamsadhara kala, Raktadhara kala, Medodhara kala, shleshmadhara kala, purishdhara kala, pitttadhars kala, shukradhara kala^{.8}.

Raktadhara Kala is second Kala which remains deep in mamsadhara kala.

Sira (blood vessels without pulsations), Yakurt (liver) and Pleeha (spleen) are the locations of Raktadhara Kala.²

Sushruta elaborates the characteristic feature of Raktadhara Kala with the help of simile. We take incision, a plant which produces exudate i.e., milky substance (kshiri). In the same way when there is incision to the skin, blood oozes out⁹.

Yakurt, Pleeha and Raktavahi Dhamanya are the moolsthana of Raktavaha strotas¹⁰.

Inclusion or exclusion of Dhamani makes a big difference in the basic nature of the structure of kala and strotasa.

Acharya Sushruta has described the Viddha lakshana of Raktavaha strotas are shyavangata (darkening of the skin) cyanosis, Pandu (pallor skin). These are the symptoms of mild-to-moderate hemorrhagic shock but he has not described viddha lakshana of Raktadhara kala because of Ashray Ashrayi Sambandha between Raktvaha Strotas and Raktdhara Kala⁷.

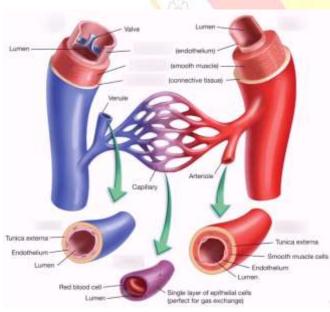
Traumatological injuries and communicable diseases demage Raktadhara kala. In viral infections such as AIDS,Dengue,Ebola thrombosis is common. So as in covid19 hypercoagulability is seen. SAR-COV2 infection can be grouped into Asymptomatic infection, mild illness, moderate illness, severe illness and critical illness. As the severity advances there is involvement of organs (lungs, heart, kidneys) and blood vessels¹¹.

Actually, Kala means different types of membrane like fibrous, serous and mucus, supporting and separating the fascia, septa, sheath and the capsule which covers the organ externally or internally and separates from one structure to another¹².

"Dhatva -shayan-tar maryadah" It is clear that Raktadhara Kala is a membranous limitation between Rakta dhatu and Aashaya (cavity of vessels). Raktadhara Kala is present within the capillaries, blood vessels and also the vascular organs. Sharirbhav (Dosh, Dhatu Mal) are permanu Swarup. They cannot be seen and they perform normal function to target organs. So as Rakta Dhatu, Raktdhara Kala are also permanu Swarup i.e., Microscopic¹³.

Modern science has explained the different types of blood vessels which include artery, vein, capillary, arteriole and venules. Anatomically there are three distinct layer which form wall of vessels that is tunica externa, tunica media, tunica intima¹⁴.

The three layered structure is present within all vessels.



The tunica externa and tunica media are not in direct contact with the blood. Tunica intima is direct contact with blood.

Special type of structure called sinusoids are present inside the liver and spleen in very large amount. Wall of sinusoids consists of endothelial cells and its Prime layer which holds the blood under circulation. The wall of human heart is composed of three layers epicardium, myocardium and endocardium. The inner lining of the heart is in direct contact with blood. It merges with inner lining of endothelium of the blood vessels¹².

Covid-19 is a pandemic situation caused by respiratory virus which makes beeline for the cells lining blood vessels, filling them up like a Gumball machine and shredding the cell from Inside out. Blood vessels are blocked and blood clots are formed because of the lining damage¹⁵.

Discussion: -

Kala is important concept described in Ayurveda. Kala is one of the special membrane in the body which performs some functions to assist and maintain body physiology. Snayu pratichanna, Jarayu santat, and shleshma vestita can be correlated with fibrous, serous and mucous membranes in the body¹⁶.

Both Sushruta and Vagbhata 1 metioned that Raktadhara Kala is generally present Mamsaabhyantara. While describing manasadhara Kala both Aacharya mentioned that inside the Mansa, Sira, Dhamani, Srotases are spread. Within the muscle, Rakta is circulating in the Tubular structure i.e., Sira, Dhamani.

In modern science, blood vessels are spread inside the muscle and lined by membranous structure.

The functional aspects of Raktadhara Kala is Raktadhatu which carries 'Pranavayu' and cells present in Raktadhatu are responsible for Jeevan Kriya. Raktadhara Kala is holding the Rakta and it gives protection to the Raktadhatu. Life is holded or protected by Raktadhara Kala. एक्तं जीव इति स्तिति.

Blood is in direct contact with tunica intima and sinusoids of liver and spleen. It flows through the lumen or interior opening of the vessel. The main component of tunica intima and sinusoids are endothelium which lie the entire vascular tree including heart and lymphatic vessels. Endothelium is thin layer of flattened cells that lines the inner surface of entire cardiovascular system. Sub endothelial layer, basement membrane and internal elastic lamina forms tunica intima¹⁷.

Raktadhara Kala is considered as semipermeable barrier separating lumen from the

vessel wall. Endothelium is recognised as a complex endocrine organ responsible for variety of physiological processes vital for vascular homeostatis. Endothelial cells transduce a wide range of physiological stimuli, produce a variety of signalling molecules that exerts autocrine and paracrine effects. Therefore, endocrine system is responsible for maintaining vasomotor tone, haemostasis thrombosis, inflammatory processes, platelet leukocyte vessel wall interactions and controlling vascular permeability¹⁶.

In viral infections such as AIDS, Dengue, Ebola, thrombosis Is common. The present era which is fearful due to rapid cases of covid-19 throughout the world. It has heavily affected the global population with more than 5.2 million infected and more than 337000 death are recorded.

Structure of corona virus

Corona virus particles are organised with long RNA Polymers tightly packed into the centre with nucleocaspid and surrounded by a protective capsid. Membrane glycoprotein (M), Spike protein (S) and Envelop protein (E) are present in corona virus.¹⁸

Stages of Covid19

Covid-19 has three consecutive stages in increasing severity.

Fist stage is characterized by infection with SARs-Cov2covid. In this stage flu-like symptoms develop, subsequently patient can develop viral pneumonia requiring hospitalization and mechanical ventilation.

2nd stage is also characterized by pulmonary inflammation and coagulopathy. Increased levels of inflammatory biomarkers such as C-reactive protein (CRP), Ferritin, IL-6, IL-1 and D dimer are seen.

the final stage is fibrosis of lungs.¹⁹

In the second stage of covid 19, coagulopathy is seen. There is involment of endothelium of blood vessels take place. This article is associated with endothelium of blood vessels i.e., Raktadhara Kala in covid-19.

As the spike protein (S) of SARs-Cov2 plays key role in ACE2 receptor (present in lungs, heart, Kidneys, liver and blood vessels) recognition and cell membrane fusion process. Replication and dissemination of SARs-Cov2 in systemic circulation lead to extrapulmonary manifestation which play a major role in the disease progression.

In the body increased number of virus causes the host cell to undergo pyroptosis and release the damage associated molecular pattern (DAMPs), including nucleic acid, ASC oligomers. DAMPs recognition receptors are present on the lung's epithelial cells, endothelial cells of blood vessels, and alveolar micro phages. Triggering the generation of pro-inflammatory cytokines and chemokines are released. Recognition of viral RNA triggers type 1 interferon production (IFN \propto , IFN β) which protects from viral infection. SARs COV 2 is sensitive to IFN1. The young individuals after recognition of viral DAMPS, the Type 1 interferon is secreted and Virus replication is inhibited. That is why majority of the cases being asymptomatic but in the old individuals with comorbid conditions due to immune senescence, delayed IFN1 production may lead to the recruitment of inflammatory cells the i.e. monocytes, macrophages and neutrophils. These cells secrete the use of pro-inflammatory cytokines known as cytokines storms that damage the lung alveoli causing ARDS.

Endothelial activation due to covid-19 and dysfunction with comorbidities are suggested to be related to the coagulation cascade.²⁰

covid-19 inducing a greater hypercoagulability SARs Cov-2 to infection induces the production of cytokines, resulting in a systemic inflammatory reaction which causes cytokine storm. Higher cytokine concentration can lead to systemic thrombus formation. Vascular endothelium by SARs Cov-2 appear to be involved in covid-19 thrombogenesis.

Covid-19 seems to attack the endothelial inside blood vessels. Raktdhara Kala mentioned in Ayurveda has great similarity with that of endothelial lining of blood vessels. Covid-19 a viral infection is associated with damaging the endothelium of the blood vessels.

So, keeping in mind the concept of Kala told by Ayurveda the treatment approach to this lifethreatening viral infection can be obtained. Further research is needed for curing covid-19 conditions. Immuno boosters Drugs in Ayurveda helps in preventing covid-19. But what about curing patient at cytokine storm? Ayurvedic research is needed.

Conclusion: -

Kala described in Ayurveda are special membrane in the body present between Dhatu -Aashaya which peforms the vital functions in the body.

'Dhatva - shyantar maryadah' it is clear that Raktadhara kala is membranous structure between Raktadhatu and Aashay.

Raktadhara kala is parmanu Swarup as said by Acharya Charaka. so, it can corelated with Endothelial linings present in Tunica intima and sinusoids of liver spleen. Endothelial cells are responsible for maintaining vasomotor tone, haemostasis, thrombosis, inflammatory process, platelet and leucocytes vessel wall interactions and controlling vascular permeability.

Spike like projections are recognized by receptor proteins on the host cells. corona virus infects lungs cells trough receptor for Enzyme ACE2 present in heart, kidneys, blood vessels.

Thus, endothelium is injured causing vascular damage. To protect from direct or indirect damage, host inniate defensive mechanism of blood clotting, vasoconstriction.

Thus, Raktadhara kala can be considered as one of the treatment sites for covid- 19.

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Unusual Branching of Left Superior Pulmonary Vein: A Case Report

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Abstract : -

Human dissection is indispensible for a sound knowledge in anatomy which can ensure safe as well as efficient clinical practice and the human dissection lab could be the ideal place to cultivate humanistic qualities among the future physicians in the 21st century. Dissection of human cadaver has a long tradition. It paved the way for modern anatomical knowledge and plays a crucial role in the education of medical students. Though fundamental anatomy has mostly been established, cadaveric studies still yield valuable findings.

On each side of the base of the heart, the superior pulmonary veins carry oxygenated blood from lungs to left atrium of heart. The variation in number and branching pattern of pulmonary veins is frequent and this knowledge is valuable for various procedures involving pulmonary veins. This variation in pulmonary veins ranges from variation in number to drainage pattern in left atrium. [1]

In approximately 48 years old Indian male cadaver during routine dissection, we reported a variant of pulmonary vein branching pattern where the left superior pulmonary vein has 3 openings while remaining 3 veins i.e. left inferior pulmonary vein, right superior pulmonary vein and right inferior pulmonary veins have their normal one opening. The anatomical and morphological variations of the left superior pulmonary veins are significant for diagnostic, surgical procedures and vascular radiology in head and neck region.

It is of clinical importance to know origin and course of pulmonary veins in detail and being aware of possible variation.

Keywords: Pulmonary veins, left atrium, variations, left superior pulmonary vein, radiological procedures.

1.Introduction :-

A cadaver or corpse is a dead human body that is

used by medical students, physicians and other scientists to study anatomy, identify disease sites, determine cause of death, and provide tissue to repair a defect in a living human being.

Human cadaveric dissection has been used as the core teaching tool in anatomy for centuries. [2] It is noteworthy that the innovative modes of learning anatomy such as the interactive multimedia resources have not replaced student's perception about the importance of cadaveric dissection.[3] For many centuries, physicians of ancient Greece gained considerable information about human body and health. [4]

For a cadaver to be viable and ideal for anatomical study and dissection the body must be refrigerated or the preservation process must begin within 24 hours of death. [4]

In anatomy, normality embraces a range of morphologies. It includes those are more common and others called variations which are less frequent but not considered abnormal. [5]

The primary pulmonary circulation comprising of pulmonary arterial tree, extensive capillary bed and

pulmonary venous tree, connected in series is a low pressure, high capacitance system which provides large surface area for gas exchange.

An understanding of variability of pulmonary vein remains most important in radiological procedures and cardiothoracic surgeries, where an incompatible knowledge of anatomy can lead to complications. The pulmonary veins drain oxygenated blood from both lungs to left atrium. The pulmonary veins course in the inter segmental septa and as such don't run with bronchi like pulmonary arteries do. The left superior pulmonary vein take an oblique infero medial course, whereas both right and left inferiorpulmonary veins runs horizontally before taking a more vertical course. They pass through lung hilum antero inferior to pulmonary arteries, forming a short intra pericardial segment, to drain into left atrium of heart. [6,7]

The ostia of inferior pulmonary veins are more posteromedial and left inferior Pulmonary vein being more superior. [8]

The knowledge of these variations is valuable in cardiothoracic surgeries and radiological procedures such as radiofrequency ablations in atrial fibrillations, cardiac valve replacement, pulmonary lobectomy and others [9, 10].

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2. Material and Method :-

During routine dissection of a 48 years old Indian male Cadaver in Dept. of Anatomy, CSMSS Ayurved Mahavidyalaya, Aurangabad, it was observed that the left superior pulmonary vein has unusual branches emerging from left atrium of heart, in addition to 3 openings present for right superior and inferior pulmonary veins and left inferior pulmonary vein.

3. Inclusion criteria :-

- a) All the limbs of the cadaver are intact.
- b) Death is natural.
- c) The age of cadaver is between 20 60 years.

4. Exclusion criteria :-

- a) Absence of one or more limbs.
- b) Death is due to poison or accident,
- c) Age of cadaver is less than 20 years or more than 60 years.

5. Case Report :-

During a routine dissection of thoracic and abdominal cavity, an atypical left superior pulmonary vein found, which has 3 branches in a 48 years old Indian male cadaver in the anatomy dissection hall at CSMSS Ayurved Mahavidyalaya, Aurangabad. After opening the thoracic cavity, the left superior pulmonary vein was seen having 3 branches. The remaining i.e. left inferior pulmonary vein, right superior and inferior pulmonary vein has normal one opening and one branch. No other congenital variations were found. The further course, branching and drainage pattern of these pulmonary veins were normal.

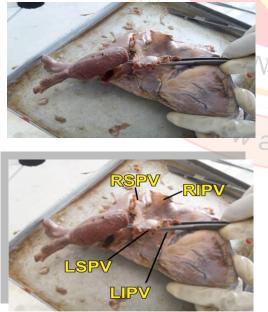


Fig. 1: Showing unusual branching of LSPV and normal branching of remaining 3 Pulmonary Veins. (LSPV-Left superior Pulmonary Vein, LIPV-Left Interior Pulmonary Vein, RSPV-Right Superior Pulmonary Vein, RIPV-Right Inferior Pulmonary Vein).

6. Discussion :-

Anatomical and morphological variations of pulmonary veins are of immense importance in cardiothoracic surgeries and radiological procedures. [7]. Researchers have documented that decreased use of dissection as teaching tool is one of the factor that can have a negative influence on anatomical knowledge of medical students. [18] Evidence suggests that learning anatomy by active exploration through cadaveric dissection actually contributes to improvement of anatomic knowledge. [19] Medical training essentially begins with cadaveric dissection and nearly all clinicians remember the details of their first interaction with the human cadaver. [20]

In our study, we found the unusual branching pattern of left superior pulmonary vein. Earlier it was considered that variations in number and course of pulmonary veins were rare and they are confined only few case reports. [8] Recently, however it has been found that variation in pulmonary venous anatomy were seen in 36% of patients. [9] and they were one of the etiologies for ectopic heart beats. [10] This greater than expected variability in pulmonary venous anatomy could substantially alter success rates of radiofrequency ablations, as ectopic foci could go untreated in variant veins. The successful treatment of atrial fibrillation by radiofrequency ablation of ectopic foci can be made possible only by having accurate knowledge of normal pulmonary venous anatomy and its measurement. [13] The knowledge of these variations is valuable in cardiothoracic surgeries and radiological procedures [15] such as radiofrequency ablations in atrial fibrillation, cardiac valve replacement, pulmonary lobectomy and others. [14]

7.Conclusion :-

Human cadaveric dissection has survived the test of time and till time the student-cadaver encounter remains paramount in medical education. The rise of ancient Greek medicine paved the way for the inception of human cadaveric dissection as a tool for teaching anatomy in 3rd century B.C.

Typically there are four pulmonary veins with superior and inferior pulmonary veins on either side draining into the left atrium. [6]. There may be anomalous drainage in the left atrium or systemic veins. On left side, there may be convergence of the left pulmonary veins into a short or long common trunk that drains into left atrium. Anatomic variants on right side are less common and include accessory veins such as accessory right middle or upper pulmonary veins draining independently into left atrium. Partial Anomalous Pulmonary Venous Return (PAPVR) into a systemic vein produces a left to right shunt. In left sided PAPVR, left upper lobe pulmonary

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veins form a vertical vein that joins the left brachiocephalic vein or coronary sinus. Anomalies in the branching pattern of pulmonary veins have been documented worldwide. We hope that our study has provided valuable data to clinicians and anatomists by enhancing their knowledge regarding the variation of the branching pattern of left superior pulmonary vein is important in cardiothoracic surgeries. The wide spectrum of variations in anatomical arrangement of human pulmonary veins and its branches offer valuable information to replace cardiac valve safely and performing pulmonary lobectomy. These anatomical and morphological variations in pulmonary vein are significant for diagnostic procedures and cardiothoracie surgeries.

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STUDY OF MEDODHATVAGNI MANDYA IN MEDOROG W.S.R TO OBESITY

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ABSTRACT

Healthy and unhealthy state of a human being depends on normal and abnormal functional state of *Tridosha*, considering the physiological importance of *Dosha* in maintenance of homeostasis of the body *Tridosha* have been called as root (*Dosha Dhatu Mala Moolam hi Shariram*) of the body. All the functions of the body could be explained in terms of *Dosha*, *Dhatu* and *Mala*. In ayurveda, sthaulya has been decribed in all the literatures. Acharaya charaka has describe sthaulya purusha among one of the ashta nindita purusha.sthaulya is caused due to medovridhi which includes abnormal and excessive accumulation of medodhatu in the body.person of every age and sex is suffering by this widely spreaded apidemic i.e obecity. In Ayurveda, main cause is dhatvagnimandya. As per involvement of dosha-dushya the disease can be considered among santarpanajanyavikara.the major pahologycal factore behind the disease basically include kaphavridhi,jathargnidushti,medodhatvagnimandhya and avarana of vata which all finally leads to amarupa medovridhi.

KEYWORDS: Medodhatu, Obesity, Sthaulyata, medodhatvagni.

INTRODUCTION

Hence, Vihara and Ahara Vidhi can be included under the heading of lifestyle in Ayurveda. Vihara consists of explained under conducts the heading regimen), Ritucharya (seasonal of Dinacharya (daily regimen) and Sadvritta (behavioral regimen) and Ahara Vidhi (dietetic rules) consists of the conducts given under heading of Ahara Vidhi Vidhana (codes the of dietetics), Bhojanottara Vidhi Vidhana (conducts after meal) etc., which are described in detail in Avurveda. Wrong dietary habits such as Adhyashana (eating after meal), Vishamashana (diet on irregular time and quantity), and wrong behavioral pattern such as *Vegadharana* (suppression of urges) leads to vitiation of Doshas independently or together causing Agnimandya (indigestion). In Ayurveda, it is believed that Agnimandya is the root cause for all the diseases such as Prameha and Sthaulya. In modern science also, it has been proved that there exists gutbrain-endocrine axis which involves ghrelin-leptin hormones, insulin and orexins. Disturbance in this axis leads to diseases such as obesity and diabetes mellitus which are among the top ten lifestyle disorders. The causes for these diseases are improper diet pattern, disturbed sleep pattern etc.

Type of Agni

- A) charak has describe agni in 13 types
- 1) Jataragni^[1]
- 2) Bhutagni^[5]
- 3) Dhatvagni^[7]

B) according to shushruta agni is divided into five type

- 1) Pachakagni
- 2) Ranjakagni
- 3) alochakagni
- 4) Sadhakagni
- 5) Bhrajakagni

C) Vaghahat described into different 18 type

- 1) Bhutagi^[5]
- 2) Dhatvagni^[7]
- 3) Malagn $\bar{i}^{[3]}$
- 4) Dhoshagni^[3]
- D) Sharagandhar has describe it into 5 type
- 1) Pachak
- 2) Bhrajak
- 3) Ranjak
- 4) Alochak
- 5) Sadhak

E) bhavmishra ha describe as vaghabhat and charak

1) Jatharagni

If jatharagni is proper, balance , healthy the other form of agni is control in equilibrium. Agni meance fire in belly which govern the premilinary process of digestion before the food converted into a form in which it could be absorb ,utilise in varioue form of body function in the form of nutrition and energy .Jataragni divides food into sara (essence food) and kitta (waste product) in human body.

It again divied into foure type

1) vishmagni: Here digestive fire is distributed by vata.cholera, dysentery, enlarged Sspleen, abdominal tumour are outcome of vishmagni.

2) Tikshagni: Here digestive fire is divied by pitta, in this case immunity against disease is good. Urin disease, yellow skin, tuberculosis.

3)Mandagni: Here digestive fire is distributed by kapha. Cough ,bhronchial asthma

4)Samagi: Normal digestive fire with stronge appetite

2) Bhutagni: present in basic element.

3) Dhatvagni: seven element tissue of body contain their own agnito metabolize nutrients supply to them through channel of circulation.

- 1) Rasagni in rasa dhatu
- 2) Raktagni in rakta dhatu
- 3) Mansagni in mans dhatu
- 4) Medagi in meda dhatu
- 5) asthyagni in asthi dhatu
- 6) majjagni in majja dhatu
- 7) shuktragni in shukra dhatu

symptoms of Jatharagni

- 1) Ajeerna (indigestion)
- 2) Atilalasrava (hyper salivation),
- 3) Aruchi (dislike of food),
- 4) Adhmana (heaviness of abdomen),
- 5) Vibandha (constipation),
- 6) Chardi (vomiting)

Agni in nature: वायोःअग्नि:। (तैत्त् रीय उपनिषद्)

Medodhatvagnimandya

Agni is responsible for all metabolic activities of the body. It is solely responsible for any increase or decrease of Doşa,Dhātu or Mala. The vitiation of Agni has serious impact on health at various levels depending on type of Agni involved. When Agni is decreased, it will lead to various metabolic disorders at various levels and produces "Āma" i.e., Agni fails to convert the Vijātīya Dravyas into Sajātīya ones and the end products cannot be assimilated by the Dhātus. Such products will be dangerous to body and can cause signs and symptoms according to their presence at various physiological levels. If Agnimāndya is present at the level of

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Jatharāgni only, then Āma is usually restricted to Kostha. There will be no production of Āhāra Rasa & result will be Dhātu Kśaya. If Agnimāndya is present at the level of Bhūtāgni, then Āma is restricted to Āhāra Rasa and this Āhāra Rasa which isimproperly formed cannot be assimilated by Dhātus and results in Dhātukśaya. If Agni Agni-māndya is present at the level of Dhātvāgni, then the particular Dhātus cannot assimilate nutrients present in the circulating Āhāra Rasa or circulating Poşaka Dhātu. So, such Posaka Dhātus will be accumulated in Āhāra Rasa in abnormal quantities and they may further get accumulated at abnormal sites. This sort of process can be called as Leenatwa of Āma in Dhātus. Such Leenatwa can cause a number of disorders but it should always be kept in mind that once Jatharagni is impaired. the Bhūtāgni and Dhātvāgni would also be having impairment. Hence during treatment of any kind of Agnimāndya or Āma conditions one should think about all the three levels. Such a way if Medo Dhātvāgni is impaired and the homologues nutrients present in Poşaka Medo Dhātu will be in excess in circulation and this can be referred to the conditions such as hyperlipidaemia. This is because the Poşaka Medo Dhātu cannot be assimilated into Sthāyi Medo Dhātu by Medodhātvāgni. The cause for excess Posaka Medo Dhātu in circulation is not only Medodhātvāgnimāndya, but there may be decrease in other Agni also. Any cause, which can lead to Kapha Vriddhi, Pitta Kśaya or Vāta Prakopa, can lead to this condition. In Medoroga, due to the excessive supply of Snigdha, Madhura, Guru etc. types of āhāra, the āhārarasa contains excessive nutrition homologous to Medas. Due to persistent overload, the Medoagni is diminished leading to excessive accumulation of Medas in Ama form and thus causing Medoroga

Obesity

Dfination

Obesity is a term used to describe excess body fat, it is define in term of apersons weight and height, or their body mass index(BMI). A person with a BMI over 30 is classified as being obese. Obesity makes your body less sensitive to insulins action.

obesity in ayurveda is correlated with sthaulya

Definition of *Sthaulya*

A person having excessive fat lifeSphika (Hip), Udara (Abdomen) and Stana (Chest) due to excess deposition of Meda (Fat) along with Mamsadhatu and also having unequal an abnormal distribution of Meda with reduced enthusiasm towards life is called Atisthula. Obesity is an increase in body weight beyond the limitation of skeletal and physical requirements as the result of excessive accumulation of body fat.

Type of obesity

Two type are describe on basis of etiology

1)Primary: Vast majority of cases are of the primary variety, it will be presumed that the obesity is of primary variety.

2)Secondary: where obesity is due to a known disorder(Cushing's syndrome, hypothalamic disorder.)

Cause of Obesity

1)Genetic- heredity: Obesity ,now it is established, is strongly dependent on heredity.some persons are, due to heredity factors, prone to become obese.

2)Hypothalamic se point: Hypothalamus has a set point regarding amount of body fat.if the body fat is lowered, the person develops ravenous appetite-he eats more until the set point is achieved.Conversely,if the body fat amount exceeds the set point the appetite decreases till the body fat amount is restored. It may be noted that this set point may alter in ones life time.Thus,in a middle aged person,the set point may be elevated and the person gains weight. A person may undertake semi starvation,losing weight but soon the appetite becomes so stronge weight gain is double or it is comparatively easy to reduse weight temporarily.it may be determined by genetic factors.

3)Psychology: some persons eat whenever the food is good,some of persons eat until they feel little discomfort.ssss

Pathophygiology of obesity

Leptin is a polypeptide hormone hormone, discovered recently and currently under intense research. Obesity, ischemic heart disease and even cancer may be related to leptin. Neuropeptide Y in hypothalamus increase appetite and food intake.

Leptin is produced by adiposity of te body rises,more leptin is produced \longrightarrow Leptin carried via blood \rightarrow reaches hypothalamus \longrightarrow leptin binds with its receptors in hypothalamus \longrightarrow ultimate result is decreased food intake. Probably leptin causes suppression of neuropeptide Y synthesis. It appears human obesity is due to lack of leptin receptors. leptin is correlated with obesity, so obesity get increased.

Sign and symptom

- 1. Ayushohrasa (Diminution of life span)
- 2. Javoparodha (Lack of enthusiasm)
- 3. Kriccha Vyavaya (Difficulty in sexual act)
- 4. Daurbalya (General debility)
- 5. Daurgandhya (Foul smelling of body)
- 6. Swedabadha (Distressful sweating)
- 7. Kshudhatimatra (Excessive hunger)
- 8. Pipasatiyoya (Excessive thirst)

Classification

Vagbhata have been mentioned three types of *Sthaulya* i.e. *Adhika*, *Madhyama* and *Hina*.

(1) *Hina Sthaulya* : (B.M.I. 25-30 kg/m2 – Over Weight)-Mild degree of overweight, without any complication or secondary disease, with less than four undesirable symptoms and with duration of less than 1 year – can be considered as *Hina Sthaulya*.

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(2) *Madhyam Sthaulya* : (B.M.I. 30-40 kg./m2 - Obese)-Moderate degree, with least complications without secondary disease, with less than 8 undesirable symptoms and duration of 1 to 5 years can be considered as *Madhyam Sthaulya*.

(3) Adhika Sthaulya : (B.M.I. > 40 kg./m2 – Very Obese)-Excessive degree, with complication and secondary disease with all 8 undesirable symptoms and duration of more than 5 years can be considered as Adhika Sthaulya.

Samprapti

Nidansevan is first and most important event in Samprapti, Nidan as describe ultimately all of them to jataragni dushti and kaphavridhi. In which jatharagni is impaire and bhutagni,dhatwagni having Impairement which lead to Ama Annarasa and subsequent Ama rasa Dhatu.Ama rasa dhatu leads to medodhatvagnimandya leads to Amarupa Medovridhi which leads to sthaulya and medoroga. On other aspect Kapha vridhi and this ama meda dhatu formation leads to avarana of Vataand sroto avarodha which ultimately lead to vata dosha vitiation. Due to sanga in medovaha srotsa the nutrients can not be carried by Vyana vayu to their respective dhatus.the process of circulation ,digestion and proper distribution of dhatus are controlled by samana and Vyana vayu. In this disease vata has been mention in the state of avaritya Which provocates the agni ultimately increasing the demand for the food (abhyavaharana shakti). But in case of anya nidana like beejadosha and avarana direct medovaha Srotodushti occurs which results in the vriddhi of ama asthavi medo dhatu (dyslipidemia) or ama sthayi medo dhatu (excessive adipose tissue) or Both.the increase in ama sthayi medo dhatu would lead to condition like Ama asthayi medo dhatu vridhi (dyslipidemia) or prameha (dibetes Mellitus). the ama sthyi medo dhatu if untrated,on further progression Causes maragavarana to vata leading to the shoshana and kathinya of the Sthanika medo dhatu.this results in a condition termed as dhamani Pratichaya or atherosclerosis causes lesions in all the three maha marma Hridaya shira and basti which is evident as coronary heart disease, Cerebrovascular diseses and renal insufficiency.

SAMPRAPTI GHATAK

- 1) Dosha: Kapha, vata
- 2) Dushya: Rasa, Meda Dhatu
- 3) Agni: Jatharagni Rasa and Meda Dhatvagni
- 4) Srotas: Rasavaha Srotas, Medovaha Srotas
- 5) Srotodushti: Sanga
- 6) Adhishthana: Sarva sharir
- 7) Udbhavasthana: Amashaya
- 8) Roga Marga: Bahya
- 9) Ama: Jatharagni and Dhatvagni Mandyajanita Ama

DISCUSSION

Concept of abnormal & unequal distribution or collection of Medodhātu in body can be inferred as Medoroga.

Charaka given causes of Medoroga as, Medas potentiating diet, Harshnityatwat, Achintanat, excessive indulgence with Brimhana Basti, Taila Abhyanga, Snigdha Udvartana and Beejadosh. Whereas Sushruta & Vagbhata stressed mainly on endogenous causes including deranged functions of Doşas, Dhātus, Mala, Strotasa etc.

Āmadoşa is the cause behind Medoroga specially mentioned by Vagbhata. According to Samānaya Viśesa Sidhdhanta & Ashraya ashrayee Sambandha between Dosa-Dushyas, there is direct relation between Kapha Dosa & Medodhātu i.e. increased consequences of Kapha directly leads to increment in Medas proportion. All Acharyas have given nearly same pathogenesis in which Kapha & Medodhātu play vital role leading to Medoroga. Hence, these two are main Dosa-Dushya Ghataka in pathogenesis. Accumulation of Kapha & Meda leads to Srotovarodha causing trapping of Samānaa Vāyu in Kostha leading to Āvaraņa to Samānaa Vāyu, it leads to Jatharāgni Sandhūksan & increased Jatharāgni leads to rapid digestion of ingested food & leaves the person craving for food. This vicious cycle continues resulting in Meda Atiupachaya. Sushruta has mentioned Medoroga as Rasanimittaja Vikāraa i.e. Dushya dominant disorder. According to Ayurveda, when food is ingested, it is first of all acted by Jatharagni to form Āhāra Rasa, thus Āhāra Rasa acts as Substrate for Dhātuposhana by respective Dhātvāgni. Dhātvāgnimandhya develops when the substrate for Medodhātvāgni i.e. Meda Poşaka Rasa is present in excess form than the digestive power of Medodhātvāgni.

Sushruta says that the Atisnehayukta Anna Rasa leads to excess formation of Meda dhātu. The three Acharyas have considered Vrikka as one of the moola of Medovaha Srotas but Vapavahana, Kati and Mamsa are mentioned as second moola separately. Sushruta and Vagbhat have given more anatomical preference then the physiological point of view by considering Kati and Mamsa as "Moola" of the Medovaha Srotas. While Charaka"s consideration was a physiological one.

CONCLUSION

The Medo Dhatu plays an important role in two important functional aspects i.e. Dharana & Poshana of the body. Jatharagni is impaired, the Bhutagni and Dhatwagni especially Medo Dhatwagni is impaired resulting of the homologues nutrients present in Poshaka Medo Dhatu will be in excess in circulation and ultimately develops Medoroga. Lastly, Agni plays a very important role in growth, development & maintenance of the body. So the Agni should be maintained at equilibrium by changing the life style.

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THE PHYSIOLOGICAL AND PATHOLOGICAL CONCEPT OF AGNI

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ABSTRACT

Life(ayu), Varna, Bala, Utasaha (Enthusiasm), anabolism, Prabha, Oja, Drushti, everything depends on Agni. Agni is invariable agent in Paka(digestion), ingested food is to be digested, absorbed for maintained of life (Ayu). Agni is present in everywhere is body for the process of metabolism and gives energy to body, i.e., Jatharagni, Dhatvagni etc. Jatharagni is one of most important Agni also known as Kayagni, vitiation of Agni called Mandagni and this is main reason for Vyadhi. Therefore, for treatment of Vyadhi treatment of Agni is important. If Agni of person is vitiated, the whole metabolism in his body disturbed, resulting in ill health and disease. Hence, Agni is said to be the base (moola) of life.

KEYWORDS: Agni, Bhutagni, Dhatvagni, Jatharagni, Pitta.

INTRODUCTION

Agni, Ayurveda has described main component of the body, which is essential for the digestion and metabolism of the food. Ingested food must be digested for healthy life and maintaince of life, this is performed by the Agni.

Ayurveda described Agni as Dehagni because Agni converts food into form of energy, which is responsible for the all functions of the body, nourishment, Oja, Teja, health.^[1]

Aachrya Charak mentioned that after stoppage of function of Agni the individual dies, when Agni is absolute Sama state person is healthy, and Charakacharya also mentioned destination of swasthya is Sama state of Agni.^[2] when Agni is vitiated by Hetu Sewana the Sama state of Agni disturbed and individual get suffer from disease (Vyadhi).

Aachraya Charak described Agni as kaya, Kaya Chikitsa is a Chikitsa of Agni i.e., Agni is the base (Moola) of life.^[3]

The purpose of this article is to enlighten the function, importance, and physiological as well as Pathological aspect of Agni.

Review of Literature

The term Agni which is derived from Agni = A+G+Ni. A denotes root "I" mean "to go": "G" denotes the root "Anja", meaning "to glitter" or root

"Daha" meaning "to burn ". "NI" meaning "to carry". This etymology is given by Yasaka.^[4]

In Shabdakalpadrum 61 synonyms of Agnis are described, these synonyms given by its nature and functions of Agni^[5] E.g., Tanoopaka, Sarvapaka, Damunasa, Rudra etc.

According to Sushrutacharya Agni described as Pitta. Pitta is derived from "Tapa" which mean combustion or digestion.^[6] When describing about Agni & Pitta different view have been suggested by Aachrayas.

Concept of Agni as a Pitta

According to Sushrutacharya there is no any Agni without Pitta, means agni is one of the guna (quality) of Pitta.^[7] Digestion and metabolism are the main function of this Pitta or Agni.

According to Aachrya Charak Agni present in the Pitta gives good or bad results when its normal or vitiated state.^[8]

Aachrya Hemadri described as Agni has five division located in Pawakshaya and Amashaya. It composed of panchmahabutas, have dominance of Tejas Mahabhuta.^[9]

Types of Agni

There are 13 types of Agni described by Aachryas;

1. Aacharya Charak^[10]: 13

Jatahragni -1, Bhutagni- 5, Dhavatgni-7

2. Aacharya Sushrut^[11]: 5 Pachakagni, Ranjakagni, Alochakagni, Sadhakagni, Bhrajakagni.

1. Jatahragni- this agni is present in Aamashaya (Stomach & Duodenum) digestion of ingested food is the main function of Jatharagni. Kayagni is synoname for Jatharagni, if Kayagni vitiated person get diseased hence mandagni is main reason for origin of Vyadhi, it is responsible for the duration of life, health, Ojas, give strength to all Dhavtagni, Bhutagni. In opinion of Dhanvantri Pittadharakala which is situated in the entrance of Pakwashaya and acting as pathway of food. When agni undergoes vitiation, Grahani also vitiated and produce Vyadhi.

Jatharagni is classified into four categories

Jatharagni is most important because each and every nutrient which is ingested first comes to jatharagni. Separation, digestion of ingested food is another function of Jatharagni.^[12]

Jatharagni also have three types Samagni, Tikshagni, Mandagni, vishamagni.

Samagni: Is a stable state of Agni. The Samagni digest food properly at the proper time. This Agni increases quality of Dhatus, Samagni is mentioned in the definition of Swastha Purush.^[12]

Tikshanagni: Tiksha means very fast. This Agni digest food very quickly, Acharya Shushrut states that when the power of digestion increased normal to above normal, food digest quickly and produce desire for food.^[13]

Mandagni: Mandagni means slow, the agni which digest food very slowly the power of digestion is Slow.

2. Bhutagni: Bhutagni is one present in basic element (Bhuta). There are 5 Agni of each five elements, Pruthvi(earth), Tejas (Agni), Apya(water), Aakash, Vayavya(Vayu). Each and every cell of body consist of these five basic elements or MAhabutas. Also, evey cell consist of these five Bhutagni also. All food we eat which is also made of these panch mahabhutas with their respective Agni or bioenergy. Aachrya Charak mentioned that Panch Bhutagni digest their own similar elements present the food. After the process of digestion by Bhutagni digested material containing the element and qualities similar to each Bhutagni acts after process of Jatharagni, the digestion by Bhutagni is called as "sukshma Paka".

3. Dhatvagni: there are seven Dhatus present in the body contain their own Agni for metabolism of nutrients. Agni metabolized the materials and supply to specific Dhatus.

Thses Agni namely

- a) Rasagni
- b) Raktagni
- c) Mansagni
- d) Medagni
- e) Asthiagni
- f) Majjagni
- g) Shukragni

The action of these Agni is selective. Aacharya Chaerak mentioned that seven Dhatus contains their own Agni, and their own Agni they digest and transform nutrients and supplied to the specific Dhatus this is also called as "Sukshama Paka".^[15]

Importance of Agni

Bala, *Varna* (colour), Swasthya(health), Utasah (entusaiam), Ojas, Upchaya (development of body), Prabha, Tejas(valour), Ayu(life) all depends on Agni and its Sama State.^[16] As long Agni isin Sama state person can have healthy long life, loss of Agni leads to loss of life. To maintain Swasthya, digestion and metabolism is the main function if Agni.

Physiological and Pathological Aspect of Agni

- a) **Samagni:** this is physiological state of Agni, not associated with Dosha so called as Samagni. The Samagni digest food properly in proper time. This increase health of individuals, quality of Dhatus.^[12]
- b) Vishamagni: Vishamagni is state in which improper digestion of food takes palce. Sometime it performs normal metabolism, sometime abnormal metabolism shows following symptoms- Flatulence, abdominal pain, upward movement of Vata in sode koshta, atisar, intestinal gurgling, straining during defecation. When Agni is affected by Vatadosha created Vatavyadhi.
- c) Tikshangi: Pitta Dosha dominance present in Tikshagni. Tiksha means Fast/quick. Whenpower of digestion digestion increased normal to above normal food digest very quicklyand produces hunger or desire for hunger this condition known as "Bhasmak Roga" in Ayurveda.^[13] Pitta dominance Prakruti Purush have lakshans of Tikshangi.
- d) Mandagni: Mand means slow, the digestive power of Mandagni is very low. Kapha Dosha dominance is present. Dhanvantri says this Agni digests the least amount of foodin great amount of time and produce symptoms like- heaviness in abdomen and head, cough, dyspnea, vomiting, excessive salivation. Mandagni gives rise to Kaphaj vikara.

CONCLUSION

After detailed discussion of Agni, it can be concluded that, Agni is moola of life. Nourishment of body cells is the important function of Agni takes place through the digestion (Sthulpaka and Sukshama Paka). Sthulpachan is digestion of food in stomach by Jatharagni and Sukshmapachan is digestion of nutrients through Bhutagni as well as Dhatugani. Agni is main reason for healthy ayu. Sama state maintain Swathya. And vitiated state gives rise to Vyadhi, hence in Kayachikitsa treatment of Agni is also important, for that Agni Parikshan is main tool to Diagnose cause of Vyadhi and correct treatment of Vyadhi.

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IMPORTANCE OF SATTVA AND SATTVAVJAYA CHIKITSA IN COVID-19

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ABSTRACT

Sattva is one of the three attributes of (Aayu) human existence. Sharir, Indriya, Attma these are other. Swastha (health) is depend upon the proper functioning of these attributes. Sattva is entity, which establishes contact between Indriyas and their Aarthas (object). Sattva Bala is provides adequate status of person which is part of the essential treatment. Sattva is described as immunity in Ayurveda. Psychic as well as physical health is important in treatment of disease, Psychic health is depending upon Sattva, for improvement of Sattva in patient Sattvajaya Chikitsa is described. Hence there is a need to assemble Available reference of Sattva and Sattvavajaya Chikitsa to analyse the clinical use of Sattva, Sattva Parikshan and Sattvavjaya Chikitsa. This is the purpose of this paper.

KEYWORDS: Sattva, Sattva Parikshan and Sattvavjaya Chikitsa.

INTRODUCTION

The word "Sattva" is derived from term "Sat" and "Tva", meaning of the word is Sattvo Bhava.^[1] Sat't refers to existence, reality, truth; Sattva is being true existence, spiritual essence and stable condition of mind and character.^[2] The stable condition of mind and character means person who having dominance of Sattva Guna are mentally stable and does not get frusted, with happiness, anger, fear etc.^[3]

Sattva is also described as Gunas. The Gunas are of 2 types Sharir Guna and Mans Gunas: Sattva, Raja, and Tama are Manas Gunas.

The Sattva Guna means Manas Guna.^[4] Chitta, Chetas, Hrida are the synonyms of Manas Gunas.^[5] Manas originates from mentioned Sattivik, Rajsik, Tamsik Ahankaras.^[6]According to the Sankhya Siddhanta, Shrushti Udpatti done with Sattvika, Rajsik, Tamsik Prakruti that's why they are more important or they are responsible for the Panchtanmatra Uadpatti.^[7]

Manas are the apparatus through which Indriyas percivce knowledge.^[8] Indriyas are capable of perceiving knowledge of their respective objects through the Manas only when they are motivated by the Manas.^[9] Hridya is place of Manas.^[9] Manas has three attributes i.e. Sattva, Raja, Tama.^[10]

Vyadhi are of two types; Sharir Vyadhi, Manas Vyadhi. Sharir Vyadhi occurs at Sharir level and Manas Vyadhi at Manas.^[11] Manas Vyadhi (Mental disorders) occurs when the Sattva Bhava is depleted.^[12] While at the same time Rajas and Tamas Bhava are increased, So Sattva which is stable condition of mind, steadiness of the sense got lessen by the person and develop the Vyadhi (disease). Whenever there are Sharir Vyadhi, Manas Bhawas get vitiated and whenever there are Manas Vyadhi, Sharir Bhawas get vitiated.

Sattva is positive thinking, goodness, happiness of mind, which is necessary for prognosis of Vyadhi. According to Ayurveda Dashvidha Pariksha^[13] for examination of patient Bala are needed, and Sattva Pariksha is one of them, Hence It is very necessary to examine patients Sattva to access his prognosis. Status of Sattva is associated with person's surroundings i.e. Sattva defers person to person, hence Vyadhi Sadhyaasadhyatva depends upon the Sattva of individual. Repeated contact of Rajasik things built Rajasik mind, similarly the Tamasik things built Tamasik mind and Sattvik things increase Sattvik mind which is very useful in the treatment of Vyadhi.

Sattvik food, Sattvik environment, types of activities like yoga, meditation built up Sattva Guna in individuals and that help in Sadhyata of Vyadhi or to cure disease.

Davavyapasraya, Yuktivyapasraya and Sattvavajaya Chikitsa are the three ways described in the Ayurveda for the treatment of diseases. Sattvavajaya means to overcome or control the mind, or method of restraining mind from their objects (Artha)^[14] which helps in the improvement of mental status or Sattva of patient.

Covid-19 pandemic has already unleashed panic situation for all peoples, hypervigilance can arise because of fear and anxiety in severe case of covid-19, result in post-traumatic stress disorder or depression. Fear of unknow, in this case, the spread of disease impact on people's mental health, individuals, families, and communities experience feelings of hopelessness, despair, grief, bereavement and profound loss of purpose because of the covid-19.^[15]

So, aim of this article is to put light upon Sattvavajaya Chikitsa in covid-19 protocol in all stages so as to enhance mental, emotional health in covid-19 patient with physical health.

Review of Literature

Acharya charak has described those qualities of good students with dominance of Sattva. This help into improve concentration of mind and body which leads to good physical and mental health. A student with good physical and mental health, spiritual qualities of Sattva is blessed with fearlessness for aberration and strength, which is valuable, asserts of human life. Sattva dominant students can stick to follow the rules of Brahmcaharya and acquire higher moral and social virtue. Most of our successful focuses are Sattvika.^[16]

Acharya Sushruta described the Sattvawana is quality of patient, whose disease is easily cured (Sukhsadhya). Sattvawana patients have self-control on their sense which is useful to control pathogenic factor. These patients are aware of disease, they follow rules of Chikitsa and hence Sattvawana Purushas Vhyadhi get cured easily.^[17]

Acharya Vagbhatta described that are Chanda, Bheeru, Krodhi are not treatable because these are the qualities of Avra Sattva. Treatments like Aagnikarma, Ksharkarma, are contraindicated in Bala, Krodhi, Bherru, Stri, and Vrudhha^[18] as they are of unstable mind, incapable to bear pain. If such individuals are treated with these therapies adequate effect of this therapies will not observed.

In Yogdarshan Sattva is described by synonym Chitta. Yogdarshan defined methods to control mind by Ashtang yog, Pratyahara is fifth step of Ashtang yog which is link between body and mind. It works on mind, detache it forms sense organs. Yoga help to control mind by improving self-awareness, control by reducing stress, anxiety, depression and improves self-esteem.^[19]

Sattva of an individual can be determining by observing their behavior, nature, attitude and their involvement in activities. All Acharyas described that importance of Sattva Parikshan as well as effect of Sattva in treatment of diseases. There are three attributes of nature are described in Shreemad Bhagwad Geeta i.e. Sattva, Rajas, Tamas and they are responsible for bondge of birth and death. These attributes are varying from person to person. Sattva guna gives happiness, stability to mind responsible for knowledge^[20] and health means immunity power of an individual.

Types of Sattva

Pravara Sattva
 Madhyam Sattva
 Avara Sattva

1) Pravara Sattva

The person of Pravar Sattva comprises quality of Sattva Saar which is having following qualities, Smriti Manto (good memory), Bhakti Manto, Krutadnya Pradhan, Shauchyo, Mahotsaha (entusiastic), Daksha(courage), Dhira(patience), Samarvikrantyo (brave), Tyaktavishada, Suvysvsthit Gathit, Gambhira, Buddhiman(clever), Kalyanaabhinivesha.

2) Madhyam Sattva

A person with Maddhyam Sattva is taken appreciation by other to complete their work. They are motivated by other but they can tolerate pain, can fight any situation.

3) Avara Sattva

A person with Avara Sattva is fear, greef ego, they are panic by small things, and whenever they listen fearful situation, they get panic, depressed, sadness, pallor or death. In Avara Sattva patient shows Tikshna Lakshanas of any Vyadhi even disease condition not that sever, hence in covid -19 patients Sattva Parikshan very useful to treat or its need to increases Sattva of patient for treat covid-19.

Covid -19

The newly identified novel coronavirus, covid -19, was first reported in 2019. which is zoonotic infections thought to have origin from bats & snake. this virus has rapidly spread across the globe leading to many infected people and many deaths.^[15]

Covid-19 is contagious disease caused by severe acute respiratory syndrome corona virus 2 (SARSCOV2). Covid 19 can affect the upper respiratory tract as well as lower respiratory tract. Spreads mainly when an infected person is in close contact with healthy person, Spread through small droplets, aerosols. Common symptoms of covid 19 are fever, dry cough, tiredness, aches & pain, headache, sore throat, diarrhea, conjunctivitis.

Covid-19 affects people in different ways. Most infected people will develop mild to moderate illness. This depends on immunity response of patient to disease.^[21]

The management of covid-19 is symptomatic and supportive.

Importance of Sattvavjaya Chikitsa in treatment of covid-19

Sattva Parikshan is important for access Sadhyaasahyavta of Vyadhi, Sattva Parikshan is described in Ayurveda literature by various Acharyas. Sattva Parikshan is described in Dashvidh Pariksha which is Aatur bala Pariksha means patients Ability to outcome from disease. Therefore, Sattva is most important during this scenario of Covid -19 for help in treatment of covid patients.

Depending upon Sattva, a person suffering from any disease can be divided in two groups; one suffering from severe disease but present with mild disease and another suffering from mild disease presents with severe illness this is due to status of Sattva of that individual.^[22] Hence Sattva Parikshan is important modality in the treatment of covid-19. Ignoring Sattva of patient lead a physician to bad therapeutic decision, this leads to inadequate management of disease which further depends upon prognosis of patient from disease (covid-19).

There are Trividha Chikitsa describe in Ayurveda which has broad aspect of treatment, out of that Sattvavajava Chikitsa is important for treatment of covid -19. Sattvavajaya means to overcome or control the mind, or method of restraining mind from their objects (Artha).^[23] Having control over Manas such as withdraw it from harmful objects is the main object of Sattvavajaya Chakrapani Chikitsa. Aacharya illustrates that Sattvavjaya can be include in both Davavyapasraya as well as Yuktivyapasraya Chikitsa. It will diminish the Rajas and Tamas and increases the Sattva guna, Dhairva, Smriti, indirectly immunity of the person, which is very necessary for the treatment of covid-19. Aacharva Charak has been described Pravara Sattva Purusha have stable mental as well as Physical health, that mean Pravara Sattva Purusha has good immunity power (Vyadhikshamtwa). Immunity is very important factor in treatment of covid-19. Indirectly immunity means Sattva of patient that's why Sattva Parikshan is very useful in this covid-19 scenario.

DISCUSSION

Sattva determines confidence, behavior, attitude, enthusiasm of an individual, Pravara Sattva individuals are mostly successful, and they are mentally satble. Sattvik person are helpful, considerate, cooperatives. The mind of Sattvik person is qualified according to his repeated action. Body follows mind so if the mental facilities are pure then one gets divine body, hence the good mental health is important in treatment of covid-19.

The superiority of Sattva is responsible for the perfection of body as well as mind because the physique is merely an out-picturing of the status of Sattva.^[24]

CONCLUSION

Sattva (manas) plays important role in treatment of covid-19 by maintaining of the health of an individual and regulates the body functions by Sattvavjaya Chikitsa.

Sattva is immunity of that individual and good immunity is very essential for treatment of any disease as well as covid-19.

Yoga is method that helps as individual to attain mental and physical health or immunity power. it is mean to be by increasing the dominance of Sattva individual can be free from covid-19. Sattvik person have a clear mind in which truth is reflected without distoration.

The superiority of Sattva is essential to be mental and Physical health.

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