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A Conceptual Study on the Role of Amalaki Avleha in Pandu roga

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Abstract: In the present era, human beings are subjected to enormous amount of stress and strain that cause a deleterious effect on the quality of life. Environmental factors and poor quality of nutrition compounds the stress and strain. Iron deficiency anaemia is one of the wide spread diseases in India especially among the poor people and women. It is a systemic disease which involves multiple systems rather than a mere haematological condition associated with Anaemia. Ayurveda can provide better management not only in substituting and replenishing deficient nutrients but also can play a vital role in correcting metabolism. Pandu Roga has similarity with Anaemia of modern system in aspects of etiology and sign, symptoms. As Anemia is a very common prevalent disease in the society and the side effect of oral allopathic iron preparations like constipation, gastric irritation etc. are very common, therefore there is need of better alternative like Amalaki avleha. It has contents Amalaki, Pippali, Yashtimadhu, Draksha, Shunthi, Vanshlochan, Sharkara, Madhu, these drugs work at the level of Dosha, Dushya, Agni and Srotas.

Keywords: Anemia, Amalaki avleha, Aam, Pandu roga, Dhatu, Dosha, Agni, Srotas

1. Introduction

Ayurveda is an ancient system of healthcare which uniquely perceives an intimate relation between life style of an individual to his/her health. The pledged purpose of Ayurveda is to ensure a healthier, longer and happier life to humanity. The time is ripe enough to seriously take up productive researches in disorders like Pandu roga where Ayurveda can offer an effective treatment. Pandu is a Varnopalakshita Vyadhi, where in paleness pathognomic. Pandu is a Pitta Pradhan Vyadhi and since Pitta is responsible for normal colour of body, so if it gets vitiated, impairment of colour and complexion occurs. In Ayurveda, Pandu Roga is considered as an individual disease with its ownspecific Nidana, Purvaroopa, Rupa, Samprapti and Chikitsa. Globally, Anemia affects 1.62 billion people (95% CI: 1.50-1.74 billion) which correspond to 24.8% of the population (95% CI: 22.9-26.7%).1 Anaemia can be caused by a large number of causes, including nutritional deficiencies, acute or slow loss of blood due to trauma or disease, destruction of red blood cells due to various metabolic and immunological abnormalities or toxins, disease of bone marrow, general systemic disease like infections, various kidney disease. Iron deficiency anaemia occurs when iron losses or physiological requirements exceed absorption ² It is a systemic disease which involves multiple systems rather than a mere haematological condition associated with Anaemia. Pandu Roga has similarity with Anaemia of modern system in aspects of etiology and sign, symptoms.³ Although, there are many combinations of oral iron supplementation, therapeutic failures are common with oral iron replacement, shortcoming being gastrointestinal tract's limited capacity for iron absorption. In conventional system of medicine, there is effective treatment of Anaemia with considerable result but that is only for acute deficiency Anaemias. No significant therapy is available for chronic Anaemias which occur due to metabolic defect. Ayurveda can provide better management not only in substituting and replenishing deficient nutrients but also can play a vital role in correcting metabolism. Amalaki Avleha is non-iron formulation indicated in Panduroga Adhikara in Bhaishajya Ratnavali. (12/116-119).

2. Material and Methods

For this article literature review is done from Charak Samhita, Sushruta Samhita, Ashtang Hridyam, Madhav Nidana, Rasendra Sara Sangraha, Bhaishajya ratnavali

Nidana of Pandu Roga

Aharaja Nidana

"क्षाराम्ललवणात्युष्णववरुधासात्म्यभोजनात्। वनष्पावमाषविण्याकवतलतैलवनषेवणात् 4

Excessive intake of Kshara, Amla, Lavana, Ati ushna anna, Virrudha Bhojana, Asatmya Bhojana, Excessive intake of Nispava, Masha, Pinyaka, Tilatail Excessive intake of Madya, Mrid bhakshana, Excessive intake of Kashaya Rasa, Katu Viharaja Nidana:

According to Acharya Charak

Sleeping, Exercise and Sexual Intercourse even before the food is not properly digested (Vidagdhe Anne Diwa swapana, Vyayama, Vyavaya). Suppression of natural urges (Vega Vidharana). Affliction of mind with Kama, Chinta, Bhaya, Krodha, Shoka, Improper administration of Pancha Karma Therapies (Pratikarma), Transgression of prescribed seasonal regimen (Ritu-Vaishmaya).⁵

According to Acharya Sushruta

Rakta gets vitiated by Amla lavana Bhojana, Ati Maithuna, madhya sevan, Diwa swapna etc ⁶

In todays lifestyle, excessive intake of Asatmya Aahar, Virrudh bhojana like junk food, baked food etc. may inhibit the normal physiology by producing ama that can lead to disturbance of the digestive and assimilative

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process. Thereby leading to malnutrition and ultimately disease like *Pandu roga* occurs. Excessive *pitta Vardhaka aahara vihara* leads to *Dushti* of *Rakta dhatu*

Viharaj Nidana like excessive exercise, excessive sexual act, excessive physical activity etc can disturb the Samyaawastha of Dosha and leads to occurrence of disease. Acharya sushruta mentioned Ativyayam as one of the cause of Pandu roga.

Mental activity like *Kama*, *Chinta*, *Bhaya*, *Krodha* can disturb the haemostatic condition of body, which can cause disease like *Pandu roga*. In our country, maximum population falls in lower-middle income groups. Therefore, in all type of *Pandu roga*, *Chinta* can be considered as one of the constant causative factors.

In *Charak Samhita*, the general etiology or *Samanya Nidana* of *Pandu roga* is described which is mainly related to *Aharaja*, *Viharaja*, and *Manasa Bhava*

In Sushruta Samhita Nidana of Pandu roga are not as descriptive as in Charak Samhita.

Acharya Vagbhatt in Ashtang Hridyam mentioned pitta as Samanya Pandu roga nidaan. Madhava Nidana follows Sushruta Samhita in Samanya Nidana of Pandu roga.

Our faultry dietary habits and lifestyle produces *ama* which cause *Agnimandya* and ultimately *Amayukta* ahararas produced. It hampers *Ras Dhatu utpatti* and manifests *Pandu roga*.

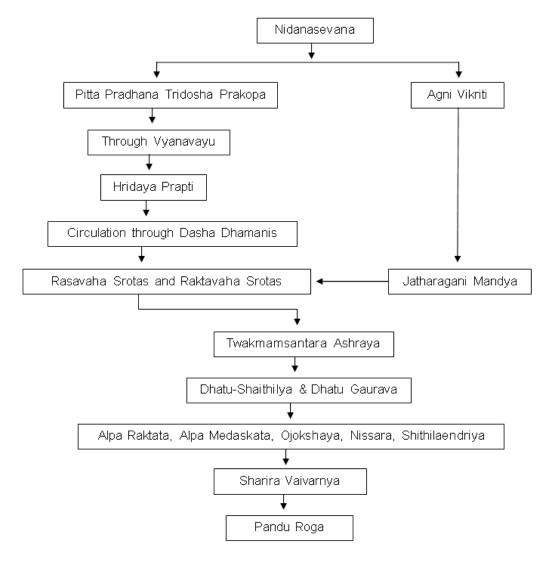
Poorava Rupa

Ashtang Hridyam has mentioned poorvarupa same as Charak Samhita. Except these Ashtang Hridyam also added Saad (malaise), Alpavahnita (less digestion power), Peeta mutratwa (yellowish tint of urine), Aruchi (anorexia). Madhava Nidana has mentioned same Poorvarupa as Sushruta Samhita.⁷

Rupa

Most of the Acharyas mentioned only *Doshik rupa* of *Pandu roga* not the *Samanya rupa* of *Pandu roga* but *Charak Samhita* and *Ashtang Hridyam* also mentioned the *Samanya rupa* of *Pandu roga*.

Samprapti of pandu roga



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Mritika bhakshana janya pandu roga;

Charaka Samhita, Ashtang Hridyam and Madhava Nidana have described the Mritika bhakshana janya pandu. Major etiological factor is Mritika bhakshana. In one, who is addicted to this any of the three Doshas may become provoked.

Madhur soil-Kapha prakopa Ushara soil-Pitta prakopa Kashaya soil-Vata prakopa The person who is having habit of eating earth, the earth produces roughness in *Dhatus* and enter in *Srotas* thus obstructing the channels. And at last, destroys the strength (*BALA*), complexion (VARNA) and power of digestion (*AGNI*).

Patient manifests with swelling on cheeks, orbit, and eye brows, swelling of feet and navel. Worm infestation which is one of the causes of *Pandu roga* is very much related to *Mritika bhakshana*.

S. no.	Drugs Botanical name		Family		
1	Amalaki	Embelica officinalis	Euphorbeaceae		
2	Pippali	Piper longum	Piperaceae		
3	Yashtimadhu	Glychrriza glabra	Leguminaceae		
4	Draksha	Vitis vinifera	Viticeae		
5	Shunthi	Zingiber officinalis	Zingiberaceae		
6	Vanshlochan	Bambusa arundinaceae	Graminae		
7	Sharkara	Sacharaum officinarum	Graminae		
8	Madhu	Honey			

S.	Drug	Rasa	Guna	Veerya	Vipaka	Doshghanta	Karma	Rogaghanta
no.								
1	Amalaki	Panch Rasa Amla Pradhan (Lavan Varjita)	Guru, Laghu Ruksha	Sheeta	Madhura	Tridoshahara Esp. Pittahara	Rasayan, Balya,	Rasayan, Balya, Paittikvikarhar, Agnimandyahar, Daurbalya, Shothhar
2	Pippali	Katu	Laghu Snigdha, Tikshna,	Anushna Sheeta	Madhura	Kapha Vatashamak	Deepana, Yakritutejaka, Raktavardhak, Rasayan	Shotha, Aruchi, Agnimandya, Yakridvikar, Pleehavridhi, Panduraktavikara
3	Yashtimadhu	Madhura	Guru, Snigdha	Sheeta	Madhura	Vatta Pittashamak	Varnya, Jeevanya, Rasayan, Balya	Raktaavikara, Raktalpta, Samanya, Dourbalya,
4	Draksha	Madhura	Snigdha, Guru, Mridu	Sheeta	Madhura	Vatapitta Shamaka	Trishnanigrahan, Medhya , Jeevaniya, Raktaprasadan, Raktapiitashamak	Bhrama, Pandu, Kamla, Swarbheda, Dourbalya, Shosha, Kasa
5	Shunthi	Katu	Laghu Snigdha (Shunthi)	Ushna	Madhura	Vatakapha Shamaka	Rochana, Deepna, Pachana, Shleshmahara,	Shothahara, Ajerna, Agnimandya, Aruchi, Anaha, SmanyaDourbalaya,
6	Vanshlochan		Laghu Ruksha Teekshna,	Sheeta Veerya	Madhura	Vattapittashamaka	Deepana, Pachana, Krimighana, , Raktastambhak, Shwashara, Balya, Brihman,	Agnimandya, Ajeerna, Krihami, Shawas, Kasa, Raktavikar, Atisara, Mootrakrichara,
7	Sharkara	Madhura	Sheeta	Sheeta	Madhura	Vattapittaharkaphakar	Asrahrut, Dahahrut, Shukrakarini, Chakchushya	Murcha, Chardi, Jwara, Kushtha, Vrana, Shwasa
8	Madhu	Madhura, Kashaya,		Sheeta	Katu (As. Sa. Su.5/52)	Vatakarak, Kaphapittashamak (Ch), Tridoshnashak (Su)	Vishaghana Trishnanakshak, Hikkanashak, Vranaropak, Bruhmna, Varnya, Medohara,	Hikka, Meha, Chardi, Shwasa, Kasa, Vranashodhak

Probable Mode of Action of AMALAKI AVALEHA:

Most of the ingredients present in Amalaki Avleha have Katu and Madhura Vipaka, Katu Vipaka increases the

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metabolism and *Madhura Vipaka* does the *Dhatu Poshana* and increase the vital strength.

It contains well known Rasayana drugs like Amalaki, Pippali that provides adequate nourishment to the dhatus which may improve Dhatu-shaithilya, Daurbalya and Ojogunakshaya. As seen in the Samprapti of Pandu Roga, aggravated Pitta Dosha afflicts Jatharagni, leads to Rasa Dhatu Dushti and ultimately other dhatus disturbing the Dhatu Poshana Parampara leads to Pandu Roga.

The *Deepana, Pachana* properties of drugs like *Shunthi, Pippali* corrects *Agnimandya* and alleviates *Ama i.e.* counteracts the poor digestion found in *Pandu Roga.* Thus, breaks the pathogenesis of the disease.

Amalaki is Panch Rasa Amla pradhan (lavan varjita), have Guru, Laghu, Ruksha Gunas, Madhura Vipaka, is Tridoshhara esp. Pittahara, have Rasayan, Balya, Vrishya is Paittikvikarahar, Agnimandyahar, Karmas, Daurbalyanashak.⁸ Amalaki possesses Pitta Pradhana Tridosha Shamak action so directly acts on the major Dosha involved in the Samprapti of Pandu, bringing about Shaman of Prakupita Doshas. Being a Rasayana it prevents Ojokshaya. The Deepana, Anulomana, Shonitsthapana Karma of Amalaki help in alleviating the Agnimandya, Daurbalya, Shrama like symptoms in Pandu Roga 9 Various studies have been performed for getting insights about the therapeutic effect of Amalaki and its chemical constituents. It has been found that Amalaki exhibits promising antioxidant potential by virtue of antioxidants present in it which include Vitamin C, bioflavonoids, flavones, polyphenols, and carotenoids 10. They work against free radical-induced oxidative damage thereby increasing the anabolic activity in body. Also the oxidative stress, i. e., an increase in oxidants or a decrease in antioxidant capacity is one of the potential biochemical mechanisms involved in the pathogenesis of IDA, owing to these properties Amalaki might have help in Samprapti Vighatana of Pandu. Amalaki is also a potent source of Vitamin C (ascorbic acid) which is the most potent enhancer of non-heme iron absorption by forming a chelate with ferric iron at acid pH that remains soluble at the alkaline pH of the duodenum ¹¹

Shunthi has Katu Rasa, Laghu Snigdha Guna, Ushna Veerya, Madhura Vipaka, is Vatakaphashamak, have Rochana, Deepna, Pachana, Shleshmahara properties, works in Agnimandya, Aruchi, Anaha, Samanya Dourbalaya ¹². Since, Pandu is a Ruksha Guna Bhuyishtha Vyadhi, Shunthi, Pippali, Yashtimadhu having Snigdha guna may have a significant role in Pandu.

Pippali has Katu rasa, Laghu Snigdha, Tikshna Guna, Anushna Sheeta Veerya, Madhura Vipaka, is Kapha Vatashamak, has Deepana, Yakritutejaka, Raktavardhak, Raktashodhaka, Rasayan properties, works in aruchi, Agnimandya, Yakridvikar, Pleehavridhi, Mastishka, Panduraktavikara Pippali is also said to be used in Pandu with different Anupanas (B. P. N Haritakyadi Varga 55-58), (Su utt44/22), (A. Hr. ci 16/38). Pippali is a proved drug to increase bioavailability. 13 Due to its Katu Rasa, Pippali is Srotoshodhaka so it clears the obstruction in Srotas and assist in Samprapti Vighatana of Pandu roga,

moreover, *Deepan*, *Pachana* and *Vatanulomana* properties of *Pippali* improves the digestion and reduces *Ama Uttpatti*, this counteracts poor digestion found in *Pandu Roga*. *Pippali* is *Yakritutejaka*, acts on *Yakrita* and *Pleeha* (the *Moola Sthana* of *Ranjaka Pitta*, which does the *RasaRanjana*), thereby proper *Rasadhatu* formation occurs. It forms one of the ingredients in various compound preparations used for anorexia, dyspepsia (CSIR, 1969).

Yashtimadhu possess Madhura Tikta Rasa which pacifies Pitta. Its Gunas are Guru, Snigdha which contradicts Laghu, Tikshna Guna of Pitta, and also pacifies Vata. Sheeta Veerya aids in Shamana of the Ushna Veerya of Pitta. Vipaka being Madhura also contributes to Shamana of Pitta. It has Varnya, Jeevanya, Rasayan, Balya properties, works in Raktaavikara, Raktalpta, Samanya Dourbalya, Vatavikara. As per Charaka, Yashtimadhu is a Dravya mentioned under Shonithasthapana Gana.

Madhu has Madhura, Kashaya Rasa, Guru Ruksha Guna, Sheeta Veerya, Katu Vipaka, is Tridoshnashak (su), and Vatakarak, Kaphapittashamak (ch), have Bruhmna properties. One of the important properties as Yogovahi (bioenhancer) by which they enhance the medicinal qualities of the preparation and also help them to reach the deeper tissues. 15 Honey increases antioxidant agents like vitamin C concentration by 47%, it increases serum iron by 20% and decreases plasma ferritin by 11% ¹⁶. The presence of a variety of flavonoids, phenols, vitamins, minerals and antioxidant enzymes and other factors in the honey composition increases its antiinflammatory and anti-oxidant properties. Previous animal studies reported that daily administration of raw honey could improve haematological parameters and increase hemoglobin levels and red blood cell counts 17

Sharkara have Madhura Rasa, Sheeta Guna, Sheeta Veerya, Madhura Vipaka, is Vatapittahar-Kaphakar, pacifies the Pitta dosha, might have helped in subsiding the symptoms of Pandu.¹⁸

Vanshlochan have Madhura Kashaya Rasa, Laghu Ruksha Teekshna Guna, Sheeta Veerya, Madhura Vipak, Vatapittashamak, have Deepana, Pachana, Krimighana, Balya, Brihman properties and works in Agnimandya, ajeerna, raktavikar. AFI. Owing to these properties it is useful in diseases of blood and generaldebility. Acts as Diuretic, Tonic, Rejuvenator 19

Draksha has Madhura Rasa, Snigdha Guru, Mridu Guna, Sheeta Veerya, Madhura Vipaka, is Vatapitta Shamak have Jeevaniya, Raktaprasadan, Raktapiitashamak, Balya properties, works in Pandu, Dourbalya have as Raktaprasadaka & Balya, has been mentioned directly in Roghghanta of Pandu. Draksha fruit contains dehydro ascorbic acidi.e. oxidized form of ascorbic acid, which helps in the absorption of the available iron99. Draksha contains Alanine which is a non-essential amino acid²⁰, that has been shown to help protect cells from being damaged during intense aerobic activity, when the body catabolize muscle protein to help produce energy this might have reduced the symptom of Daurbalyta. Also in

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Charaka, Madhu, Yashtimadhu, Sharkara are said to be Shonitsthapak, Pippali as Raktavardhak, Draksha as Raktaprasadhaka, Amalaki as Vayasthapaka.

3. Conclusion

Pandu is a Piita Pradhan Tridoshaja Vyadhi. Pandu Roga can be effectively compared with Anaemia on the ground of its similarity in sign, symptoms, complications and treatment point of view. In conventional system of medicine there is effective treatment for Anaemia with considerable results but still there are some side effects like intolerance, nausea, constipation etc. Also there is Gastrointestinal tract's limited capacity for Iron absorption, these shortcomings could be effectively treated with holistic approach of Ayurveda which should include dietary factors, physical and environmental factors is necessary to prevent incidence of Pandu roga and there are number of Ayurvedic medicines available to cure this disease. So, Ayurvedic preparation like AMALAKI ALEHA are safe in therapeutic doses and should be recognized by evidence based research

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