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Understanding the role of Sushrutokta Salsaradi gana in Panduroga

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Abstract

Ayurveda is the oldest system of health care dealing with both preventive and curative aspect of life in a most comprehensive way and presents a close similarity WHO's concept of health pronounced in the modern era. Pandu is Varnopalkshitha Vyadhi and mentioned in both Santarpanothha and Apatarpanothha vikaras, whereas Panduta is Pratyatma Lakshana and so Alparakto Alpa Medosko is also said for Pandu. This description avails the correlation of anaemia with Pandu. Iron deficiency is a disease that has similar paleness, constitutional symptoms, aetiology and pathology. Pandu and iron deficiency anaemia have been studied in to facilities the parallel better understanding of the disease. This disease was chosen for the study due to extremely high incidence. deficiency is the commonest nutritional deficiency worldwide and its prevalence is highest in India. So, we are proposing the Salsaradi gana as the best choice in Santarpanothha Pandu Vyadhi. Acharya Sushruta has explain that the drugs involved in Salsaradi Gana are useful in different conditions like Prameha, kapha and meda vishoshaka, and in Panduroga. But in this article we have try to discuss about the pharmacological action of Salsaradi Gana in Pandu Vyadhi. These drugs possess predominance of Kashaya rasa, Katu Vipaka, Sheeta veerya and Ruksha-Laghu guna. Thus, help to reduce the lakshanas of panduroga.

Keywords -

Salsaradi gana, panduroga, pharmacological action.

Introduction-

The practice of Ayurveda as a medicine is believed to date back to over 5,000 years, during the Vedic period of Ancient India. The name "Ayurveda" derived from two words in Sanskrit as "Ayush" means "life" or "longevity" and "Veda" means science or scared knowledge. Roughly the definition of Ayurveda is "the science of longevity". As its root, Ayurveda has holistic

tradition and way of living that can help each of us to claim and celebrate our capacity for wellness. The Sanskrit word for health is 'Swastha', is a state in which the Mana (mind), Aatma (soul) and *Indriva* (senses) *Samyoga* (interact) harmoniously to experience a feeling of self, wellbeing and even bliss. Ayurveda recognises five elements called as Panchamahabhuta as the fundamental building blocks of nature. These are Akasha, Vayu, Teja, Jala and Prithvi. [1] Pamchabhautika siddhanta is the main part of chikitsa in Ayurveda because all dravyas are *Pamchabhautika* in nature. [2] It also identifies twenty qualities (Guna) that can be used to describe certain substance or drug viz., Guru, laghu, Manda, Tikshna, Hima, Ushna, Snigdha, Khara. Shlakshna. Ruksha. Kathina, Mrudu, Sthira, Sara, Sukshma, Sthoola, Vishada, Picchila and Drava. [3] Without these gunas dravvas cannot be used in chikitsa. Any dravya can be used as medicine if they possess specific quality or Guna and used in proper matra. Then, there are three doshas as Vata, Pitta and Kapha, useful in the assessment of treatment in vyadhi. [4] The reason behind the all diseases is one and only one i.e. Agnimandya. As Acharya Vagbhata said that "Rogah sarvepi mandagnau". [5] It is the disease

itself and symptoms in all the diseases. Ayurvedic medicine has potential to cure and maximize the *Agni* and maintain in good state.

Pandu is one of the disease in which Agnimandya is the major cause in most of the cases. According to Ayurveda, the panduroga is not restricted Apatarpanottha vyadhi but it also included in santarpanottha vikara. [6] Adhyashana, Ajeernashana, Vishamashana and excessive Madhura rasa sevana are the cause of Agnimandva in Santarpanottha Panduroga. In modern it can be co-related with the disease deficiency Anaemia specially iron anaemia.

Acharya Sushruta has given the combination of drugs which treat the Panduroga is Salsaradi gana. The drugs involved in the Salsaradi gana are Salsara, Ajakarna, Khadira, Kadara, Kalskandha. Kramuka. Bhurja, Meshashringa, Tinisha, Chandana, Kuchandana. Shimshapa, Shirisha. Asana, Dhava, Arjuna, Tala, Shaka, Naktamal, Putika, Ashwakarna, Aguru and Kaliyaka. [7] This drugs are useful in many diseases like Prameha, etc. but there is clinical trial no on pharmacological action of these drugs in Panduroga.

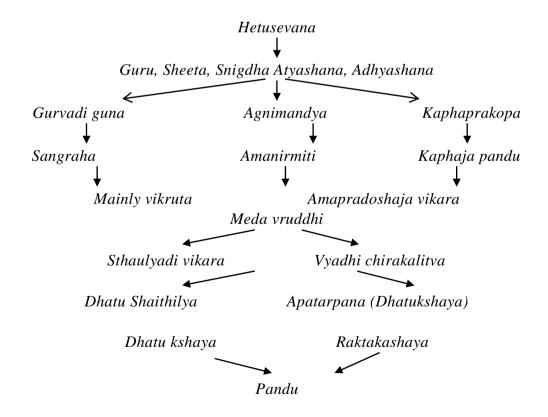
Review on drugs involved in Salsaradi gana-[8]

Sr. No.	Dravya	Rasa	Vipaka	Veerya	Guna	Doshghanata
1	Salsara	Kashaya	Katu	Sheeta	Ruksha	Kapha,Pitta
2	Sarja	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
3	Khadir	Tikta, Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
4	Tindukbhed	Kashaya	Katu	Sheeta	Ruksha, Laghu	Kapha,Pitta
5	Kramuka	Kashaya, Madhura	Katu	Sheeta	Guru,Ruksha	Kapha,Pitta
6	Bhurja	Kashaya	Katu	Ushna	Laghu, Ruksha	Tridosha

7	Meshshrungi	Kashaya	Katu	Ushna	Laghu, Ruksha	Kapha,Vata
8	Tinisha	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
9	Chandana	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
10	Raktachandana	Kashaya	Katu	Sheeta	Guru, Ruksha	Kapha,Pitta
11	Shinshapa	Kashaya	Katu	Ushna	Laghu,Ruksha	Tridosha
12	Shirisha	Kashaya, Tikta, Madhura	Katu	Ushna	Laghu, Ruksha, Tikshna	Tridosha
13	Asana	Kashaya, Tikta	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
14	Dhava	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
15	Arjuna	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
16	Taala	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
16	Shaka	Kashaya	Katu	Sheeta	Laghu, Ruksha	Kapha,Pitta
18	Naktamala	Tikta, Katu, Kashaya	Katu	Ushna	Laghu, Tikshna	Kapha, Vata
19	Putikaranja	Tikta, Katu, Kashaya	Katu	Ushna	Laghu, Ruksha	Kapha, Vata
20	Ashwarna	Katu, Tikta	Katu	Ushna	Laghu,Ruksha	Kapha,Vata
21	Aguru	Katu, Tikta	Katu	Ushna	Laghu, Ruksha, Tikshna	Kapha, Vata
22	Pitchandana	Tikta, Madhura	Katu	Sheet	Laghu, Ruksha	Kapha,Pitta

Samprapti of Pandu-

Acharya Charaka in 17th adhyaya of sootrasthana has described the samprapti of panduroga which is more described towards the santarpanottha panduroga [9] as follows-



- Dosha Tridosha with dominance of Pitta
- Dushya All Dhatu including Oja
- Srotas Rasavaha, Raktavaha,Medovaha
- > Strotodusti Sanga
- > Udbhavasthana Hridaya
- ➤ Sanchara Whole body
- > Vyakti Sthana Twak
- Roga Marga Madhyama Roga Marga

Pathophysiology of iron deficiency anaemia [10]

3-4 gram of iron is present inside the adult. Out of these, 60-70% of iron is present inside the Hb of the RBCs. After 120 days when the RBCs will die, releases Hb which breakdown into Haeme and Globin. This Haeme again converted into iron and binds with transferrin which transports the molecules present inside the blood. This iron goes into bone marrow through blood to make Hb again or that can be stored in the form of ferrous ion.

The remaining 30% of the iron which is not used to make Hb is known as tissue iron. It is of two type's i.e. available storage of iron and non-available iron. The available storage of iron is reutilised to make Hb again and the non-available

form cannot used to make Hb, but it is used to make myoglobin and enzymes like catalyse.

Physiology of iron metabolism [10]-

When the food enters in the stomach. acids and some other substances break the food stuff and iron is released. This iron is initially in Fe+3 form i.e. ferric form. With the help of vitamin C, these ferric iron are converted into ferrous iron i.e. Fe+2 ion and is absorbed by lining of epithelium of GIT lumen. Here it is stored in Fe+2 form. At this stage HFE protein has key role in absorption of ferrous iron inside lining of epithelium of GIT. Some part of these ferrous iron goes inside the blood and bind with transferrin and again convert into ferric iron form. Most of the ferrous iron will be stored in the lining epithelium itself with by binding protein called apoferretin and the substance called as Ferritin which is stored inside lining epithelium itself. The ferric iron inside the blood called as transferred iron, goes to different places like bone marrow where all blood cells are made and the RBCs required Hb inside them.

Causes of iron deficiency anaemia-

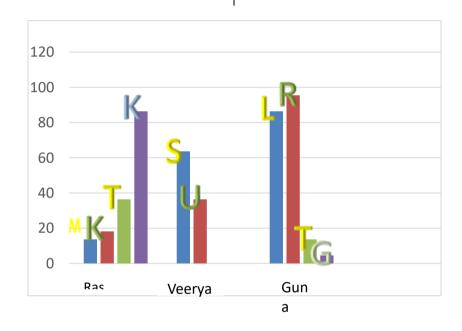
There are number of causes for iron deficiency anaemia. Out of which,

inadequate intake of iron is one of the causes. It is due to two reason viz., impaired absorption of iron and nutritional deficiency. The absorption of iron is impaired due to gastrointestinal diseases, surgical history of GIT i.e. partial gastrectomy. So due to this, there

is reduced in the capability of HCL and the HCL is important for the breakdown of food particles and release of iron. [11]

Discussion-

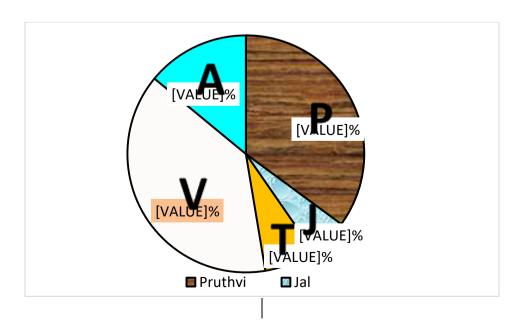
Rasapanchaka of Salsaradi gana-



From the above bar diagram, it is clear that these *dravyas* have predominance of

Kashaya and Tikta rasa, Sheeta veerya and Ruksha and Laghu guna.

Panchabhautika constitution of Salsaradi gana-



The above pie diagram indicate that these group of *Salsaradi gana* has predominance of *Prithvi* and *Vayu Mahabhuta*.

Pandu is the disease in which there is vitiation of pitta and Rakta dosha, predominance of Kashaya and Tikta rasa decrease these doshas. [12] Also Kashaya rasa has Astrashodhana, kleda-medavishodhana property, due to which Rakta shodhana takes place and the kledameda-shoshana property helps decreasing the formation of Krimi in the [13] GIT. Ultimately shows helminthic activity. In Pandu, due to stressful condition there are formation of free radicals or ROS. Kashaya rasa (Astringent) is a good source of antioxidant. Sheeta veerya is pittashamaka and has the main karma 'Jeevana' which is also of Rakta dhatu. [14] It helps in Rakta prasadana.

Prithvi mahabhuta has Sthairya, Bala, Upachayakara properties. Hence it decreases Shaithilya and other lakshanas in Pandu. Vayu mahabhuta has predominance Laghu and Ruksha guna, so it helps in decreasing the strotorodha caused by Sheeta, Guru, Atisnigdha and Picchila gunapradhanata. [15]

All these *dravyas* possess *Katu veerya* which has the property '*Agnideepana*' and '*Amapachana*'. ^[16] These two *karmas* are very essential to cure *Agni*; the main cause of any disease.

Conclusion-

Pandu is Pitta pradhana tridoshaja vyadhi which vitiates Rasadi dhatu. Kashaya rasa reduces pitta and pittashamaka property helps in controlling the enzymatic activity in the gut; thus improving the iron absorption. The kashaya rasa also keeps the pitta dosha in balance state. Sheeta veerya has pralhadana, prasadana, sthirikarana

properties. *Katu vipaka* has *Deepana*, *paachana*, *ruchya*, *shodhana* properties. All the drugs in salsaradi gana have antioxidant, hepatoprotective, anti-ulcer, anti-helminthic activities. Therefore, it can be stated that *Salsaradi gana* is useful in the treatment of *Pandu* (Iron deficiency anaemia).

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