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Review Article

AN AYURVEDIC PERSPECTIVE OF *PANDUROGA* -A REVIEW Pooja Badani^{1*}, Hitesh Vyas²

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ABSTRACT

Pandu Roga was well known to Indian people science since Vedic Period. It is described in full length by all the Acharyas of Ayurveda as a specific disease with its own Pathogenesis and treatment. In *Panduroga* change the color of the body like pallor of skin, sclera, nail, tongue etc. due to Rakta-alpata means Hemoglobin level decrease than the normal level. It is related with both important Dhatu Rasa and Rakta. We can correlate this disease to Anaemia in modern science. Anaemia is the world's second leading cause of disability and is responsible for about 1 million deaths a year. It is therefore important for Ayurvedic scholar to search scientific reason behind the disease. With this research interest the present study has been undertaken thoroughly review of Panduroga. Three general principles of treatment have been mentioned in Charaka Samhita. They are Daivavyapashraya, Yuktivyapashraya and Satvawajya. Here only Yuktivyapashraya Chikitsa has been mentioned. Single drugs which have been used in Pandu are - Lauha Bhasma, Mandura Bhasma, Pure Kaseesa, Shilajita, Vardhamana Pippali etc. Compound drugs which are of vegetable origin e.g. Triphala, Phalatrikadi Kwatha, Punarnavashtaka Kwatha, Vidangavaleha etc. Here also made some efforts to discuss every aspect of *Panduroga* in *Ayurvedic* point of view.

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INTRODUCTION

Panduroga is known from the Vedic Period. This disease was described in ancient Hindu treaties like in Ramayana, Mahabharata, Agnipurana, Garuda Purana etc. In Mahabharata, Pandu has been described as the father of Five Pandvas and as the son of Ved Vyasa. Pandu has been described by the name of Vilohita. It is to be appreciated here that Lohita is the synonym of Rakta Dhatu. The term Lohita probably indicates the importance of Lauha Dhatu or Iron in its development. In Garuda Purana, there is a reference in which "Takra" mixed with Lauha Churna has been advocated for the treatment of Pandu.[1] This shows that Panduroga was prevalent in that period and physicians were able to diagnose and treat it. It is therefore apparent that the use of Iron preparation for the treatment of *Panduroga* was well known since ancient times.

While describing the pathological aspect of the diseases, *Dhatu Pradoshaja Vikaras* have been mentioned. *Pandu* is the disease of *Rasavaha Srotas* according to *Charaka Samhita*^[2] and *Raktavahasrotoviddha Lakshana* and *Rasadoshaja Vikara* as per *Maharshi Sushruta*.^[3,4] Thus it is related with both important *Dhatu Rasa* and *Rakta* Principal function of both these *Dhatu* has been described as *Preenana* (providing nourishment) & *Jeevana* (life activity) *Karma*.^[5] This is how disease *Pandu* can be the choice of disease to assess the *Dhatuposhana Krama*.

Acharya Charaka described Pandu after Grahanidosha Chikitsa due to aggravation of Pitta in Grahani, and the aggravation of Pitta constitutes a predominant factor in the causation of Pandu. Acharya Sushruta has mentioned after Hridaroga due to Same Samkhya Samprapti and treatment of Hridaroga like Tikshna, Amla, Katu etc may cause for development of Pandu. Acharya Vagbhata mentioned after Udararoga due to Same Doshasanghata.

Pandutva has been mentioned as cardinal symptom of the disease which is related with the colour and complexion of the body. Pandu develops due to vitiation of Bhrajaka Pitta and Rakta which are mainly responsible for the Prakrita Varna of body. Acharya Charaka has mentioned the word "Vaivarnaya" in this regards. Acharya Chakrapani has described it as Shweta, Dhusara, Shwetavabhasa, Peetavabhasa. All of these opinions points towards various kind of discolouration of the body but not specifying any one particular colour like pallor.

Vyutapatti

The word "Pandu" is derived from root "Padi-Nashane" by adding "Ku" Pratyaya in it.

Pandu has been described as - A white colour mixed with yellowish tinge by Amarakosha. [6]

According to *Vachaspatyam*^[7] *Pandu* is like whitish yellow colour of pollen grains of *Ketaki* Flower.

Monier William [8] has taken Pallor from Pandu Varna.

After considering all these descriptions, one may find it difficult to decide about actual colour by "Pandu Varna" but if one gives a due consideration of Samprapti of Pandu given by Acharya Charaka who has mentioned that in Pandu there is Kshaya or loss of Varna or general complexion. Acharya Charaka has also mentioned the word "Vaivarnaya" in this regard. Commentator-Gangadhara has described it as Mlana Varna. All of these opinions of commentators points towards various kind of discolouration of the body but not specifying any one particular colour like pallor.

Nirukti of Panduroga

According to our Acharyas, among the different kinds of colours such as *Pandu*, *Haridra* and *Harita*, *Pandu* being more common among this so, disease is called as *Panduroga* itself.

Nidana: *Nidana* is most important as the avoidance of etiological factor forms the first and foremost line of treatment. *Nidana* of *Panduroga* can be classified into following three categories.

- 1. Aharaja Nidana
- 2. Viharaja Nidana
- 3. Nidanarthakara Roga

1. Aharaja Nidana

Acharya Charaka has described following etiological factors regarding Ahara.

- Excessive intake of Kshara, Amla, Lavana, Ati Ushnaanna, Virruddha Bhojana, Asatmya Bhojana.
- Excessive intake of Nishpava, Masha, Pinyaka, Tilataila.
- Excessive intake of Madva
- Excessive intake of Kashaya, Katu Rasa

2. Viharaja Nidana

According to Acharya Charaka:Vidagdhe Anne Diwaswapna, Vyayama, Vyavaya, Vega Vidharana, Affliction of mind with Kama, Chinta, Bhaya, Krodha, Shoka, Pratikarmaritu – Vaishmaya are the Viharaja Nidanas.

According to *Acharya Harita: Harita Samhita* described few new *Viharaja Nidana* and modified some of the *Nidana* of ancient texts. All these have been enlisted below.

- Nidranasha (Loss of sleep)
- Atinidra (Excessive sleep)
- Avyayama (Not doing any Exercise)
- Atishrama (Excessive exercise)
- *Snehavibrama, Snehatiyoga* and *Amatisara* have also been taken as the causes of this disease.

Manasa Nidana of Panduroga Chinta, Bhaya, Krodha, Shoka are described in different classical texts.

Nidanarthakara Roga: In *Ayurvedic* literature *Panduroga* has been indicated either as a symptom of many diseases or as *Upadrava*. So, all these diseases can

be considered as *Nidanarthakara Rogas* of *Panduroga*. Some of which are *Raktarsha*, *Kaphaja Arsha*, *Raktarbuda* etc. Following table presents *Nidanarthkara Roga* for *Panduroga* according to various classical texts.

Purvarupa: Avipaka, AkshikutaShotha, Aruchi, Alpavahnita, Angasada, Gatrasada, Hridspandaman, Mutra Pitata, Mridbhakshanaechcha, Panduta, Rukshata, Swedabhava, Shrama, Sthivanadhikya, Twakasphutana. It is to be noted that Acharya Sushruta has mentioned Mrudabhakshanaechchha as Purvarupa of Pandu. Acharya Harita has mentioned Panduta in the Purvarupa of Pandu.

Rupa: Pratyatma Ling of this disease is Panduta or Pandubhava, which is invariable feature. Various types of discolouration have mentioned by almost all Acharyas. They have also described Rupa in different types of Panduroga. Pandu doesn't occur only due to lack of Rakta Dhatu but along with it other Dhatus also get vitiated due to aggravated Dosha in certain stage.

Samanya Rupa of Panduroga^[9,10]

Acharya Charaka and Vagbhata have mentioned the Samanya Rupa of Pandu. The following table shows different Samanya Rupa of Panduroga. Akshikutashotha, Aruchi, Arohaneayasa, Alpawaka, Annadwesha, Balakshaya, Bhrama, Durbalya, Dhatugaurava, Dhatushithilya, Gatramarda, Gaurava, Hatanala, Hatprabhatva, Jwara, Kopana, Karnashweda, Katiurupadaruka, Medalpata, Nidraluta, Nisharata, Ojagunakshaya, Pindikodweshtana Panduta, Raktalpata, Shishiradwesha, Shwasa, Shirnalomata, Sadana, Shrama, Shthivanadhikya, Shithilendriya. These features communicate to that of Mandagni, Rasa Kshaya, Rakta Kshaya and their further consequences i.e. effects of deficient nourishment to other body tissue.

Classification of Panduroga

Acharya Sushruta has classified Panduroga in 4 varieties:

- 1. Vataja Panduroga
- 2. Pittaja Panduroga
- 3. Kaphaja Panduroga
- 4. Tridoshaja Panduroga

Acharya Charaka has mentioned one additional variety of Panduroga that is Mrida Bhakshanjanya Pandu. Harita Samhita has mentioned Halimaka and the two varieties of Kosthashakhashrita Kamala in the classification of Pandu. This addition brings up the number to eight verities. However, some Acharyas opine that Halimaka and Koshta Shakhasrita Kamala are secondary to Pandu and cannot be included in disease. Similarly they also opine that Mrid-bhakshanjanya Pandu should not be treated as fifth variety but should be included within Vatajadi three varieties since Mrid-bhakshanjanya Panduroga comes into manifestation through the vitiation of Vatajadi Dosha. If viewed logically, the classification given by Acharya Charaka seems to be more rational and acceptable.

1.Vataja Panduroga

Due to *Vata* provoking diet and activity, the *Vata* gets provoked and *Pandu* occurs.

2. Pittaja Panduroga

After taking *Pitta Prakopaka Ahara-Vihara Pitta Dosha* gets vitiated and accumulated in the body of the person of *Pitta Prakriti*, vitiates the *Rasa* & *Rakta* along with *Mamsa Dhatu* and causes *Pittaja Panduroga*.

3. Kaphaja Pandu

Due to *Kapha* aggravating *Ahara* and *Vihara*, *Kapha* gets vitiated and causes *Kaphaja Pandu*.

4. Sannipataja Panduroga

In person who indulges in *Tridosha* vitiating *Ahara, Vihara,* all the three *Doshas* get simultaneously aggravated and causes *Tridoshaja Pandu,* which shows all the symptoms of *Vataja, Pittaja* and *Kaphaja Pandu.*

5. Mridbhakshanajanya Panduroga

Acharya Charaka, Vagbhata and Madhava have given this type of Pandu where Mridbhakshana stands as causative factor. The soil of Madhura Rasa vitiates the Kapha Dosha, the soil of Lavana Rasa vitiates the Pitta Dosha and the soil of Kashaya Rasa vitiates Vata Dosha.

Samprapati of Panduroga

General Samprapati of Panduroga is as per Acharya Charaka:

When the *Pitta* located in its normal abode of heart, become expelled by the vitiated *Vayu*, into the *Dasha Dhamani* and is mobilized throughout the body. It gets localized in between the *Twak* and *Mamsa* and vitiates the *Kapha*, *Vata*, *Asrika*, *Twaka* and *Mamsa* subsequently causing a variety of colour in the skin such as *Pandu*, *Haridra*, *Harita* etc. This condition is known as *Panduroga*.

Acharya Sushruta has mentioned that Pandu Bhava is caused by vitiation of Twak through the vitiated Rakta in one who indulgence in Ahita Ahara Vihara. [11] Acharya Vagbhatta has mentioned the Samprapati given by Acharya Charaka.

The pathology of *Panduroga* is mainly concerned with vitiation of *Pitta* which in turn vitiates the *Rakta*, leading to condition of *Pandubhava*. Thus, *Pitta* being the *Pradhan Dosha* or main factor in the causation of *Panduroga*, all the fivefold functions of it are affected more or less, but as the main seat of the disorganization is the *Rakta*, the *Ranjana* function of *Pitta* is to bear the brunt. Thus *Pitta Dosha* takes leading part in the production of *Dhatushaithilya* and *Dhatugaurava*. This leads to *Balakshaya*, *Varnakshaya* and *Ojakshaya*. Ultimately, the *Panduroga* is stated to be afflicted with *Raktalpata*, *Medalpata*, *Nihsarata*, *Vivarnata* and *Shithilendriyata*.

The role of *Dosha- Dushya* in the manifestation of *Panduroga* is described as below:

Role of Vata Dosha

Though *Pitta* is *Pradhana Dosha* in *Panduroga*, *Vata Dosha* also plays an important role in manifestation of *Panduroga*. Out of five types of *Vata*, mainly *Vyana Vayu* is related with the *Samprapti* of *Panduroga*. Vitiated *Vata* is responsible for *Kampa*, *Angasada*, *Gatrashula*, *Raukshya*, *Twak Parushya*, *Kati-Uru-Pada Ruka* etc.

Role of Pitta Dosha

Pitta is responsible for the normal colour of body but when it vitiates due to the same quality in nature it also vitiates *Rakta*, and causes *Panduroga* which ultimately leads to *Panduta* of the body.

Role of Kapha Dosha

Kapha seems to play a vital role in the development of Panduta. According to Acharya Charaka, Panduroga occurs due to vitiation of all three Doshas. Aggravation of Kapha Dosha causes Mandagni which leads to Uttarottara Dhatu Aposhana due to Srotorodha and ultimately leads to Panduta of the body.

It has also been stated that *Santarpana* which broadly means anabolism, brings about an increase in *Kapha* which intern may cause the disease by generating *Ama* and causing *Mandagni*. Thus, any diet which increase *Kapha Dosha* or any disease associated with increase in *Kapha* can cause a change in complexion or *Panduta*. Vitiation of *Kapha Dosha* is responsible for *Gaurava*, *Nidraluta*, *Mandagni*, *Alasya*, *Alpavaka* etc.

Dushyas of Panduroga

Acharya Charaka and Vagbhata have mentioned Twak, Rakta and Mamsa as the dominant Dushyas in Panduroga. Dhatus involved in the pathogenesis of Panduroga can also be understood by a detailed study of symptoms.

The symptoms such as Aruchi, Jwara, Panduta, Gaurava and Tandra are indicative of Rasa Dhatu Dushti. Angamarda indicates the involvement of both Rasa and Rakta Dhatu. Karshya is indicative of Mamsa Dhatu Dushti. Atisveda and Svedabhava are suggestive of involvement of Twak, Mamsa Dhatu and Medo Dhatu. Shirnalomata is an important indicative of Asthidhatu Dushti. The loss of luster and debility are suggestive of depletion of Oja. Thus among Saptadhatus mainly Rasa and Rakta Dhatu are involved in this disease.

- 1. Rasa Dhatu: According to Acharya Charaka, Sushruta and Vagbhata, Rasa Dhatu undergoes a change to produce Pandubhava. Acharya Charaka and Acharya Sushruta have mentioned Panduta as one of the disease associated with the vitiation of Rasa [13]. Acharya Charaka has already stated that vitiated Doshas get lodged in Rasadi Dhatus and produce the disease [14] whereas Acharya Sushruta has mentioned that when the vitiated Vata as well as Amadosha affect the Rasa Dhatu, the disease is produced.
- 2. Rakta Dhatu: Acharya Charaka and Acharya Sushruta have clearly mentioned that the vitiation of all the three Doshas leads to Rakta Dushti and thereby Twak becomes pale in colour. According to Acharya Harita, there is a decrease in the blood volume, as is clearly indicated by "Nayati Rudhirashoshana" [15]. Acharya Charaka has mentioned the word Alparakta for this condition.

Complication (*Upadrava*)

Any factor which in early part causes development of diseases, if the same factor in late part produces any other severe manifestation, then it is called

Upadrava. Acharya Sushruta only has described the *Updravas* of *Pandu*.

Treatment of Panduroga

In Ayurveda, three general principles of treatment have been mentioned in *Charaka Samhita*. ^[16] They are *Daivavyapashraya*, *Yuktivyapashraya* and *Satvawajya*. Here only *Yuktivyapashraya Chikitsa* has been mentioned which is as follows.

- 1. *Nidana Parivarjana* (Avoidance of aetiological factors)
- 2. Snehana (Oleation therapy) and Swedana (Fomentation therapy)
- 3. *Shodhana* (Eliminating the factors responsible for producing the disease).
- 4. *Shamana* (Palliative treatment) to correct the deficiency or abnormality and also treat the allied symptoms.

In *Pandu Roga* both *Shodhana* and *Shamana Chikitsa* can be performed. Keeping the above view in mind various method have been prescribed, some of which act as *Snehana*, some as *Shodhana* and some act specifically on *Panduroga* along with *Snehana* and *Shodhana Gunas* importance.

Snehana- In case of Pandu, there is diminution of Rakta, Meda, Oja etc. and the body becomes dehydrated, emaciated and deficient in lipid substances; which provoke Vata causing further deterioration the condition. For Snehana Karma, various preparations have been mentioned in Ayurvedic text. For example, Rajnighrita, Triphala Ghrita, Tilavaka Ghrita, Dadima Ghrita, Danti Ghrita, Draksha Ghrita, Panchgavya Ghrita, Mahatikta Ghrita, Panchatikta Ghrita etc. They can be used in various types of Pandu according to the predominance of Doshas, variation in pathogenesis and in symptoms.

Swedana: After *Snehana*, *Swedana Karma* is done depending upon the patient's condition so as to bring the *Doshas* into *Koshtha*.

Shodhana: Vamana and Virechana Karma both can be performed in Panduroga after proper oleation. Commenting on the performance of Vamana, Acharya Dalhana has said that while performing Vamana in case of Panduroga one should always keep in mind about physical condition of the patients, the climate, time and place. Acharya Charaka has mentioned Madanaphala as most suitable drug for emesis in case of Pandu. [17] Similarly, for Virechana a long list of drugs has been mentioned in Ayurvedic texts but Acharya Sushruta [18] has given more stress on Haritaki in all types of Pandu.

Shamana Chikitsa (Palliative treatment)

- 1. Treatment according to predominance of *Doshas*.
- 2. Specific treatment.
- 3. Treatment according to the predominance of *Lakshanas* (symptomatic treatment).
- 4. Pathya-Apathya

I. Treatment according to predominance of Doshas

In cases of *Vatika Pandu* the substances having *Snigdha Guna*, in *Paittika* the substances having *Madhura*

and *Tikta Rasa* and in *Kaphaja Pandu* drugs having *Ushna Virya* and in *Tridoshja Pandu*, a mixture of all the above should be prescribed. In *Mridbhakshanajanya Pandu*, the *Mritika* which may be composed of various indigestible and inaccessible substances obstructs various cannels. Thus, it is necessary to remove it by *Tikshna Virechana*.

II. Specific treatment: *Vishishta Aushadhi* (Specific Drugs) - As already described that *Pandu* is predominantly due to lack of blood. The fact that *Lauha* is closely related with formation of blood was well realized and that is why *Rakta* has also been known by the word *Lohita*, and *Pandu* by the word *Vilohita*. Use of *Lauha* preparation in the treatment of *Pandu* is mentioned by almost all the Ayurveda *Samhita*. In this connection, a verse from *Acharya Vagbhata* [19] is important *-Pandvamaye Shreshtha*.

Various forms of drugs which have been used in the treatment of *Pandu* **in Ayurvedic texts:** In the treatment of *Pandu*, single drug or a combination of two or more drugs have been used. A description is given as:

- 1. Single drugs which have been used in *Pandu* are *Lauha Bhasma, Mandura Bhasma, Pure Kaseesa, Shilajita, Vardhamana Pippali* etc.
- 2. Compound drugs which are of vegetable origin e.g. *Triphala, Phalatrikadi Kwatha, Punarnavashtaka Kwatha, Vidangavaleha* etc.
- 3. Drug which are a combination of vegetable origin and animal origin e.g. *Mahatiktaka Ghrita, Pathya Ghrita, Rajani Ghrita, Gomutraharitaki* etc.
- 4. Drugs which are a combination of vegetable and mineral origin e.g. Yogaraja, Shilajatvadi Vati, Navayasa Lauha, Mandura Vataka, Punrnavadi Mundura.
- 5. Asava and Arishta e.g. Lauhasava, Punarnavasava etc. In brief the Panduhara Yogas are described in various forms such as Churna, Vati, Asava, Arishta, Avaleha, Ghrita.

III. Pathya- Apathya

This includes diet and environmental factors which should be regulated according to the need of the body.

(A) *Pathya* - (Measures which are beneficial to the patients of *Pandu*)

Acharya Sushruta has mentioned the use of drink containing juice of Amalaki, Ikshurasa, salt and honey [20]. Similarly, vegetables and fruits which are beneficial in Pandu have also been mentioned in Bhaishajya Ratnavali. They are Patola, Guduchi, Leaves of Chaulai and Punarnava. Pakva Amalaka, Kharjura, Rasona, Palandu etc. are beneficial in Panduroga.

(B) Apathya - (Measures that aggravate the disease)

All those measures should be avoided which aggravate the disease. The various measures which are responsible for the development of *Panduroga* have been described previously.

DISCUSSION

Causative factors of *Pandu* are widely described in *Samhitas*. According to *Acharya Sushruta* [21] *Rakta* gets vitiated by *Diwasvapa*, *Viruddha Bhojana* and *Krodha*. He

has also mentioned that Krodha, Shoka, Bhava, Vidaadha Anna Sevana, Ati Maithuna and Tila Tail and Pinyaka leads to vitiation of Pitta Dosha^[22]. Ativyayama, Ratrijagarana, Nidranasha, Ativvavava Adhyagamana leads to Vata Prakopa [23]. Acharva Charaka has mentioned *Pandu Roga* [24] caused by suppression of Chhardi, Vegavarodha, Viruddha Anna Sevena and of excessive use of Ati Amla and Lavana Rasa [25]. Here a question may arise that how the psychological factors can affect Dhatuposhana which ultimately results in Pandu? In this context one should remember that Acharva Charaka [26] has emphasised bad effect of Chinta, Bhaya, etc. on digestion. All these causes improper digestion of food which leads to improper Rasa Dhatu formation and further hamper Rakta Dhatu, Mamsa Dhatu formation and so on and thus leads to Pandu Roga. *Nidanarthakara Roga* also play important role as cause of Panduroga according to various classical texts. Diseases Raktakshaya, Raktatipravartana, like Raktarbuda. Raktarsha, Raktapradara, Yakritaplihavedha condition are directly or indirectly related with Rakta Dhatu Kshaya which further results in all Dhatu Kshaya. While Punaravartaka Jwara Grahani, Jeernajwara, Shotha, Udararoga, Rajyakshma etc. involving vitiation of Agni and Ama production, which in next step obstructs the Dhatuvaha Srotas which leads to disturbance in Dhatuposhan Krama and ultimately produces Pandu, Also Acharya Charaka has mentioned Pandu as a Santarpanoththa Vikara [27], for which Samprapti may be same as described above. Only difference is, in this case obstructing factor may be Kapha as it is related with Santarpana.

The features described as *Purvarupa* of the disease are some of the general feature itself as *Hridspandana* (palpitation), *Shrama* (fatigue), *Angasada* and *Gatrasada* (weakness). Some *Purvarupas* are related to features of digestive system or *Agni* as *Avipaka*, *Aruchi*, *Alpavahnita*, *Vidamutrapitata* etc., indicating that *Agni* is getting disturbed here and production of *Mala Swarupa Pitta* is increasing here resulting in the increased yellow coloration of urine and stool. *Raukshya* and *Twaksphutita* are the features of *Raktakshaya* which are developing here. There is vitiation of *Agni* resulting in features of *Mandagni* and decreased production of *Rakta Dhatu* with increased production of *Mala-Pitta*. *Shthivanadhikya* is a feature described in the manifestation of *Ama*.

Mridabhakshana is also the aetiology of the disease and viewing it is an individual could well forecast the future development of worm and anaemia is an individual. This is also a symptom found present in iron deficiency anaemia as pica or unusual cravings for eatables. Sweda-abhava is feature which interpreted by commentators as Vyadhiprabhava, meaning the effect of disease itself. In Rupavastha, there is also the simultaneous involvement of other Dhatus of the body resulting in their decline in quality as well as quantity wise. It is appealing to note that though the disease is Pitta predominance, the features developing also here includes Shishira Dwesha which is neither a features of Raktakshya or Pitta Vriddhi.

Acharya Sushruta has classified Panduroga in 4 varieties but Acharya Charaka has mentioned one additional variety of Panduroga that is Mrida Bhakshanjanya Pandu.

Acharya Sushruta has mentioned that Pandu Bhava is caused by vitiation of Twaka through the vitiated Rakta in one who indulgence in Ahita Ahara Vihara.[28] Acharya Vagbhatta has mentioned the Samprapati given by Acharya Charaka. Thus the pathology of Panduroga is mainly concerned with vitiation of *Pitta* which in turn vitiates the *Rakta*, leading to condition of *Pandubhava*. So. *Pitta* being main factor in the causation of *Panduroga*, all the fivefold functions of it are affected more or less, but as the main seat of the disorganization is the *Rakta* and complexion of body, the Ranjana and Bhrajan function of Pitta is to bear the brunt. Thus Pitta Dosha takes leading part in the production of *Dhatushaithilva* and *Dhatuaaurava*. This leads to Balakshaya, Varnakshaya and Ojakshaya. Ultimately, the Panduroga is stated to be afflicted with Raktalpata, Medalpata, Nihsarata, Vivarnata Shithilendriyata. It has also been stated that Santarpana which broadly means anabolism, brings about an increase in Kapha and Ama production which leads to Mandagni and change in complexion of body i.e., Panduta. Vitiation of Kapha Dosha is responsible for Gaurava, Nidraluta, Mandagni, Alasya, Alpavaka. The symptoms such as Aruchi, Jwara, Panduta, Gaurava and Tandra are indicative of Rasa Dhatu Dushti, Angamarda indicates the involvement of both Rasa and Rakta Dhatu. Karshya is indicative of Mamsa Dhatu Dushti. Atisveda and Svedabhava are suggestive of involvement of Twaka, Mamsa Dhatu and Medo Dhatu. Shirnalomata is an important indicative of Asthidhatu Dushti. The loss of lustre and debility are suggestive of depletion of *Oja*.

Clinical presentation of *Pandu* can be correlated with anaemia of modern medical science. Anaemia is without blood/ pallor of the body. It is the most under diagnosed condition. If left untreated, it leads to many serious complications like CVD, compromised immune disease. [29]

Nidanaparivarjana is the best treatment for any disease. This principle also can be applied in the *Pandu* which will be the first step in the treatment of disease. Further as per condition of *Doshas*, treatment should be applied.[30] As mentioned in the early pages of disease part, Pandu is a Pitta predominant Tridoshaja Vyadhi. Chief pathogenesis taking place during Samprapti is Srotorodha which generates disturbance in Dhatuposhana and lastly Dhatukshaya. To correct obstruction of Srotas, Shodhana is indicated in Samhitas. It should be Tikshna and Snigdha. [31] For ignition of Jatharagni as well as Dhatvagnis, Ghrita is believed as one of the best remedy and this is why various kind of *Ghritas* have been described in the treatment of Pandu. Ghrita is Jivaniya and Rasayana too which helps in Dhatukshaya. As the disease is closely related with decrease of Rakta, many Lauha preparations also are described in the management of Pandu. All these treatment modalities correct metabolism and stimulates Dhatuposhana.

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