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A CRITICAL REVIEW ON PANDU AND ITS MANAGEMENT

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ABSTRACT

The struggle between man and disease is immortal from the *vedic* time about 5000 BC. *Pandu* is one of the disease whose references found from the *vedic* period as in *Rigveda* and *Atharthaveda* it is known by *Vilohit*, *Haribha* and *Halima*. *Pandu vyadhi* is described in classical texts of *Ayurveda* as symptom, complication of disease or as sign of certain disease. A prominent diagnostic feature of *Pandu roga* is the pallor on the skin. Considering *Panduta* (pallor) as the predominant sign, the disease is termed as *Pandu roga*. The clinical condition of *Pandu roga* in *Ayurveda* shows resemblance with the anaemia in modern science. Anaemia is a major global public health problem because of its high prevalence and affecting millions of people. It mainly occurs due to nutritional deficiency. Malnutrition and improper diet cause decrease in *Rakta dhatu*, *Shonita kshaya* produces roughness of skin, craving or desire for sour and cold things, looseness of veins. This article discusses Anaemia (*Pandu*) from *ayurvedic* point of view.

INTRODUCTION

Ayurveda is the oldest system of healing and provides service to mankind in which body physiology is too much emphasized to understand the aetiology and pathogenesis of disease, so that best treatment can be searched out for the benefit of humanity. According to Ayurvedic literature, the skin color in Pandu roga as 'ketaki dhuli sannibhama' and 'bheka varna'. Acharya Charak considered Pandu as pitta predominant disease and Rasa pradoshaja vikara and Acharya Sushruta considered as Rakta pradoshaja vikara. Pandu roga mainly occurs due to the quantitative and qualitative deficiency of Rakta dhatu caused either in the form of deficiency of haemoglobin or red blood cells. As per Ayurveda, "Rakta dhatu is the second dhatu and is derived from the "Prasada Bhaga" of Rasa dhatu. It is formed when the "Rasa dhatu" reaches the Yakrit and Pleeha, where it is acted upon by "Ranjaka pitta" which gives its red color, essentially transforming the Rasa dhatu into Rakta dhatu through a process called "Ranjana karma"; this process is facilitated by digestive fire present in these organs. Even in the embroyonic life, Rakta dhatu plays important role in the formation of Yakrit (liver), Pleeha (Spleen), phuphphusa (Lungs), Unduka (colon), vrikka (kidney), vrishna (Testis) and hridaya (heart). In other classical texts of Ayurveda, few additional information regarding Pandu roga is found which is distinct from the view of Acharya charak.

AIMS AND OBJECTIVES

To review concept of Pandu roga from different Ayurvedic literature.

MATERIAL AND METHODS

- 1. Classical text books of Ayurveda.
- 2. Text book of modern science.
- 3. Previously published research article.

HISTORICAL REVIEW

पित्तेन िाण्डुना वापि धुम धमारुिन वा। पवपिर्यता महाभ्रेण महता चानुि गुणा ॥ (अथवयवेद िरिपिष्ट 58.ख.25)

लोहचुणय तिकीतं िाण्डु िोगहिं भवेत् । (इपत गारुडे)

According to *Rigveda* and *Atharvaveda*, *Panduroga* is known as *Vilohit*, *Haribha*, *Halima*. In *Garuda Purana* it has been described that *Takra* mixed with *loha churna* is useful in *Pandu roga*.

Acharya *charak* has described *Pandu roga* in *sutra sathana* in *Ashtodariya Adhayaya* as well as in *Chikitsa sthana* 16th chapter "*Pandu Roga Chikitsa*".

Acharya Sushruta mentioned Pandu Roga in Uttartantra "Pandu Adhyaya" 44th chapter.

Ashtanga Sangraha mentioned "Pandu Roga" in Nidana sthana in 13th adhyaya and in Chikitsa sthana in 18th

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chapter.

Acharya Vagbhatta has described Pandu in Nidanasthana 13th chapter and in chikitsa sathan chapter 16th

Madhav Nidana has described Pandu Roga in 8th Adhyaya 'Pandu Roga''

Sharangdhara Samhita has described "Pandu roga" in Pradhana Khanda 7th Adhyaya.

Bhavprakasha has given the description of "Pandu roga" in Madhyam Khanda 8th Adhyaya.

Harita Samhita has described "Pandu roga" in 3rd sthana 8th Adhyaya.

Chakradatta has also described chapter 8th on "Treatment of Pandu roga".

In Rasendra sara sangraha in 2nd chapter "Treatment of Pandu and Kamala Roga" has been mentioned.

REVIEW OF LITERATURE

Vyutpati of Pandu

According to *Shabdakalpadruma*- Part 3, the word *Pandu* is derived from root "*Padi Nasane*" with suffix "*Ku*" and elaboration through "*Ni*". The meaning is always taken in sense of "*Nashana*" i.e. loss.

Nirukti of Pandu

According to *Vachaspatyam* (part 5) '*Pandustu peetbhagardhm ketaki dhulisannibham*' means *Pandu* is like colour of pollen grains of *ketaki* flower which is whitish yellow.

Definition of Pandu

Sarveshu chaiteshvih Pandubhavo Yatoadhikoatah khalu Pandurogah (Su. Ut.44/4) It is called Pandu roga because of predominance of paleness all over body.

Synonyms of Pandu

In *Sushruta Samhita*, it is called variously as *kamala*, *panaki*, *panduroga*, *kumbha*, *lagharaka* and *alasa*. In *Rigveda and Atharvaveda*, it has been described by name of *Vilohita*. *Halima* and *Haribha*.

Nidana of Pandu

क्षािाम्ललवणात्रुष्णपवरुद्धासात्म्ओजनात् । पनष्र्ावमावपिण्राकपतलतैलपनषेवणात् ॥७॥ पवदग्धेऽन्ने पदवास्वप्नाद्र्ारामान्मैथ्नात्तथा ।

प्रपतकमयत्यवैषम्ादवेगानां च पवधािणात् ॥८॥

कामपचन्ताभर्कोधोकोिहतचेतसः । (ch.chi.16/7-9)

Aaharaja Nidana

- Consumption of alkaline, sour, salty, too hot, incompatible and unsuitable food.
- Exceesive use of *nispava*, *Masha*, *pinyaka*, *tila taila* and *vidagdha anna*.

Viharaja Nidana

Day-time sleep (*divaswapna*), exercise (*vyayama*) and sexual intercourse (*Maithuna*) during burning (indigestion) of food, faulty management of evacuative (*Panchkarma*) measures and seasons regimen; suppression of natural urges. (*vega dharana*).

Mansika nidana

Persons suffering from anxiety, fear, anger and grief have a major role in Pandu roga.

Nidanarthaka roga

There are various disease mentioned in *ayurvedic* literature which occurs as *poorvarupa*, symptom or as *updrava*, these are called as *nidanarthakar rogas* of *pandu*. E.g. *Rakta arsha*, *Rakta pitta*, *shotha*, *grahani*, *rakta arbuda*, *kamala*, *ashmari* etc.

Poorvarupa

varupa				
Charaka	Sushruta and Bhavprakash	Vagbhatta	Harita	
Hridhyaspandan (palpitation of heart)	Twakasphotana (cracking of skin)	Hridhyaspandan (palpitation of heart)	Akshi- Kutashotha (orbit swelling)	
Rukshyam (Roughness)	Shithivana (spitting) Gatrasada (malaise) Mridbhakshan prekshan (liking for earth eating)	Rukshta (Roughness) Aruchi (poor digestion)	Sharira pandu varna (paleness)	
Swedaabhava (absence of sweat)	Kutashotha (orbit swelling) Veenmutrapeetatav (yellowish faeces and urine)	Peetamutra(yellow urine) Swedaabhava (absence of sweat)	Peetamutra (yellow urine) Nishithivana (spitting)	
Shramasthata (Exhaustion)	Avipaka (indigestion)	Alpavihinta (weakness on exertion)	Rukshta (Roughness)	

Samprapti Samanya samprapti

Person in whom pitta pradhan tridosha vitiates Rasa and rakta dhatu affecting laxity of dhatus and heaviness in

body. Bala, varna, Sneha and other properties also get too much diminished due to morbidity of dosha and dushya. As a result, deficiency of blood, fat, ojas,

looseness of body parts and abnormality of complexion occurs.

Vishishta samprapti

Nidana sevana
↓
Pitta Pradhan tridosha prakopa
↓
Twacha and mamsa Madhya sathansamsraya
↓
Kapha, vata, rakta, mamsa dushti
↓
Twacha pandura varna occurs
↓
Pandu roga (Anaemia)

Samprapti Ghataka

Dosha: Pitta Pradhan tridosha prakopa Dushya: Rasa, Rakta, twacha and mamsa

Srotas : Rasavaha, Raktavaha Sroto dushti prakara: Sanga Adhisthana: Sarv Sharirgata twacha

Ashaya: Amasaya

Agni : Dhatu agni mandhya Vyadhi saubhava : Chirkari

Sadhya- Asadhyta : Sadhya/ Kricha sadhya

Types of Pandu

Acharya	No. of pandu	Types of Pandu
Charaka	5	Vataja Pittaja Kaphaja Sannipataja, Mritbhakshan janya
Sushruta	4	Vataja Pittaja Kaphaja, Sannipataja
Vagbhatta	5	Vataja Pittaja Kaphaja Sannipataja Mrittika bhakshan janya
Bhavprakash	5	Vataja Pittaja Kaphaja Sannipataja, Mrtbhaksanaja pandu
Harita	5	Vataja Pittaja Kaphaja Tridoshaja Mrittika bhakshan

Acharya Harita, considered 8 types of pandu roga, he included kamala, halimaka and panaki.

Samanya Lakshanas According to *Charaka*

Twacha pandu varna (pallor of skin); Alpa rakta (scanty blood); Alpa medasvita (fat/marrow deficiency); Nisarta (loss of glow); Shaithila indriya (sensory blurring);

Karnasweda (tinnitus); Daurbalta (weakness); Agnimandya (indigestion); Aruchi (anorexia); Thakavat (fatigue); Brahma (vertigo); Jwara (fever); Shwasa (exertional dyspnoea); Akshikuta shotha (swelling around eyes); Shernaloma (fall of hair); Shishirdewashi (avertion to cold); Atinidra (excessive sleep); Shithivan (excessive salivation); Alpa vaak (feeble speech); Pindiko udhveshtana (cramps in calf region)

Type of pandu	Charaka	Sushruta	Vagbhatta	Bhavprakasha	Harita
Vataja pandu	Blackish/p aleness, roughnes s and reddishne ss in body, bodyache, piercing pain, trembling pain, pain in sides and head, dryness of stool, distaste in mouth, oedema, hardness in bowels and debility.	Blackish eyes, promin ent blackish veins and faeces, urine, nails and face of black colour.	Bodyache, piercing pain and tremor, blackish-red and lusterless discoloration of veins, nails, faeces, urine and eyes, swelling, flatulence, bad taste in mouth, dryness of faeces and pain in flanks and hand.	Dryness of skin, black or red colour of skin, urine, eyes etc. tremors, pricking pain, flatulence, giddiness	Pain, dryness, heaviness in head, yellow discolorat ion of skin, urine, eyes, nails.
Pittaja pandu	Yellow/ greenish tinge, fever, burning sensation, vomiting, fainting, thirst and yellow urine and stool, desires for cold and aversion of food, pungent mouth, foul odour, loose motions, debility and feeling of darkness.	Yellowis heyes, yellowis h veins, faeces, urine, nails and face of yellow colour.	Green or yellowish colour veins, fever, unconsciousness, thirst, perspiration, fainting, desire for cold things, bad smellof body and mouth, bitter taste, loose bowels, acidity and feeling of burning sensation.	Yellow discoloration of skin, urine, faeces, nailsand eyes, feeling of burning sensation, thirst, fever, loose bowels	Yellow discoloration, swelling, pungent mouthtaste, thirst, mild fever.
Kaphaj a	Heaviness, drowsines,	Whitish eyes,	White colour of veins,	Excess	Cough, lethargy

pandu	vomiting, whitish complexi on, exceesive salivation, horripilate on, malaise, fainting, giddiness, exhaustion, dyspnoea, cough, lassitude, anorexia, obstructio n in speech and voice, white urine, eyes and stool, desire for pungent, rough and hot things, oedema and sweetnes s in mouth	white veins; faeces, urine, n ails and face of white colour.	stupor, salty taste in the mouth, horripila tion, loss of voice, coughand vomiting.	salivation,oed ema,stupor, lassitude, feeling of heaviness of body, white colouration of skin, eyes, urine,face etc	swelling,s weating, heaviness
Sannip ataja pandu	Exhibiting symptom s of all 3 doshas	Exhibiting symptom ms of all 3 doshas	Presence of symptoms of all 3 doshas will be seen.	Presence of symptoms of all 3 doshas will be seen.	Lethargy, swelling, vomiting, cough, loose stools, fever, thirst, loss of appetite, tiredness
Mritbh akshan	Strength, complexi	_	Swelling of umbilicus, feet,	Yellowish-white colour,	Strength, complexi
janya pandu	on and power of digestion, patient suffers from swelling on cheeks, orbit and eyebrows, feet, navel and private parts, intestinal parasites and diarrhoea passing stool with blood and mucus		face and genitals and removing faces containing worms mixed with blood and mucus.	stupor, lassitude, cough, dyspnoea, abdominal pain, loss of taste/appetite, oedema around eyes, cheeks, eyebrows, legs, umbilicus and genitals, diarrhoea expelling worms, faeces mixed with blood and kapha(mucus).	on and digestion decreases.

Sadhya- Asadhyata According to Charak

- Patient who has *Pandu roga* from long duration or who has exceesive roughness is not curable.
- Patient developing oedema and having vision of objects as yellow is not treatable.
- The disease is also incurable if the patient passes scabulous, scanty stool with mucus and green colour, who has anxious expression, white and excessively smeared limbs, suffers from vomiting, fainting and thirst and if he becomes white due to blood deficiency.

According to Sushruta

- Patient who has swelling in end parts and thinned in the middle and vice versa.
- Patient who has swelling in anus, penis and scrotum, gets fainted and almost unconscious and suffers from diarrhoea and fever.

According to Bhavaprakasha

 Patient of panduroga (anaemia) is to be refused treatment who is having fever, loss of taste, nausea, vomiting, thirst, exhaustion, emaciation loss of sensory function and the disease is produced by all

- the three doshas. *Panduroga* which has become *khara* (made all *dhatus*/tissues very dry) lose oilness by remaining for a long time, given rise to swelling the body parts, of him, who sees all things as yellow only should be refused.
- Patient of *panduroga* who has diarrhoea and eliminates faeces which is hard, small in quantity and mixed with *Kapha* (mucus), who is timid, body full of sweat, suffers from more of vomiting, fainting, and thirst, whose teeth (gums), nails and eyes have become very pale who sees all things as yellowish white masses, is going to die.
- Patient who has swelling in the extremities and emaciation in the middle (trunk) or has swelling in the rectum, face, penis, scrotum; who has frequent fainting and unconsciousness who suffers from severe diarrhoea and fever.

UPDRAVA

According to Sushruta

Complications of *Pandu roga* such as *Shwasa* (dpsynoea), *Atisara* (diarrhoea), *Aruchi* (Anorexia), *Kasa* (Cough), *Murrcha* (Fainting), *Trishna* (Thirst), *Chardi* (vomiting), *shoola* (Abdominal pain), *jawara* (fever),

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shopha (oedema), daha (burning sensation), bhojana apachana (Indigestion), swarabheda (hoarseness of voice) and sada (Malaise).

Chikitsa

तत्र पाण्ड्वामयी स्निग्धनतीक्ष्णैरुवााि्लोस्मकैैः ।

According to *Acharya Charaka*, patient of *sadhya pandu roga* after unction should be subjected to strong emesis and purgation.

For unction, *Panchgavya Ghrita*, *Mahatikta* or *kalyanaka ghrita* should be given.

For purgation, give milk mixed with cows urine or singly in profuse quantity.

In warm decoction of *danti* fruits hot infusion of *kasmarya* or grape fruits should be given.

In paittik pandu, trivrit powder mixed with sugar in double quantity should be given and in kaphaj pandu

haritaki fruit dipped in cows urine should be given. वापतके स्नेहंभपूर्ण, िंपत्तके पतक्तिीतलम् ॥

श्लैपष्मके कट्पतक्तोष्णं, पवपमश्र सापन्नािपतके ।(ch.chi 16/116)

Hetu viparita chikitsa karma in Pandu as follows

Vataja pandu -sneha pradhan aushadha

Pittaja pandu- tikta rasa and sheeta veerya aushada Kaphaja pandu- katu, tikta rasa and ushna veerya aushada Tridoshaj pandu- mixed dravya

Mrittikabhakshanjanya pandu:- The physician should first eliminate the ingested mrittika out of the body by administering strong evacuative

according to strength of patient or if the patient doesn't desist from eating *mrittika* then *mrittika* should be given to patient after impregnated with drugs like *vidanga*, *nimba* leaves, *ativisha* etc. which destroy its harmful effects.

Some yogas used in Pandu roga mentioned in different samhitas

Charaka	Sushruta	Vagbhata	chakradat ta	Bhavprak asha	Harita	Rasendra sara sangraha
Vishaladi phanta Swarnasheer yadi yoga Gomutra haritaki Loha bhasma	Ayorajovyosh adhya avheha Brihatyadi Ghritam Yashti kwatha churna prayoga	Draksha leha Hrisvapanch mula kwatha Dadimadi ghrita Mandura vataka	Phalatrika di kwatha Ayastiladi modaka Ayomala (Mandura) prayoga Navayasa lauha	Punarnav adi Mandura Navayasa churna Phaltrikadi kwatha Mandura vataka	Loha churna vati Shunthiyadi mishrit loha churna Manduk vati Vajramandu k vataka	Panchan anan vati Kameshw ara rasa Sudana rasa Mandurv ajra vataka
Navayasa churna Mandura bhasma Mandura vataka Swarnamaks hikadi yoga Yogaraja Shilajatu vataka Punarnava mandura Darvayadi leha Dhatriyaavleha Mandur vataka Godo Arishta Bejakaarisht a Dhatreyadi arishta	Triphaladi churna Ajashakradi churnam Manduradi Prayoga Vibhitakadi kwatha Sauvarchalad i yoga Balashigru yoga Nyagrodhadi varga kwatha Vidanga avleha	Vyoshadi churna Svarnaksiria dika panadi Phaltrikadi kwatha Tapyadi Ghutika	Yogaraja Visaladi churna Lohapatra srita ksheera Darvyadi loha Mandura prayoga Vidangadi lauha Triushana di mandura Punarnav adi mandura Mandura vajra vataka Dhatryaris hta Draksha Ghrita Murvadya Ghrita Vyosadya ghrita	Astadasa nga loha	Amrita vataka	Laghvana nda rasa

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Pathya- Apathya Pathya

Shali- shashtik rice, Yava (Barley), Godhuma (Wheat), soup of meat of animals of desert like lands (jangala mamsa rasa), Mudga (green gram), Adhaki (Tur dhal), Masura (Lentil).

According to Acharya Susruta

- Pandu Rogi must use Arishta prepared from Guda, Sharkara (sugar) and Shahad (honey) Abhayaarishta and Madhayasaya
- Asava prepared from Mutra and Kshara should be
- Jangala Mamsa Rasa added with Sneha (fat) and Amalaka Swaras should be used

In Harita Samhita, Arjuna (patra), Vastuka, Shatpusha shaka sevan also mentioned.

Apathya

Bhaishajya Ratanavali

Apathya Aahara are mentioned

- Rakta Sruti, Dhoompan, Vaman Vega Dharan, Swedan and Maithoon are to be avoided by Pandu
- Avoid consumption of Shimbi, Patrashaak, Ramath, Masha, Ambupaan, Pindyaak, Tambul, Sarshapa, and Sura.
- Intake of water of rivers like those originating from Vindhya and Sahyadri
- Mountain.
- All types of salt, sour edibles, Virudhha Anna (incompatible foods), food that is Guru (heavy to digest) and Vidahi (cause a burning sensation).

According to Harita samhita

Tila, Ruksha, Katu, Dahatamaka, Kanji, Sura, Amla, Souvrika, Beejapuraka taila

DISCUSSION AND CONCLUSION

Causative factors of Pandu are widely described in samhitas. According to ayurveda, nidanas of pandu are Diwasvapa, Viruddha Bhajana and Krodha leads to vitiation of Pitta dosha. Ativyavaya and ati adhvagamana leads to vata prakopa. Vitiation of dosha can lead to improper Rasa dhatu formation and so on and thus leads to Pandu roga. Mridabhakshana is also the aetiology of the disease. Nidanaarthakar rogas of pandu can directly or indirectly leads to Rakta kshaya and produces pandu. The features described as poorvarupa of Pandu are Hridspandana (palpitation), shrama (fatigue), Angasada and Gatrasada(weakness). The pathology of Pandu roga is mainly concerned with vitiation of pitta which in turn vitiates Rakta as mala of Rakta dhatu is pitta leading to condition of Pandubhava. Thus, pitta dosha takes leading part in production of Dhatushaithilya and Dhatugaurava and in turn causes balakshaya, varnakshaya and Ojakshaya. Symptoms of Pandu will be aruchi, jwara, panduta, gaurava, tandara etc. The clinical presentation of Pandu can be correlated with

anaemia. If left untreated it can further leads to complications like heart failure, angina, arrhythmias, cognitive impairment renal and failure. Nidanaparivarjana is the best treatment for any disease and to correct obstruction in srotas shodana is indicated. For agni dearrangement, various ghrita preparations are indicated in samhitas and it also helps in dhatu poshana. As rakta kshaya is occurring various loha preparations are also given in classical texts for management of pandu which will correct metabolism and stimulates dhatuposhana.

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