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ROLE OF PRATHAMA TRIPHALA RASAYANA IN THE MANAGEMENT OF MUTRAGHATA W.S.R.T CHRONIC KIDNEY DISEASE (CKD)

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ABSTRACT

Chronic kidney disease (CKD) is the 16th leading cause of years of life lost worldwide. CKD affects 8% to 16% of the population worldwide. In developed countries, CKD is most commonly attributed to diabetes and hypertension. CKD is considered when glomerular filtration rate (GFR) falls below 90ml/min. In Ayurveda it can be correlated with Mutraghata belonging to pathology of Mutravaha srotasa. The conventional approach of management includes Dialysis and Renal Replacement Therapy (RRT) which are not reasonable by Indian Populations due to economic status. Therefore, it is need of era to find out supportive, rejuvenating treatment for such patients to banish the toxins from the body. Prathama Triphala Rasayana contains Survary Haritaki, Amalaki, and Vibhitaki. It is anulomaka, dhatu vardhaka acts on pakwashaya, and regulates Apana vayu. The present article takes review of study of Prathama Triphala Rasayana therapy in the light of Mutraghata.

KEYWORDS: Mutraghata, Mutravaha srotasa, Prathama Triphala Rasayana, CKD.

INTRODUCTION

Chronic kidney disease (CKD) is a syndrome characterized progressive and irreversible deterioration of renal function due to slow destruction of renal parenchymal, eventually terminating in death when sufficient numbers of nephrons have been damaged over a period of months or years. It is also called as Chronic Renal Failure (CRF). It is an internationally recognized public health problem affecting 5-10% of world population.^[1] Generally signs and symptoms of renal disease are often non-specific. The signs and symptoms may appear at the stage of irreversible damage, which include nausea, vomiting, anorexia, sleep problems, changes in urine output, decreased mental sharpness, muscle twitches, cramps, hiccups, anasarca, persistent itching, shortness of breath, fatigue & weakness etc. Often, it is diagnosed as a result of high blood pressure or diabetes and those with a blood relative with renal disorders. It is considered as long term form of kidney disease and is differentiated from acute kidney disease in that the reduction in kidney function must be present for over 3 months. [2] According to Ayurveda it can be correlated with Mutraghata belonging to pathology of Mutravaha srotasa. Mutraghata is one of the most common and distressing disease among the group of urinary disorder. For easy to understand, the 12 types of Mutraghata are being classified into three categories. The first category is based on the neurogenic disturbances of the bladder and the types that can be included under this are - Vatakundalika, Vatabasti and Mutraiathara. The second category symptomatology of obstructed flow of urine, increased frequency of urination, sense of incomplete voiding etc. includes Bastikundalika, Mutragranthi, Mutrotsarga and Ashteela types. The third category is termed as 'Others', where the types included are Mutrakshaya (Anuria), Ushnavata (Hematuria), Mutroukasada (Abnormal colorization of urine), Vidvighata (faecum passed per uretherum) & Mutrashukra (Retrograde flow of semen). Mutraghata is a condition in consequence with some kind of Obstructive Uropathy either mechanical or functional, related either to upper or lower urinary tract resulting in to either partial or complete retention of urine as well as Oliguria or Anuria. [3]

Classical view of Mutraghata

Normal functions of *Mutravaha srotasa* (urinary system) is regulated by Apana vayu one among the five types of Vavu. Any derangement in Apana vavu leads to the pathology of the urinary system. So, the treatment principle is to correct the vitiated Apana Vayu, thereby attaining the normal physiology of the urinary system.

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This controls the symptoms of the *Mutravaha Srotasa*. Acharya Charaka has mentioned eight types in Sutrasthana. [4] Further, in Siddhisthana, thirteen types of Basti rogas have been described under the heading of 'Mutradosha'. [5] Acharya Sushruta has explained twelve types of Mutraghata in Uttaratantra but in spite of Bastikundalika and Vidvighata varieties as described in Charaka. Sushruta has described the two type of Mutroukasada i.e. Pittaja & Kaphaja while Charaka & *Vagbhata* described only one type i.e. *Mutroukasada*. ^[6] Ashtanga Sangraha & Ashtanga Hridaya, includes Mutrakricchra and Ashmari rogas. Acharya Vagbhata has categorized the diseases of Mutravaha Srotasa into two types i.e. Mutra Atipravrittijanya and Mutra Apravrittijanya Rogas.^[7] Mutra vegavarodha is mentioned as one of the most important causative factor in Mutraghata. It is but clear that the Apana vayu is responsible for normal voiding of urine, if deranged by voluntary suppression of urge of micturition which results in Mutraghata.[8]

Pathology of Mutraghata

The pathogenesis of kidney diseases is not separately mentioned. It can be included in *Prameha*, *Mootra dosha*, *Mootra kriccha*, *vankshana aghata*, *Ashmari* and *Shotha* etc. In *Charaka Samhita*, described that kidney and bladder are the root of the channels carrying urine and fat, *mamsa* and liquid *dhatus* of the body. The vitiated *doshas* while coming in contact with the opening of these channels obstruct them. This result in the manifestation of kidney disease. While become chronic or incurable due to the affection of all the qualities of *Doshas* and also due to the simultaneous vitiation of *dhatus*. [9] The *Basti*, *Hridaya* and *Shiras* are the three

vital points as the Prana recedes in them. Any affliction of these leads to vitiation of Vata prakopa and may be fatal to life. [10] The natural action of *Vata* moving from one bodily organ to another are the manifestation of looseness, dislocation, expansion, obstruction, circular movement, piercing pain etc. These are the actions which help the physician to diagnose a disease as predominated by Vata. [11] Acharya Sushruta says that the vitiated Vata lodged in the Basti and Guda leads to severe diseases. Acharya Dalhana, while commenting on the same says action of vitiated Apana Vayu being located in the Medhra Dvara is emphasized. Thus from all the above references it becomes clear that it is the 'Vata' which is mainly responsible for the manifestation of Basti disorders. This 'Vayu' may be triggered either by endogenous or exogenous factors. [12] Mutra vegavarodha is one such factor, which leads to vitiation of Vata. This act of suppression has to be present over a long period of time in a person to bring about the vitiation Vata to the extent that it manifests in Mutraghata.

Concept of Prathama Triphala Rasayana

As per Charakacharya, Prathama Triphala Rasayana contains Survary Haritaki, Amalaki, and Vibhitaki in 1:2:4 respectively i.e. one Survary Haritaki is given in the morning empty stomach, two Vibhitaki is given before meal and four Amalaki is given after meal with honey and ghee. Here Charakacharya has mentioned this does in the form of phala or fruit, since the size and weight of every fruit of triphala differs. Therefore standardization of dose is necessary; so as to standardize, the phala portion are converted it into its churna form. So that equal dose of this rasayana churna can be given to the patients [Table 1].

Table 1: Standardization Dose of Prathama Triphala Rasayana. [14]

Sr. No.	Prathama Triphala Rasayana	Fruit parts in (1:2:4)	Obtained dosage of <i>Churna</i> in gms
1.	Survary Haritaki	1	5 gms
2.	Vibhitaki	2	4.8 gms
3.	Amalaki	4	5.2 gms

Table 2: Pharmacological view of Prathama Triphala Rasayana. [15]

Contents	Haritaki	Vibhitaki	Amalaki
Latin name	Terminalia chebula	Terminalia belerica	Emblica officinalis
Family	Combretaceae	Combretaceae	Euphorbiaceae
	Sushruta- Amalakyadi,	Sushruta- Mustadi,	Sushruta- Amalakyadi, Parushakadi,
Classical views	Parushakadi, Triphala	Triphala	Triphala
	Vagbhata- Parushakadi	Vagbhata- Mustadi	Vagbhata- Parushakadi
Vernacular names	Sanskrit- Haritaki, Pathya, Abhaya, Avyatha, Vayastha, Haimavati, Shiva, Amrta, Kayastha, Vijaya, Jaya Hindi- Harre, Harad English- Chebulic Myrobalan	Sanskrit- Aksha, Kaliphala, Bhutavasa, Kalidruma, Karsaphala Hindi- Bahera English- Belleric Myrobalan	Sanskrit- Amalaki, Dhatri, Vyastha, Abhaya, Amrta, Vayasya, Vrshya, Tisyaphala, Sitaphala. Hindi- Awala, Amla, Aonla English- Indian gooseberry
Swaroopa	Moderate sized/ large deciduous tree	Large deciduous tree	Medium sized tree
Ayurvedic	Rasa- Pancharasa	Rasa- Kashaya	Rasa- Pancharasa (Amlarasa

Pharmacodynamics	(Kashayarasa pradhana,	Guna- Laghu, Ruksha	pradhana, Lavana rahita)
	Lavana rahita)	Virya- Ushna	Guna- Laghu, Ruksha, Sheeta
	Guna-Laghu, Ruksha	Vipaka- Madhura	Virya- Sheeta
	Virya- Ushna	Prabhava- Tridoshaghna	Vipaka- Madhura
	Vipaka- Madhura		Prabhava- Rasayana
	Prabhava- Tridoshahara		
Doshagnta	Kapha-Pittashamaka	Kaphahara	Tridoshahara, Pittashamaka(mainly)
	Fruits- anthraquinone	Fruits- fructose, galactose,	Fruits- Vit. C, phyllemblin, linoleic
	glycoside, chebulinic acid,	glucose, mannitol,	acid, indole acetic acid, ayxubsm
	tannic acid, terchebin, Vit.	rhamnose, beta- sitosterol	trigaloyglucose, terchebin, corilagin,
Chemical	C.	Seed- edible oil	ellagic acid, phyllembic acid & salts.
Constituents	Fruit kernel- arachidic,	Seed-coat- gallic acid	Roots- ellagic acid, lupeol, oleanolic
	behenic, lindeic, oleic,	Bark & heartwood-	aldehyde.
	palmitic & stearic acids.	chebulagic acid, ellagic	Bark- leucodelphinidin, procyanidin,
	Flowers- Chebulin	acid	tannin etc.
	Charaka- Jwaraghna,		Charaka Iwarashua Vasashua
Karmukta	Arshoghna, Kasaghna,	Charaka- Jwarahara,	Charaka- Jwaraghna, Kasaghna,
Х агтикіа	Kushtaghna,	Kasahara, Virechanopaga	Virechanopaga, Kushtaghna,
	Prajasthapana		Vayasthapana

Aim and Objective- 1) To study the pathogenesis and *Ayurvedic* treatment of *Mutraghata* w.s.r.t. Chronic Kidney Disease (CKD).

2) To study the role of *Prathama Triphala Rasayana* in the management of *Mutraghata* w.s.r.t. Chronic Kidney Disease (CKD).

Materials- In this review article, Data are collected from various classical Samhitas like Charka samhita, Sushruta samhita, Ashtanga hrudayam, Ashtanga Sangraha, Sharangadhara, Bhavaprakasha nighantu Samhita etc., Modern medicine books, Published research articles, google scholar etc. were referred.

Methods- Conceptual, Literary review study.

DISCUSSION

According to Acharya Sushurta, the moola of Mutravaha Srotasa are Vasti and Medhra. [16] While Acharya Charka has considered Mutravaha Srotasa as Vasti and Vankshana. Vasti, centrals to urinary bladder which is reservoir of urine, collecting urinary fluid through Mutravaha Nadis. Medhra leads the penile part of urethra in male and in females which takes part to expel out Mutra only. Acharya Sushurta has explained the example of earthen pitcher possibly just to define the permeability of the glomerular membrane. Sravana kriya and oozing of the substances occur in Glomerulas and term 'Ayanamukha' is similar to Srotamsi. So, Mutravaha Srotasa can be very well coined with Glomerulas with special reference to Ayanamukha. [17] Mutravaha Srotasa is very essential srotasa for excretion of waste product as Mutra. Mutra is a Dravrupi Kitta produced as result of Aharapaka and the function of Mutra is to clear the Kleda out of the body. Mutravaha Dhamani, are the arteries which are concerned to tuft of Bowman's capsule and are only related to urine filtration. Regarding Mutravaha Nadis, they are the

channels through which water is carried to blood circulation from large gut under osmolarity pressure gradient. [18] In case of Mutraghata, there's a hamper in the function of Mutravahasrotasa, Mutravaha Dhamanis and Mutravaha Nadis causing difficult in excretion of urine, causing improper filtration of urine due to which there is a retention of harmful toxins, which accumulates throughout the body affecting Kidneys to function in proper way and leads to aggravation of Vata predominant Tridoshas at Vasti pradesha and thus manifest Chronic Kidney Disease (CKD). Prathama Triphala Rasayana constitutes of Haritaki, Vibhitaki and Amalaki. Both Haritaki and Vibhitaki comprises of Kashaya rasa which pacifies vitiated Kapha and Pitta Doshas, due to which it acts as Kledanashaka. Owing Amla rasa in Amalaki, it pacifies prabala vata dosha in Vasti. As Prathama Triphala Rasayana is having Madhura vipaka, it constitutes the properties of Mutrala due to its Snigdha, Sheeta and Guru properties in nature. Overall Prathama Triphala Rasayana acts Sarvadhatuvardhana, Balya, acts as rejuvenating, Kledanashaka and Tridoshahara [Fig: 1]. It can be proposed that Triphala inhibited the free radical generation and resultant damage to maintain the normal functions of renal cellular membrane. [19]

Triphala represents an essential foundational formula as it promotes efficient digestion, absorption, elimination, rejuvenation. Triphala is classified as and tridoshic rasayana, meaning that the energetics are appropriate for Vata, Pitta, and Kapha. Thus it act as anulomaka, dhatu vardhaka acts on pakwashaya, and regulates Apana vayu. Triphala is a powerful polyherbal formula with myriad efficacious therapeutic uses for maintaining homeostasis as well as the prevention and treatment of disease. Moreover, studies have validated a number of potential uses of Triphala, which include free radical scavenging, antioxidant, anti-inflammatory, immunomodulating, appetite stimulation, hyperacidity reduction, dental caries prevention,

antipyretic, analgesic, antibacterial, antimutagenic, wound healing, anticariogenic, antistress, adaptogenic, hypoglycemic, anticancer, hepatoprotective, chemoprotective, radioprotective, and chemopreventive effects. [20]

CONCLUSION

Prathama Triphala Rasayana is a gift from ancient Ayurveda, which offers an inexpensive solutions to more expensive modes of treatment for everyday concerns with minimum or no undesirable side-effects. It is a natural, renewable, earth-friendly agricultural product, less costly and more potent. Moreover it is anulomaka, dhatu vardhaka acts on pakwashaya, and regulates Apana vayu, and can be advised to patients of Mutraghata i.e. Chronic Kidney Disease.

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