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A Critical Review of *Phaltrikadi Ghana Vati* in the Management of *Kamala* w.s.r to (Jaundice)

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ABSTRACT:

In Ayurvedic Classics a number of single drugs and formulations have been mentioned for treatment of liver disorders. *Phalatrikadi Ghana vati* is one of the important and prestigious formulation, which is successfully used from the ancient period. AIM: The main aim of this review study to know the pharmacological action of this formula on the level of *dosha* (physiological entity of our body), *bhutagni* as we know that liver is the main seat of the *bhutagni* and positive role of Phaltrikadi ghana vati in treatment or avoiding harmful effects of so many agents as drugs, chemicals, toxins and alcohol. Due to the properties like - *Pitta*, *Kaphashamaka*, *Yakriduttejaka*, *Shothahara*, *Pandurogahar*, *Rechan*, *Deepan etc*. *Ghana vati* of *Triphala* (*Hareetaki*, *Vibheetaki and Amalaki*), *Amrita*, *Nimba*, *Tikta* (*Katuki*), *Vasa*, *and Kiratattikta* (*Bhunimb*) taken with honey or warm water pacify the *koshthashrit kamala and shakhashrita kamala*. Jaundice is a common disorder. The clinical features of jaundice go hand in hand with that of kamala. *Phalatrikadi Ghana vati*, is being utilized for the management of kamala from ancient time.

Keywords: Phaltrikadi Ghana vati, koshthashrit kamala, bhutwagni, tikta ras, cirrhosis and dosha.

INTRODUCTION

Drug is a part of *Chatuspada* of the treatment, which has been placed next to the physician according to *Acharya Vagbhatta*. The comprehensive knowledge of the drug is very important to the physician because without the knowledge of the drug the patients cannot be treated properly. *Ayurvedic* literatures has been explained the actions of Drugs on the basis of theory of *Rasa, Guna, Virya, Vipaka and Prabhava*. It is an accepted fact that success of treatment depends upon the drug and its administration. It is an art based on science and technology,

which is the gift to mankind *Phaltrikadi Ghana vati*, this formulation had been mentioned in the context of *Pandu* and *Kamala* in *Chakradatta* (8/8), *Sharangdhar Samhita* (2/75), *Yoga Ratnakar* (5th sloka) *pandu rog* and *Bhaisajya Ratnavali* (12/22).

Phalatrikadi Ghana vati contains eight drugs which are predominatly useful in the treatment of koshthashrit kamala / Hepatocellular jaundice, Cirrhosis, Alcoholic hepatitis, Fatty liver and more likewise condition of liver. First described in Chakradutta written by Chakrapanidutta



in 11th century and later on many texts, is the most popular and effective preparation contains the eight herbs namely *Hareetiki, Vibhitiki, Amalki, Amrita, Katuki, Nimba, Kirattika and Vasa*. In the present review study I had tried to understand and explain the properties, mode of action on dosa (physiological entities of human body), mechanism of action on modern medicine parameters and research works conducted in different universities. The description of each herbs explained on all the above parameters.

AIM AND OBJECTIVE OF STUDY

- 1. To co-relate *Jaundice* with *Kamala* according to *doshic* involvement and critical evaluation of the disease through various examination methods like *Trividha*, *Sadvidha* and *Dasabidha pariksha*.
- 2. To find out the effective treatment of *kamala* in Ayurveda.
- 3. To evaluate the effect of *Phalatrikadi Ghana And Vasadi Ghana Vati on Kamla (JAUNDICE)*.

Study design & grouping a) Method of collection of patients

The total 30 patients of *Kamala* (Jaundice) were taken for the present study. 15 patients each in Group-A (Trial Group-1) and Group-B (Trial Group-2). They were screened by a special proforma which included details history taking, physical sign and symptoms and pathological investigation mentioned in classics and modern science. The patient examination proforma is placed in the appendix of this dissertation.

b) METHODOLOGY: - Clinico-Pathological Study (Single blind Study).

Group-A (**Trial Group-1**): 15 patients were treated with *PHALATRIKADI GHANA VATI* 500mg thrice daily with honey for 15 days in empty stomach.

Group-B (**Trial Group-2**): 15 patients were treated with *VASADI GHANA VATI 500mg* thrice daily with honey for 30 days in empty stomach.

Duration-30 days Double Group Design Table 2

Dose And Administration Procedure

Dose of *Phalatrikadi Ghana Vati*:- 2 tab (500mg) thrice daily for 15 days,

Children-Half of the adult dose.

Anupana:- Madhu

Dose of *Vasadi Ghana Vati* :- 2 tab (500mg) thrice daily for 15 days.

Children-Half of the adult dose.

Anupana:-Madhu

Dietic Regimen

Ahara - Take normal oil and fat free diet, avoid spicy food and non-vegetarian items

Vihara - Exercise and Yoga

Detail Review On Phalatrikadi Ghanavati

Table No- 03: Ingredients of Phalatrikadi Ghanavati

Method of Preparation -

All the above drugs were taken in 1 part each and made them into *Yavakuta* form. After *Yavakuta*, *Kwatha* had been prepared. The *Kwatha* had been converted to *Ghanavati* and 500 mg tablet was made for easy medication.

Selection of Anupana – Madhu

Anupana is the vehicle which helps the absorption, assimilation and to increase the efficiency of drug. Madhu is also having *Deepana*, *Rochana*, *Shrotovishodhana*, *Yogavahi*, *Lekhana gunas* which may help in *Samprapti vighatana in Panduroga*.

VASA 1

Latin name – Adhatoda vasica Nees

Family - Acanthaceae

Rasa Panchaka

Rasa - Tikta, Kasaya, Guna - Rukshya, Laghu, Veerya – Sheeta, Vipaka –Katu, Doshakarmata -Kaphapittasamaka

Parts used – Leaves, Root, Flower

Chemical constituents:- Vasicine, Vasicinone, B-Sitosterol, Kaempferol, 1Peganine, Adhatodine, Vasicolinine.

Actions²:- Swasahara, Kasahara, Swarya, Hrudya, Raktapittahara, Tushnasamaka, Jwaraghna, Chardighna, Medohara, Kusthaghna, Ruchya, Varnya.

Therapeutic indications³: - Jwara, Raktapitta, Swasa, Kasa, Swarabheda, Hrudroga, Chardi, Prameha, Kustha, Aruchi, Kamala, Vaivarnya, Trushna.

Pharmacological actions:- Bronchodilator, Expectorant, Abortifacient. It also has antitussive property. A leaf extract was investigated for antibacterial activity against

Gram +ve bacteria. Adhatoda's alkaloid, vasicino l, to have an antifertility effect against several insect species by causing blockage of the oviduct.

Pharmacological studies

- 1. Leaves shoots in liver enlargement (Nagarjun, 1980-81).
- 2. Leaves used in fever and jaundice (Bull Bot Soc Bengal, 1972).
- 3. Leaves and roots have a hypoglycemic and antiviral against Ranikhet disease virus (Indian J. Exp. Biol., 1968). Antibacterial effect (with India IA'79)

GUDUCHI⁴

Latin name – *Tinospora cordifolia* (Wild) Miers ex Hook. F. & Thoms.

Family - Menispermaceae

Rasa Panchaka⁵ Rasa - Tikta, Kasaya, Guna - Guru, Snigdha, Veerya – Usna, Vipaka -Madhura, Doshakarmata - Tridoshasamaka

Parts used - Stem

Chemical constituents: - Tinosporide, cordifolide, unosporin, tinosporon, tinosporic acid, cordifol, hepatocosanol β -sitosterol and tinosporidine.

Actions⁸:- Rasayana, Jwarahara, Sangrahi, Deepana, Amahara, Trushnahara, Dahahara, Pramehaghna, Kasahara, Kusthaghna, Balya, Krimighna, Chardighna, Arshaghna, Medhya, Hrudya, Chakshusya, Vayastapana.

Therapeutic indications: - *Jwara*, *Vatarakta*, *Amlapitta*, *Prameha*, *Trushna*.

Pharmacological actions: - Antipyretic, Diuretic, Alterative

Pharmacological studies

- 1. Antioxidant activity of Tinospora cordifolia roots in experimental diabetes. (Prince PS et al., Department of Biochemistry, Annamalai University, Tamil Nadu; J Ethnopharmacol, 1999 June; 65 (3).
- 2. Adaptogenic properties of six Rasayana herbs (Including T. cardifolia) used in Ayurvedic medicine (It may induce genotypic adaptation). Rege NN et al., Ayurveda Research Centre, Department of Pharmacology and Therapeutics, Seth GS Medical College, Mumbai, 1999).
- 3. Immunotherapy with Tinospora cordifolia: a new lead in the management of obstructive jaundice. R Rege N et al., Gastroenterol, 1993 Jan; 12 (1).
- 4. Antioxidant activity of Tinospora cordifolia and its usefulness in the amelioration of cyclophosphamide induced toxicity. Mathew S et al., Amala Cancer Research Centre, Amla Nagar, Thrissur, Kerala, 1997.
- 5. Immuno-potentiating compounds from T. cordifolia

(with anti-complimentary an 102ypogl-modulatory activities). Kapil A et al., Pharmacology Division, Regional Research Laboratory, Jammu, 1997.

KATUKI6

Latin name – Piccrorhiza kurroa Royle ex Benth.

Family – Scrophulariaceae

Rasa Panchaka 7

Rasa – Katu, Guna - Rukshya, Laghu, Veerya – Sheeta, Vipaka –Katu, Doshakarmata-Kaphapitta samaka.

Parts used - Rhizome

Chemical constituents: - Irridoid bitter substances, Picroside I, Picriside-II, Kutkoside, Kutkin, Picrorhizin are present in rhizome. Root contains Kutkin, Kurrin, Vanillic Acid, Kutkiol, Kutkistrrol, D-Mannitol, Picroside I, Picroside Ii Kutkoside.

Actions¹¹: - Bhedana, Deepana, Hrudya, Jwarghna, Pramehahara, Swasahara, Kasahara, Dahahara, Kusthghna, Krimighna, Visamajwaraghna, Arsaghna.

Therapeutic indications: - Kamala, Yakrut Vikara, Vibandha, Hrudroga, Agnimandya, Jwara, Visamajwaraghna, Prameha, Swasa, Kasa, Daha, Kustha, Krimi, Arsa, Raktavikara.

Pharmacological actions: - Liver stimulant, Cholagogue, Purgative, Anthelmintic, Expectorant.

Pharmacological studies: Katuki contains Kutkin the bitter active principle. Experimental studies confirm the known efficacy of Kutkin in viral hepatitis as well as in hepatic abnormalities caused by alcohol or other hepatotoxic agents.

- 1. Effect of different extracts of Kutki on experimentally induced abnormalities in the liver. (Pandey V.N. et al.., Indian J. Med Res., 1969, March: 57/3).
- 2. Picroliv protects against alcohol induced chronic hepatotoxicity in rats. (Rastogi R et al.., Planta Med., 1996, June: 62/6, Biochemistry Division, C.D.R.I., Lucknow, India)
- 3. Picroliv, the iridoid glycoside fraction of Picrorhiza kurroa, selectively augements human J cell response to mycobacterial protein antigens. Sinha S et al.., Immuno. Pharmacol. Immunotoxicfol, 1998, Nov.: 20(4).
- 4. Prevention of Paracetamol induced hepatic damage in Rats by Picroliv- the standardized traction from Picrorhiza kurroa (Dwivedi Y et al.., Phytoether Res., 1991, 5-115).
- 5. A review of Plants used (Picrorhiza kurroa, Silybum marianum) in the treatment of liver disease: Par One. (South West College of Naturopathic Medicine: 2140 East Broad Way Rd. Tempe, Az 85282, USA, Altern. Med. Rev., 1998, Dec: 3(6).

6. Picroliv Protects against alfatoxin □1 acute hepato toxicity in rats. (Dwivedi and Rastogi et al.., Department of Pathology, King George's Medical College, Lucknow, India; Pharmacol. Res. 1993, Feb-Mar: 27(2).

NIMBA8

Latin name – Azadirachta indica A Juss.

Family - Meliaceae

Rasa Panchaka9

Rasa - Tikta, Kasaya, Guna - Laghu, Rukshya, Veerya - Sheeta, Vipaka - Katu, Doshakarmata - Pittakaphasamaka Parts used - Leaf, Bark, Seed, Fruit, Flower, Resin Chemical constituents: -

Leaves contain Nimbin, Nimbinene, Nimbandiol, Nimbolide, Quercitin, B-Sitosterol, Azadirone and Azadirachtin. Bark has Nimbin, Nimbinin, Nimbidin, Azadirachtin, Chlorogenic acid, Salanin and 4- Epinimbin. Flower possess Nimbosterol, Myritin and Kaempferol. Fruits yielded Gedunin, Azadiradione, Azadirone and Deacetyl Azadirachtinol.

Actions: -

Leaf- Krimighna, Visaghna, Kusthaghna, Vranaghna, Netrya, Kasahara, Swasahara. Bark- Kusthaghna, Krimighna, Sramahara, Trushanhara, Jwaraghna, Chardighna, Kandughna, Pramehaghna, Ruchikara, Sothahara, Raktasodhaka. Fruit- Kusthaghna, Arsaghna, Krimighna, Bhedana, Mehahara, Gulmanasaka. Flower-Krimighna, Visaghna. Seed- Kusthaghna, Krimighna

Therapeutic indications: -

Leaf- Kustha, Krimi, Netra Roga, Aruchi, Kasa, Swasa, Vrana, Visaroga. Bark- Kustha, Krimi, Kandu, Prameha, Aruchi, Raktadusti, Trushna, Srama, Chardi, Sotha. Fruit-Kustha, Arsa, Krimi, Prameha, Gulma. Flower- Krimi, Visa. Seed- Krimi, Kustha

Pharmacological actions: -

Leaf- Insect repellent, Blood purifier, Antidiabetic. Bark-Antiviral and Antibacterial. Flower- Insecticidal. Seed-Antiviral.

Pharmacological Studies

- 1. Effect of an aqueous extract of Azadirachta indica on the immune response on mice. Nijro SM et al, Department of Veterinary Pathology and Microbiology, University of Nairobi, Kebeta, Kenya and Erstepoort, J. Vet. Res. 1999, Mar. 66 (10).
- 2. Immunopotentiating effects of Azadirachta indica, dry leaves powder in broilers, naturally infected with IBD (Infectious bursal disease) virus. Sadekar RD et al, Department of Pharmacology and Medicine, Dr. Panjabrao

Deshmukh Krishi Vidyapeeth, Akola, 1998.

- 3. Possible biochemical mode of anti-inflammatory action of A. Indica in Rats. Chattopadhyay RR, Biometry Research Unit, Indian Statistical Institute, Calcutta, 1998.
- 4. Antibacterial activity of East African Medicinal Plants (A. Indica). Fabry W et al, Institute fur Medizinische Mikrobioligic, Germany, 1998.
- 5. Antiviral effect of leaves (A. Indica). Indian J. Med. Res., 1969.
- 6. Various plant parts used in inflammation and fever (Econ. Bot., 1970).
- 7. Nimbidin, form Neem oil effective in acute and chronic inflammations (Pant Med., 1981).
- 8. Nimbidin acts as a analgesic and antipyretic in rats (Bull Med. Ethno. Bot. Res. 1980).
- 9. Possible mechanism of hepatoprotective activity of A. Indica leaf extract (Pub. Med. J. Ethon. Ph., 2003).

BHUNIMBA¹⁰

Latin name – Andrographis paniculata Nees.

Family - Acanthaceae

Rasa Panchaka 11

Rasa – Tikta, Guna - Laghu, Rukshya, Veerya – Ushna, Vipaka – Katu, Doshakarmata - Pittakaphasamaka

Parts used – Whole plant

Chemical constituents: -

Whole plant contains lactones – andrographolide, oxo andrographolide, deoxy didehydro -and rographolide, meandrographolide, iridoid glucoside, and hydroxyl tetraancthoxyflavone, flavono, dinecthoxy flavone andrographolide. The glucoside roots contain andrographin, panicolin, apigenin, andrographolide, flavone andrographone, flavonoid glucoside.

Therapeutic indications: - Kamala, Yakrut Vikara, Vibandha, Hrudroga, Agnimandya, Jwara, Visamajwaraghna, Prameha, Swasa, Kasa, Daha, Kustha, Krimi, Arsa, Raktavikara.

Pharmacological actions: - Liver stimulant, Cholagogue, Purgative, Anthelmintic, Expectorant.

Pharmacological studies

- 1. It has laxative property, and used in different fevers.
- 2. It causes a free discharge of bile while promoting a more healthy action.
- 3. Hepatoprotective effect of Swertia chirata on rat. (Mukherjee S et al.., Department of Zoology, University of Calcutta, 1997).
- 4. Anti-inflammatory activity of Mangifera indica and Swertia chirata (Das P.C.; Mandal. S. et al., CCRAS, Department of Chemistry, University College of Science,

Calcutta).

- 5. A source of bitter compounds for medical use in liver disorders (Datt. B. et al., Department of Forrest Products, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni Solan, H.P.).
- 6. Naturally occurring iridous isolated from S. chirata with Pharmacological activity, Iridoids have encouraging biological activities including hepato-protective, anticancer, immuno-stimulant and anti-leishmanial (Mandal S. et al., Medicinal Chemistry Division, Indian Institute of Chemical Biology, Calcutta).

HARITAKI12

Latin name – Terminalia chebula Retz.

Family - Combretaceae

Rasa Panchaka¹³

Rasa - Kasaya, Madhura, Amla, Tikta, Katu, Guna - Laghu, Rukshya, Veerya – Usna, Vipaka –Madhura, Doshakarmata - Tridosashamaka

Parts used – Fruits

Actions 14: - Rasayana, Medhya, Chakhusya, Bruhmana, Anulomana, Swasahara, Kasahara, Pramehahara, Arsaghna, Kusthaghna, Sothahara, Krimighna, Vibandhahara, Trusnanigrahana, Chardighna, Kandughna, Hrudya, Sulahara, Lekhana, Deepana, Pachana, Vayasthapaka, Smritiprada, Jwarahara, Vranahara.

Therapeutic indications: - Vibandha, Swasa, Kasa, Prameha, Arsa, Kustha, Netraroga, Sotha, Krimi, Chardi, Sula, Agnimandya and as a Rasayana.

Pharmacological actions: - Antimicrobial, Antifungal, Antibacterial, Antistress, Antispasmodic, Hypotensive, Hypolipidemic, Anthelmintic, Purgative, Cytoprotective, Cardiotonic.

Pharmacological Studies

- According to Caius, Mhaskar and Isaac, the bark is endowed with both diuretics and cardiotonic properties. Adaptogenic properties of six Rasayana herbs used in Ayurvedic medicine (T. chebula) (Rege-NN et al. Ayurveda Research Center, Department of Pharmacology and Therapeutics, Seth GSF Medical College, Mumbai, 1999.
- 2. Immunosuppressive effects of gallic acid and chebulic acid on CTL- mediated toxicity. (Hamada S et al., Department of Bioengineering, Tokyo Institute of Technology, Yokohama, Japan, 1997).
- Screening of some Indian medicinal plants for their antimicrobial properties (T. chebula). (Ahmad I et al., Department of Agriculture Microbiology, Institute of

Agriculture, Aligarh Muslim University, 1998).

BIBHITAKA¹⁵

Latin name – Terminalia belerica Roxb.

Family - Combretaceae

Rasa Panchaka 16

Rasa – Kasaya, Guna - Rukshya, Laghu, Veerya – Usna, Vipaka –Madhura, Doshakarmata - Tridosashamaka

Parts used – Fruits

Actions: - Kasahara, Netrya, Kesya, Krimighna, Swarya, Chardighna, Mukharoga.

Majja: - Madaka

Therapeutic indications ¹⁷: - Kasa, Netra roga, Kesa vikara, Krimi, Swarabheda, Mukharoga, Sotha, Visarpa, Mutradosa and Asmari.

Pharmacological actions: - Astringent, Tonic, Expectorant.

Pharmacological studies

- 1. Screening of some Indian medicinal plants for their antimicrobial properties (T. belerica) (Aligarh Muslim University, India, 1998.Antioxidant properties of the Ayurvedic formulation Triphala and its constituents; (Vani T. et al., Department of Phytochemistry and Pharmacolognosy, L.M. College of Pharmacy, Ahmedabad, Gujarat.
- 2. Hepatoprotective studies of a fraction from the fruits of T. bellerica on experimental liver injury in rodents (Anand K.K. et al.; Division of Pharmacology, Regional Research Laboratory, Jammu).

AMALAKI¹⁸

Latin name – Embelica officinalis Garetn.

Family - Euphorbiaceae

Rasa Panchaka 19

Rasa - Kasaya, Madhura, Amla, Tikta, Katu, Guna - Guru, Rukshya, Sheeta, Veerya – Sheeta, Vipaka –Madhura, Doshakarmata - Tridosahara

Parts used - Fruits

Actions^{20:} - Rasayana, Pramehaghna, Jwaraghna, Vrusya, Dahahara, Chardighna, Sophaghna, Ruchya, Medohara, Bhagna, Sandhanakara, Kesya, Chakhusya, Kusthaghna.

Therapeutic indications: - Rasayana, Prameha, Jwara, Raktapitta, Panduroga, Kamala, Sukra Dourbalya, Daha, Chardi, Bhagna, Sopha, Kesa vikara.

Pharmacologicalactions:-Immunomodulator,Antioxidant,Antiulcerogenic,Anticarcinogenic,Antihypercholesterolaemic,Pancreatoprotective,Antimicrobial.

ANUPANA- MADHU 21

Rasa - Kasaya, Madhura, Guna- Laghu, Rukshya, Veerya-Sheeta, Vipaka - Madhura

Doshakarmata - Tridosahara

Actions: - Chedana, Deepana, Rochana, Sroto bisodhana, Grahi, Yogabahi, Lekhana, Rasayana, Pramehaghna, Jwaraghna, Vrusya, Dahahara, Chardighna, Sophaghna, Ruchya, Medohara, Bhagna, Sandhanakara, Kesya, Chakhusya.

Chemical constituents: -Honey is a complex natural product made mainly of carbohydrates and water. It also contains inorganic salts, amino acids, Vitamins and some enzymes. Vitamins found in Honey- Vitamin B6, Vitamins B12, Vitamins A, Riboflavin, Niacin, Vitamins C

Pharmacological studies

- 1. The alcoholic extract of the fruit was found to have antiviral effect (Dhar et al., 1968). Fruit, juice and its sediment and residue has antioxidant due to gallic acid (Pak J. Sci. Res., 1966).
- 2. Useful in acute viral hepatitis (Indian J. Med. Res., 1980). Fresh root as remedy for jaundice (Acta Phytotherapy, 1972). It has pronounced expectorant and cardiotonic activities (Husain, Aligarh Muslim University, 1975).
- 3. Levels of SGOT, SGPT, LDH, serum free fatty acids were significantly decreased, in groups treated with this. Amalaki Rasayan raised the total protein level and increased the body weight in rabbits. The dried fruit pulp powder reduced serum cholesterol (p <0.01) an aortic cholesterol (p <0.001) and hepatic cholesterol (p<0.001) significantly in experimental study on rabbits.
- 4. Antioxidant activity of active tannoid principles of E. Officinalis (Bhattacharya et al., Department of Chemistry, Bose Institute, Calcutta, Indian J. Exp. Biol., 1999 Jul., 37 (7).
- 5. Protection against cytotoxic effects of arsenic by dietary supplementation with crude extract of Emblica officinalis fruit (Bishwas et al., Vivekananda Institute of Medial Sciences, Calcutta; Phytother Res., 1999 Sep., 13 (6).
- 6. Adaptogenic properties of six Rasayana herbs used in Ayurvedic medicine (including E. Officinalis) (Rege NN et al., Ayurveda Research center, department of Pharmacology and Therapeutics; Seth GS Medical College, Parel, Mumbai; Phytother Res. 1999 June 13 (4). 7. Anti-inflammatory activities of E. Officinalis, Gaertn leaf extracts. (Aswani MZ, Department of Biomedical Sciences, University of Tempere, Finland; J. Pharm-
- 8. Screening of some Indian medicinal plants for their

Pharmacol. 1993 Jun: 45 (6).

antimicrobial properties (E. Officinalis) (Ahmad I et al., Department of Agricultural Microbiology, Institute of Agriculture, Aligarh Muslim University, 1998)

Table No- 4 shows *Rasa panchaka of Phalatrikadi Ghanavati* and Table No- 5 shows Different properties of *Vasadi Kwatha Ghanavati*

On the Ayurvedic Parameters these Drugs are *Tikta*, *kashaya ras predominent and madhur in Vipaka*. So these are most effective and efficient to pacify the *Pitta dosha*, the main cause of many liver disorders.

RESULT

Thirty-one articles were screened; Fifteen human trials met inclusion criteria. Ayurvedic treatment and *Panchakarma*-based procedures effectively relieve symptoms and normalize the liver function test in patients with *Kamala* (Jaundice). Nine studies were published as a case report, 3 were single-arm clinical studies, two were double studies, and one had three arms. 8 out of 15 clinical studies used *Panchkarma* as management of Kamala, 7 used *Virechana* in management. Almost all studies used Sr. bilirubin as an assessment of *Kamala* except one study. One study reported side effects of drugs were no such data reported in other studies reported no side effects during management.

DISCUSSION

So We can say on the basis of vivid description of all the eight herbal drugs, which is the constituents of well known decoction/Kwath namely Phaltrikadi is a most common and famous preparation for the treatment of Koshthashrit Kamala/ Hepatocellular jaundice, pandu /Anaemia and other liver disorders. Since its a purely herbal preparation hence very much safe and more effective than any other herbomineral preparation. In Short these Drugs have properties following i.e. Pittahar, Pittarechak, Yakriduttejak, Deepan, Rechan, Pachak, Shothhara, Jwarahara, Kamala and Panduhara, Yakrit and Raktvikarhara, Tridoshhar, Rashayan, Mutrajanana, Pittasarak, Anulomak, Shwedak, Dahaprashaman and Raktapittahara. On the modern parameters we can say that the Herbal Hepato protective preparations have following and properties Cholegouge Cholertic action, Hepatocellular regeneration, Antiviral, Antioxidant, Enzymes and Metabolic correction, Digestive, Membrane stabilizing effect, Immuno modulating action, anti inflammatory action and Antipyretic.

CONCLUSION

One should avoid over medication and Pseudo medication while treating a patient of liver disorders. Different awareness programme should be performed about avoiding self medications by the patients of liver diseases. Patient In the management of these patients herbal preparations are very much effective. Ayurvedic herbal preparations have many advantages like Shortening of disease period, Early regeneration of liver parenchymal cells, Avoid post hepatitis residual symptoms and avoid complications such as Cirrhosis, Hepato cellular Carcinoma and Hepatic Encephalopathy. So Many research works had been conducted all over the Country on different diseases and parameters, as described above. However further work can be continued on different parameters.

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Table 1 Single group design

(Gr= Group, BT=Before Treatment, AT=After Treatment)

Gr A (BT)Gr A (AT)	Effectiveness of treatment-1(Trial groupA)will be assessed.
Gr B(BT)Vs	Effectiveness of treatment-2(Trial group B)will be assessed.

(Gr= Group, BT=Before Treatment, AT=After Treatment)

Table 2 Double Group Design

Gr A (AT)Gr B (AT)	Effectiveness of treatment of both(Trial group)will be
	assessed.

Table No- 03: Ingredients of Phalatrikadi Ghanavati

Sl. No.	Name of Drug	Proportion	
1.	Vasa	1 Part	
2.	Guduchi	1 Part	
3.	Katuki	1 Part	
4.	Nimba	1 Part	
5.	Bhunimba	1 Part	
6.	Haritaki	1 Part	
7.	Bibhitaki	1 Part	
8.	Amalaki	1 Part	

Table No- 4: Rasa panchaka of Phalatrikadi Ghanavati

S.no	Name	Rasa	Guna	Virya	Vipaka	Doshaghnata
1.	Vasa	Tikta Kasaya	Laghu	Sheeta	Katu	Kapha Pitta samaka
			Sheeta			
2.	Guduchi	Katu, Tikta	Laghu	Ushna	Madhura	Tridoshasamaka
3.	Katuki	Tikta	Ruksha	Sheeta	Katu	Kapha Pitta samaka
			Laghu			
4.	Nimba	Tikta	Laghu Sheeta	Sheeta	Katu	Tridoshasamaka
5.	Bhunimba	Tikta	Laghu	Sheeta	Katu	Kapha Pitta samaka
		Yogavahi				
6.	6. Haritaki	Pancharasa	Ruksha,	Ushna	Madhura	Tridoshasamaka
		(Alavana)	Laghu			
7.	Bibhitaki	Kasaya Pradhan	Sheeta	Ushna	Madhura	Tridoshasamaka
			Ruksha			
			Laghu			
8.	Amalaki	Pancharasa	Ruksha	Sheeta	Madhura	Tridoshasamaka
			Laghu			

Table No- 5: Different properties of Vasadi Kwatha Ghanavati

roperty No. of total drugs		Percentage	
RASA			
Tikta	3/8	37.5%	
Pancha rasa (alavana)	2/8	25%	
Kashaya- Tikta	1/8	12.5%	
Tikta –Katu	1/8		
Kashaya	1/8	12.5%	
GUNA			
Laghu	8/8	100%	
Rukshya	4/8	50%	
Sheeta	3/8	37.5%	
Yogavahi	1/8	12.5%	
VEERYA			
Sheeta	5/8	62.5%	
Ishna	3/8	37.5%	
VIPAKA			
Madhura	4/8	50%	
Katu 4/8		50%	
DOSHAGHNATA			
Fridosha samaka	5/8	62.5%	
Pitta – Kapha samaka	2/8	25%	