

Volume 12, Issue 9, 2284-2295.

Research Article

ISSN 2277-7105

# TO UNDERSTAND THE CONCEPT BEHIND USING PANCHAGAVYA GHRITA, MAHATIKTAKA GHRITA, KALYANAKA GHRITA IN THE TREATMENT OF PANDU & KAMALA ROGA"

Dr. Banashankari H. L.<sup>1</sup>\* (BAMS) and Dr. Ashwini S. G.<sup>2</sup>\* BAMS MD (Ayu)

<sup>1</sup>2<sup>nd</sup> Year P.G Scholar Department of Kayachikitsa, A.L.N Rao Memorial Ayurvedic Medical College Koppa, Karnataka.

<sup>2</sup>Assistant Professor, Department of Kayachikitsa, A.L.N. Rao Memorial Ayurvedic Medical College Koppa, Karnataka.

Article Received on 21 April 2023,

Revised on 11 May 2023, Accepted on 31 May 2023, DOI: 10.20959/wjpr20239-28012

\*Corresponding Author Dr. Banashankari H. L. 2<sup>nd</sup> Year P.G Scholar Department of Kayachikitsa, A.L.N Rao Memorial Ayurvedic Medical College Koppa, Karnataka.

## ABSTRACT

**Introduction:** *Pandu* and *Kamala* are said to be the diseases which are inter-related. *Pandu* is said to be *nidanarthakara* for *Kamala*. *Pandu roga* is characterized by *alparakta, alpamedaska, nissaara awastha* which can be co-related to the paleness of the body. *This* may be due to reduced blood flow or oxygen or due to decreased no of blood cells and anemia is one of the most common causes of paleness, hence *panduroga* can be correlated with anemia Anemia is one of the most common causes of paleness. Globally anemia affects 1.62 billion people, which corresponds to 24.8% of population. In India, anemia affects an estimated 50% of the population. Kamala can be correlated with jaundice according to their resemblance in signs and symptoms. The incidence of jaundice is approximately 40,000 per 100,000

individuals of intensive care unit patients. **Methodology:** Retrospective analysis was done based on the available literature and various studies published both in print and medical media. **Result**: *Panchagavya ghrita* is ideal to be administered in *vataja, kaphaja, mrudbakshanajanya pandu and shakhashrita kamala. Administration of Mahatikataka ghrita* has to be done in *bahu pitta awsatha* of *pithajapandu* and *kostashakhashrita kamala. Kalyanaka ghrita* would be ideal to be administered in *kaphaja, tridoshajapandu, shakhashrita* and *kostashakhashrita kamala.* **Discussion:** Ingredients of *Panchagavya, Mahatiktaka, Kalyanaka Ghritas* are *tikta rasa pradhana* and having special action on *yakrit. Panchagavya ghrita* is *tridoshaghna, ojasya, Rasayana. Mahatiktakaghrita* is *pitta vata hara,* 

whereas *kalyanaka ghrita* is *raktashodhaka*, *rasayana*. Hence can be judiciously used in conditions associated with *pandu* and *kamala* as *shodhananga* and *shamanangasneha*.

**KEYWORDS:** Pandu, Kamala, Panchagavyaghritha, Mahatiktakaghrita, Kalyanakaghrita, Snehapana.

## INTRODUCTION

*Ayurveda* is the science of life that is focused on the maintenance of positive health in healthy and eradication of ailments in diseased through its holistic approach, lifestyle practices, dietary habits and medications. Malnutrition either due to lack of balanced diet and population explosion in today's world has led to the development of various diseases and *Pandu Roga* is one of such disease. *Ayurveda* described *Pandu* as *Pitta Pradhana vyadhi* associated with *Rasa* and *Rakta Dhatu*.<sup>[1]</sup> *Kamala* is explained as one of the *Raktapradoshaja vyadhi*.<sup>[2]</sup>

*Pandu* is said to be *Nidanarthakara* for *Kamala*.<sup>[3]</sup> i.e., when *Pandu* is not treated properly it can lead to *Kamala*. Thus, *Kamala* can be considered as an effect of untreated *Pandu* or *Pandu* which runs a chronic cause. When the patients who is suffering from *Pandu*, during the process of recovery or after getting cured, consumes *Pitta* aggravating foods and life activities in excess, the blood gets severely aggravated and burns the muscles eg; excess intake of *kshara, amla, lavana rasa dravyas like masha, pinyaka, tila and viharas like bhaya, chinta, krodha* etc.<sup>[4]</sup>

*Pandu roga* is characterized by the paleness of the body which may be due to reduced blood flow or oxygen or due to decreased no of blood cells and anemia is one of the most common causes of paleness, hence *panduroga* can be correlated with anemia.<sup>[5]</sup> Globally anemia affects 1.62 billion people, which corresponds to 24.8 % of population. In India, anemia affects an estimated 50% if the population.<sup>[6]</sup>

Kamala can be correlated with jaundice according to their resemblance in signs and symptoms. Jaundice, icterus, is yellowish discoloration of tissue resulting from the deposition of bilirubin.<sup>[7]</sup> Jaundice occurs when there are disruptions along this metabolic pathway, causing an increase in unconjugated bilirubin (e.g., from increased red blood cell destruction or impaired bilirubin conjugation) or conjugated bilirubin (e.g., from hepatocellular damage

or biliary tract obstructions).<sup>[8]</sup> The incidence of jaundice is approximately 40,000 per 100,000 individuals of intensive care unit patients,<sup>[9]</sup>

*Ghrita* increases *Agni*, and all digestive energies and enzymes of the body. *Ghritha* promotes the *bhutagnis*, the elemental fires which dwell in the liver and govern the transformation of food in the body. It does not clog the liver, as do other oils and fats, but strengthens it. It is food for *majja-dhatu*, bone marrow and nerve tissue, and feeds the brain.<sup>[10]</sup>

Medicated ghee controls excessive tissue damage which is caused by vitiated *pitta* in *pandu* and *kamala*. *Ghrita* balances *pitta*, combats inflammation, corrosion and excessive heat caused by *pitta*. *Ghrita* is a *dosha* specific and disease specific remedy in *kamala*. It causes micro-cleansing of the channels and enables flow of nutrients. It provides unctuousness and lubrication of tissues and related channels.<sup>[11]</sup>

## **OBJECTIVES OF THE STUDY**

- 1. To study various references available on *Panchagavya, Mahatiktaka, Kalyanaka ghritas* in ayurvedic treatises.
- 2. To analyze the clinical usage and effect of *Panchagavya, Mahatiktaka, Kalyanaka ghritas* in different *awasthas* of *pandu* and *kamala*.

#### MATERIALS AND METHODS

#### **Literature Review**

References has been collected from ancient Ayurvedic texts, modern clinical text books, Research Journals, and electronic databases and thoroughly studied for the usage of *Mahatiktaka, Kalyanaka, Panchgavya Ghritas* with respect to different *awasthas* in *pandu* and *kamala*.

#### **Disease Review**

As mentioned in table I, *Pandu* is *nidanarthakara* for *kamala*. Both *pandu* and *kamala* are *pitta pradhana tridoshaja vyadhis*, with mainly *rasa*, *rakta*, *mamsa dhatu* involvement. *Rasa*, *raktavaha srotas* along with *annavah* and *pureeshavaha srotas* vitiation. *Sanga* and *vimargagamana* being main *srotodustiprakara*. *Jataragni* and *dhatvagni mandhya janya vikaras*,<sup>[3]</sup> As both *pandu* and *kamala* are associated with each other for the manifestation of disease, hence the *ghritas* mentioned in same *adhikaras* can be administered in different *awasthas* of these diseases.

Samprapti Ghataka	Pandu <sup>[12]</sup>	Kamala <sup>[13]</sup>
Dosha	Pittapradhana Tridosha- Sadaka, Ranjaka Pitta, Vyana, Samana Vata, Avlambaka, Kledaka Kapha	Pittapradhana Tridosha. Pitha- Ranjaka, bhrajaka, alochaka, pachaka pitta Vata-udana, vyanavata Kapha-kledakakapha
Dushya	Rasa, Rakta, Twak, Mamsa	Rasa, Rakta, Mamsa (Jeerna Awastha)
Srotas	Rasavaha, Rakta Vaha	Rasa, Rakta, Anna, Pureeshavaha
Srotodushti	Sanga, Vimargagamana	Atipravrutti, Sanga, Vimargagamana
Adhishtana	Sarva Shareera, Twak	Koshta-Mahasrotas-Yakrit Shaka- (Raktadi) Twak, Netra, Nakha, Mutra
Ashaya	Amashayotha (Santarpana)	Adho Amashaya
Agni	Jataragni and Dhatvagni Mandhya (Rasa, Rakta, Mamsa, Medha)	Jataraagni And Dhatwagni Mandhya
Vyadhi Swabhava	Chirakari	Chirakari
Sadhyasadhya	Sadhya /Krichra Sadhya Acc to Dosha and Kala	Sadhya /Krichra Sadhya Acc to Dosha and Kala

## Table I: Disease review.

## **Drug review**

The selected ghritas i.e., *panchagavya*, *mahatiktaka* and *kalyanaka ghritas* based on their ingredients and *rasa panchakas*, we can ascertain that;

- Panchagavyaghrita is Agni Deepaka, Srotoshodhaka, Anulomana, tridoshaghna, Medhya, Ojasya, Rasayana hence can be administered judiciously in kaphajapandu, vatajapandu and kamala.
- *Mahatiktakaghritha* can be administered mainly *pittaja pandu* and *kamala* due to *tikta rasa* and *kleda hara* properties and also in *kaphajapandu* due to action on pacification of *kapha*.
- *Kalyanakaghrita*, with predominance of *tikta rasa, laghuguna, ushnavirya, katuvipaka,* being *Medhya, Balya, agnideepaka,* hence to be used in *mainly kaphajapandu*. and also, can be used judiciously in *tridoshaja* conditions due to its dosha hara properties.<sup>[14]</sup>

Various references of *panchagavya, mahatiktaaka, kalyanaka ghritas* in ayurvedic treatises are as mentioned in table 1 with *rogadhikara* of each *ghritas* and *rasapanchakas* in table no II, III, IV, V and VI respectively.

Treatises	Panchagavya Ghrita	Mahatiktaka Ghrita	Kalyanaka Ghrita
Charakasamhita	Apasmarachikitsa 10 /17-24, Pandu chikitsaadhyaya 16/43	Kushtachikitsa 7/144-150 Pandu chikitsaadhyaya 16/43	Unmadachikitsa 9/35-41 Pandu chikitsaadhyaya 16/43
Sushruthasamhita	Panchagavyagrita 1/2/3 Uttaratantra, jwaradhyaya 39/ 230-243	Chikitsasthana, kushtachikitsaadyaya 9/7-9	Uttaratantra Mahakalyanakagrita, jwaradhyaya 39/235-239 & Unmadachikitsaadhyaya 62-23-27
Astangasangraha	Mahapanchagavyagrita uttaratantra, apasmarapratishedaadhyaya, 10/11	-	Uttaratantra, unmadapratishedaadhyaya, 9/18
Astangahridaya	Uttaratantra, apasmarapratishedaadhyaya, 7/18-23	Chikitsasthana, Kushtachikitsa 19/9-11	Uttaratantra, unmadapratishedaadhyaya, 6/26-28
Yogaratnakara	Purvakhanda 5-1 Apasmarachikitsaadhyaya, swalpapanchagavyagrita	YR. UTT.12/1-6	YR PUR 13 -1-8 P 491
Chakradatta	Bruhatpanchagavyagrita Apasmarachikitsa 21/17-22	Vranashotha 44/ 104-110	Unmadachikitsa 20/21-27
Bhaishijyaratnavali	-	Kushtadhikara 118- 121	-
Sharanghadhara	-	Chi 9/45-50	Chi 9/38-43
Bhava prakashanigantu	-	-	Unmadadhikara 22/65
Gadanigraha	Prayogakhanda, Gritakalpa Mahapanchagavya 323-329	Prayogakhanda 403-410	Prayogakhanda 363-369

Table II: References of *Panchagavya*, *Mahatiktaaka*, *Kalyanaka Ghrita* in ayurvedic treatises.

Table III: Panchagavya Ghrita Rogadhikara.

	Panchagavya ghrita			
Treatises	Reference	Rogadhikara		
	Kelefelice	Pandu	Kamala	Others
				Apasmar, Jwara, Unmada, Shotha,
Charaka Samhita	Chi 10/17-24	+	+	Udararoga, Gulma, Arsha,
Churaka Sammia	Cha chi 16/43	1	I	Halimaka, Grahabadha and
				Chaturthakjwar.
				1 panchagavya with prakshepa
Sushrutha				-vishamajwara
Samhita	utt39/230-243	+	-	2-panchagavya (only)
Sammia				3- panchagavya
				-Jeernajwara, shopha, pandu
AstangaSangraha	Utt10/11	+	+	Jwara, apasmara, udara,
Asiangasangrana	01110/11	+	+	bhagandhara, shopha, arsha,

AstangaHridaya	Utt7/18-23	+	+	gulma, kasa. Apasmar, jwar, unmadA,udarroga, bhagandar, shopha, arsha, gulma,
Yoga Ratnakara	Purvakhanda 5-1 Apasmarachikitsaadhyaya, (swalpapanchagavyagrita)	-	-	kasa and grahabadha. Chaturthikjwar, unmad, graha dosha and apasmara.
Chakradatta	Bruhatpanchagavyagrita Apasmarachikitsa 21/17-22	+	+	Apasmara, jwara, kasa, shwayathu, gulma, arsha, halimaka
Gadinigraha	Prayogakhanda (Mahapanchagavya) 323-329	+	+	Chaturtakajwara, shwayatu, bhagandhara, Gulma,

## Table IV: Mahatiktakaghrita.

	MahatiktakaGrit	a		
Treatises		Rogadhik	ara	
	Reference	Pandu	Kamala	Others
Charaka Samhita	Chi 7/144-150	+	+	Arsha, Visarpa, Amlapitta, Vatarakta, Unmada, Visphotaka, Kushta, Jwara, Kandu, Hridroga, Gulma, Raktapradara, Gandamala.
Sushrutha Samhita	Su chi 9/7-9	+	-	Kushta, Vishamajwara, Rakta Pitta, Hridroga, Uunmada, Apasmara, Gulma, Pidaka, Asrigdhara, Gandamala, Sleepada.
AstangaHridaya	Chi 19/9-11	+	+	Pitaajakushta, Visarpa, Kandu, Galaganda, Dushtanadi, Vrana, Apachi, Visphota, Vidradhi, Gulma, Shopha, Unmada, Hridroga, Timira, Vyanga, Grahani, Shiwithra.
Yoga Ratnakara	Utt.12/1-6	+	+	Visarpa, Amlapitta, VataRakta, Vivspota, Pama, Unmada, Jwara, Kandu, Gulma, Gandamala, Bhagandhara.
Chakradatta	Vranashotha 44/104-110	+	+	Vatarakta, kushta, raktapitta, visarpa, amlapitta, jwara, kandu, hridroga.
BhaishijyaRatnavali	Kustadhikara 118-121	+	_	Amlapitta, Raktapitta, Visarpa, Kusta, Arshas.
Sharanghadhara	Chi 9/45-50	+		Vatarakta, Kushta, Raktapitta, Raktarsha, Gulma, Visarpa, Pradara, Gandamala, Kshudraroga, Jwara.
Gadanigraha	Prayogakhanda 403-410	+	+	Vataraktha, Visarpa, Raktasrava Daruna,

	Kalyanaka Ghrita			
Treatises	Deferrer	Rogadh	ikara	
	Reference	Pandu	Kamala	Others
Charakasamhita	Chi 9/35-41	+	-	Chardi, Arsha, Mutrakrichra, Visarpa, Kandu, Visha, Unmada, Meha.
Sushruthasamhita	<ul> <li>Mahakalyanakaghrita/ uttaratantra, jwaradhyaya 235-239</li> <li>Unmadachikitsaadhyaya 62-23-27</li> </ul>	-	-	Gulma, Kasa, Jwara, Shwasa, Kshaya, Unmada.
Astangasangraha	Utt 9/18	+	_	Bhoota, GrahaRoga, Unmada, Kasa, Apasmara, Kandu, Visha, Shosha, Meha, Moha, Jwara, Mangalakara, Sloubhgyakara, PunsavanaUpyoga
Astangahridaya	Utt 6/26-28	+	-	Kasa, Apasmara, Bhutonmada, Balagraha, VishaVikara, Garavisha, Vandhyatva, Yoniroga.
Yoga ratnakara	Purva khanda 13 /1-8	+	-	Apasmara, Jwara, Shosha, Kasa, Mandagni, KshayaRoga, VataRakta, Pratishyaya, TrutiyakaJwara, Kandu, Visarpa, Unmada, Prameha
Chakradatta	Unmadachikitsa 20/21-27	+	-	Mutrakruchra, Visarpa, Kandu, Unmada, Swarabheda, Visarpa, Garavisha, Vandhya.
Sharanghadhara	Chi 9/38-43	+	_	Apasmara, Unmada, Vatarakta, Kandu, Mutrakrichra, Visarpa, Prameha, Vandhyatva, Pratishyaya, Katishoola
Bhava prakashanigantu	Madhyamakhanada, 22-65- 66			Graha, Unmada
Gadanigraha	Prayogakhanda 363-369	+	-	Apasmara, Jwara, Kasa, Shosha, Kandu Vataraktha, Visarpa, Unmada, Asrigdhara

## Table V: Kalyanaka Ghrita.

Table VI: Rasapanchaka of Panchagavya, Mahatiktaka, Kalyanaka Ghrita.

Rasapanchaka	PanchagavyaGhrita <sup>[15]</sup>	MahatiktakaGhrita <sup>[16]</sup>	KalyanakaGhrita <sup>[17]</sup>
Ingredients	Godugdh,godadhi, gomutra, go ghrita, gomaya rasa, devapanchamula, daruharidra, triphala, apamarga, katukarohini, duralabha, kutajatwak.	Saptaparna,ativisha,sha mpaka,musta,ushira,trip hala,patola.	Triphala, sariva,phalini,daruharidra,s halaparni,brihati,nagakeshar a,ela,kushta,vishala.
Rasa	KatuTikta	Tikta,Madhura	Katu,Tikta
Guna	Laghu, Ruksha, Teekshna	Laghu/ ishat guru, ruksha, snigdha	Laghu, ruksha
Veerya	Ushna	Sheeta	Ushna
Vipaka	Katu	Katu	Katu
Karma	Anulomana, Medhya,	Anulomana, Medhya,	anulomana, Medhya

www.wjpr.net

	Agni Deepaka, Sukshma, Srotoshodhaka, Ojasya, Rasayana	rasayana, raktaprasadaka Twachya, kledha hara	brumhana, vrushya, Balya, Varnya Agnideepaka
Doshaghi	ata Kapha- vatashamaka	Pitta- kaphashamana	Tridoshahara, kaphajaunmada

## **Treatment review**

*Ghrita* is the best of all fats, it is one of the *nithyarasayana* mentioned in *Ayurveda* which possess multisystemic benefits. It is a dietary supplement as well as a drug in its purest form and in combination. It is having *madhurasa, snigdhaguna,* provides *mardhuvata, sheetavirya. Ghrita* alleviates *vata* and *pitta* without increasing *kapha* much. It enhances digestive fire, improves eye sight, memory, intelligence, vitalizes the body and gives lusture. It improves semen and ojas. Most highlighted property of ghrita is, it assimilates the property of the drug added to it providing a synergetic action in combination.<sup>[14]</sup>

In Different Pathologies related to *pandu* and *kamala*, The logic of using specific *Ghritas* can be judiciously done after analyzing vitiated *dosha*, *dhatus*, *srotas* etc, as mentioned in table VII and analyzing the specific *ghritas prayoga* in different types of *pandu* and *kamala* based on similar criteria as mentioned in Table VIII and IX respectively.

Rogaawastha	Ghritaprayoga in different rogaawasthas
1. <b>Sneha kshayaawastha:</b> (Adopting SamanyaSidhanta) Rasa Dhatu Avarodharesulting indhatu shaithilyata hence, "swa yoni vardhanadravyaprayoga"	<ul> <li>Vataja, pittaja, kapahajapandu</li> <li>After shodhana in mridbhakshana janya pandu</li> <li>Kosta shakahashrita kamala, as snehapana before snigdha mrudu virechana.</li> </ul>
2. <b>Dhatu kshaya awastha:</b> Eg;Jeernajwara- Manda kapha, vatapittajajwara- Rooksha	<ul> <li>Vatajapandu</li> <li>Pittajapandu</li> <li>Tridoshajapandu</li> <li>Shakahshrita kamala</li> </ul>
3.Ojo Kshayaawastha: Durbalata (weakness), nidra ,tandra (stupor) gatrasada (malaise), balakshaya (reduced strength), sangnyanasha, moha (altered consciousness)	• All types of <i>pandu</i> and <i>kamala</i> according to <i>awastha</i> .
4.As shodananga snehapana	• As <i>poorvakarma</i> before <i>shodhana</i> . To palliate the <i>rookshata</i> of <i>dhatus</i> , to bring the <i>doshas</i> towards the <i>kosta</i> , and <i>vatanulomana</i> .

 Table VII: Logic of Ghrita Prayoga in Different Pathologies of pandu and kamala.

Table VIII: Ghrita prayoga	in different types of <i>Pandu</i> .
----------------------------	--------------------------------------

Types of <i>pandu</i> .[18]	Pathology	Awastha	Ghritaprayoga
Vataja	Dhatu kshaya	Rookshatasnehakshaya	Ideal choice would be panchagavyaghrita due to vatashamaka properties. Also, any of the all above 3 ghritas can be used. <sup>[14]</sup>
Pittaja	Raktha dhatu kshaya & pitta vridhi	Pitta ativridhilakshana	Mahatiktaka ghrita would be ideal choice due to pitta shamaka properties. <sup>[14]</sup>
Kaphaja	Margaawarodha	Kaphavridhi, pitta vriddhi, raktadi dhatu vridhi awastha	Kalyanakaghrita would be ideal and second choice would be panchagavyaghrita due to kaphavatashamana properties. "shlaishmikekaturukshoshna m" <sup>[19]</sup>
Thridoshaja	Kalyanakaghrita would be ideal in kaphapradhanatridoshaawastha. <sup>[14</sup> .		
Mritbhakshanajanya pandu	Ahara rasa apachana, kaphavridhi, margaawarodha	Rakthakshaya, rookshata hence after teekshnashodhana	Panchagavyaghrita would be ideal choice. Whereas, all above 3 ghritas according to dosha awsathas can be used.

## Table IX: Ghrita prayoga in different types of kamala.<sup>[13]</sup>

Shakashrita kamala	Koshtashakashrita kamala
Pathology         □ Pitta margaawarodha by vitiated kapha         □ Vimargagamana (shakha)         □ Dhatu kshaya         Treatment principles         1. Kaphavilayana- channel of Ranjaka pitta         cleared         □ katu (margashodhaka, kapha hara, shota hara, ushna)         □ lavana (pachanadeepanachedana, bedana, ushna)         □ Amlarasa(deepana,pachana,anulomana)         EG; Marichapippali, Matulunga, Shushkamulaka         2. Snehapana: as per dosha/rogiawastha.         3. MriduShodhana: virechana karma.         Eg: GomutraHareetaki.         4. Shamana for Dhatu pusti-         InManda Kapha withVata Pitta Vitiated status-(as mentioned in jwarachikitsa)- For balavardhana-         ghrita to be used.	<ul> <li>Pathology</li> <li>RaktaPradoshajaVikara</li> <li>Ranjaka Pitta Increased koshta and shaka</li> <li>Bahupitta Kamala- Hemolysis (pittaja Pandu)</li> <li>Treatment principles <ol> <li>Eliminate ranjaka pitta from blood- Pittaghnadravya</li> <li>Control production of ranjaka pitta</li> <li>Supports blood formation- relieve pandu.</li> </ol> </li> <li>Procedure <ol> <li>Mruduvirechana- pitta rechana- katutikata rasa</li> <li>Chakradatta-</li> <li>snehapana(arohana) followed by virechana. colorectic action-stimulate gall bladder to release more bile into duodenum- stasis can be removed.</li> <li>Ghrita has raktaposhana, pitta rechana qualities.</li> <li>kalyanakagrita and mahatiktakagrita would be ideal as; drugs possess, taiktarasa with raktashodhaka, asrukpitta hara, rasayana, pandu kamala hara properties hence can be used in this condition.</li> </ol> </li> </ul>

## **RESULT AND DISCUSSION**

*Pandu* is *nidanarthakaravyadhi* for *kamala*. *Pandu roga* is due to vitiation of *rasa* and *raktavahasrotas* whereas *kamala* is *raktapradoshajavyadhi*. As per above references, similarities in manifestation of *pandu* and *kamala roga* are as that of different types of anemia and jaundice respectively depending on different *dosha* and disease *awasthas* which results in or due to impaired liver functions. Administration of ghee has shown to reduce the oxidative stress and have protective effects on liver,<sup>[20]</sup> Ghrita has properties of enhancing benefits of drugs with which it is processed.<sup>[14]</sup>

Dalhana opines that as pandu is pitta pradhanavyadhi, hence ghritaprayoga would be ideal.<sup>[12]</sup> Hence, after judiciously analyzing the disease awsathas, panchagavya, mahatiktaka and kalyanakaghritas can be used in all types of pandu and kamala. Whereas, in vatajapandu during atiruksha awastha, panchagavyaghrita would be ideal for administration. In pittavridhi awastha of pithajapandu, mahatiktaka ghrita would be beneficial. In kaphajapandu, addressing pathology margaavarana for amapachana and agnideepana, kalyanakagritha would be ideal and also panchagavya ghrita administration can be done due to katu, rooksha, ushna gunas and kaphavata shamana properties. In tridoshajapandu depending on dosha awastha ghritas can be selected and ideal would be kalayanakaghrita in kaphapradhana tridoshajaawastha.In mritbhakshanajanya pandu due to raktakshaya and atirukshaawastha, after shodhana therapy,any above mentioned ghritas can be administered but panchagavyaghrita would be ideal due to teekshana and Sukshma properties of drugs in it.

In *shakashrita kamala* during *vatapithavridhi awastha*, for *balavardhana* purpose, *kalyanakagritha* and *panchagavya ghrita* are indicated. In *koshtashakashrita kamala*, depending on *dosha awastha*, for the purpose of *shodhananga snehapana*. *kalyanakaghrita and mahatiktakagrita* would be ideal. As drugs possess, *tiktarasa* with *rakta shodhaka*, *asrukpitta hara*, *rasayana*, *pandukamala hara* properties hence can be used in this condition.<sup>[13]</sup>

### CONCLUSION

Drugs used in *Panchagavyaghrita*, *Mahatiktakaghritha And Kalyanakaghrithas* predominantly possess *tikta rasa*, having special action on *yakrit*. Hence these *yogas* act as *pandu hara, kamala hara, raktajaroganashaka, asruk pitta hara*. Hence, selection and administration of these *ghritas* can be judiciously done in *pandu* and *kamala roga*.<sup>[12,13]</sup>

Panchagavya ghrita can be administered in vatajapandu, kaphajapandu, mrudbakshanajanyapandu and shakhashrita kamala. Mahatikataka ghrita would be ideal to be administered in bahu pitta awsatha of pittajapandu and kostashakhashrita kamala. Kalyanaka ghrita would be ideal to be administered in kaphajapandu, tridoshajapandu, shakhashrita kamala and koshtashakhashrita kamala.

## ACKNOWLEDGEMENT

Author is thankful to the department of kayachikitsa, ALNRMAMC KOPPA for their support and valuable suggestions.

#### REFERENCES

- 1. Pandey Ajay Kumar, Textbook Of kaya chikitsa, Vol 2, Chapter 2, Chaukhambha Publications, New Delhi, First Edition, 2019; 167.
- Susruta, Acharya YT. Susruta Samhita with Nibandhaangraha commentary by Dalhana and Nayachandrikapanjika of GayodasaAcharya on Susrutasamhita of Susruta. Uttarasthana; Pandurogapratisheda: Chapter 44, Verse 3. reprint ed. Varanasi: ChaukambaPubliations, 2014; 728.
- Agnivesha, Charaka Samhita, ChikitsaSthana, Chapter16, verse 34, Ayurveda deepika commentary by Chakrapanidatta. Editor: YadavajiTrikamaji Acharya. Chaukhamba Surabharati Prakashana Varanasi. Edition, 2016; 527.
- Vaidya YadavajiTrikamji Acharya, Sushruta Samhita, Uttar Tantra 44/3, Nibandhsangraha and NyayachandrikaPanjika tika, ChaukhanbaPrakashan, Varanasi, Reprint, 2014.
- 5. Urvi R Dave, Anup Thakar. A clinical study of panduroga w.s.r to iron deficiency anaemia and its management with dhatriyarihta and Pandughna Vati.www.iamj.in volume3; Issue7; ISSN: 2320 5091; July-2015, 1917.
- Kawaljit K. Anaemia 'a silent killer' among women in India: Present scenario. European Journal of Zoological Research, 2014; 3(1): 32-36. 5.9.
- Kumar M, "A Literary Review Of Kamala with special reference to Jaundice" IRJAY.[online], 2022; 5(9); 185—189.
- FARGO V Met all. "Evaluation of jaundice in adults". Am Fam Physician. february 1, 2017; 95(3): 164-168.
- 9. https://www.wikidoc.org/index.php/Jaundice\_epidemiology\_and\_demographic

- Lad vasant. et all. The YOGA of HERBS ed 2<sup>nd</sup>, chapter 9, lotus press unites states of America, 1988; 84.
- 11. https://www.easyayurveda.com /2018/03/25/jaundice-alcoholic -liver-disease/amp/
- 12. Dr. Aruna. Essentials of kayachikitsa. ed 1; chapter 2, sushma graphics mysore sribasavannappahalshetty, 1: 45-76.
- 13. Dr. Aruna. Essentials of kayachikitsa. ed 1; chapter 3, sushma graphics mysore; sribasavannappahalshetty, 1: 77-105.
- 14. Archana Madhavi, Savitha H P, Suhas Kumar Shetty, Arun C H, Gazala Hussain. A critical review on the usage of ghrita in unmade. J Biol Sci Opin, 2016; 4(4): 148-152.
- 15. Shukla V and Tripathi R, Charak Samhita, Uttarardha, Chaukhambasanskritprakashan; chikitsasthan, 2006; 10(17): 251.
- 16. Shukla V and Tripathi R, Charak Samhita, Uttarardha, Chaukhambasanskritprakashan; chikitsasthan, 2006; 7(17): 299.
- 17. Sinimol. T. P. Probable Mode of Action of Kalyanaka Ghrita in Unmada (Insanity) Based on Analysis of Rasa Panchaka of Ingredients-A Review. International Journal of Ayurveda and Pharma Research, 2019; 7(2): 19-30.
- Shastri SN. "PandurogaChikitsaadhyayah". In Carak Samhita 1st edition. Varanasi, IN: Chaukhamba Bharati Acadamy, 2013; 2: 486.
- Dr. Avinash Kumar Mishra, Dr. Sri Nagesh KA. A Clinical Study on Kaphaja Pandu torevalidate it's Chikitsa Sutra w.s.r to GomutraKlinnaHaritaki. J Ayurveda Integr Med Sci 2019; 4: 39-45. http://dx.doi.org/10.21760/jaims.4.4.6
- 20. Chaturvedi, P., Moseki, P., & Mazunga, K.B. Effects of used sunflower oil and ghee (clarified butter) on lipid profile and antioxidants in SD rats, 2016.