

International Journal of Ayurvedic Medicine, Vol 12 (2), 405-408

Ayurvedic management of Koshtashrita Kamala (Hepatocellular Jaundice) - A Case report

Case Report

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Abstract

Kamala is a type of Liver disorder mentioned in our classics. It is caused by vitiation of pitta with the signs and symptoms like Haridra netra (yellow eyes), twak nakha (yellowish skin and nails) and Dourbalya (weakness), based on these clinical features, it can be well understood under the purview of Jaundice. The condition where yellowish discoloration of skin and sclera of the eyes due to high level of serum bilirubin is known as Jaundice. The pitta present in the body aggravates due to specific diet and life style, attains sthana samshraya in koshta due to kha vaigunya, further causes dagdhatwa of Rakta and Mamsa this condition is known as Koshtashirita Kamala. A case presented with Peeta Netrata, Peeta Varnyata Mutra, Aruchi, Agnimandhya etc was diagnosed as Koshtashrita Kamala it was intervened successfully with Shodhana and Shamana oushadi with proper pathya for a period of 11 days. The effect of treatment was assessed based on improvement in clinical signs and symptoms along with Liver Function Test. There was significant improvement in the condition by 60% thus Kamala can be well managed by Ayurvedic intervention.

Key Words: Ayurveda, Jaundice, Kamala, Liver, Pitta, Shodana.

Introduction

Yakrut (Liver) is one among the Koshtanga (organs of body) where the Bhutagni paka (metabolism at minutest level) takes place. It is the seat of Ranjaka pitta and mula (origin) for Raktavaha shrotas(1). Kamala is caused by pitta prakopakara ahara and vihara. The word 'Kamala' is composed of 2 words – 'Ka'/Kaya (body) and 'Mala' (toxins) together forms 'Kamala', which signifies accumulation of toxins in the body. It is classified into 2 types - Koshtashrita Kamala (Hepatocellular jaundice) and Shakashrita Kamala (Obstructive Jaundice)(2). The pitta present in the body aggravates due to specific diet and life style attains vriddhavastha in koshta(3), this condition is named as Koshtashrita Kamala. Aggravated pitta causes dagdhatwa of Rakta and Mamsa(4) leading to Kamala. In Shakhashrita Kamala there is obstruction to the bile passage by Kapha(5).

Jaundice is a condition where there is yellowish discoloration of skin and sclera of the eyes due to high level of serum bilirubin in blood(6). In Hepatocellular Jaundice there will be increased conjugated serum bilirubin and increased urine bilirubin which comes under *koshtagata Kamala*. As the incidence of *Koshtashrita Kamala* is more, the disease is taken up

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for the study. *Virechana* is the first choice of treatment for *pitta pradhana* and *rakta pradhoshaja vikara*. *Kamala* is one such disorder mentioned in classics where *mridhu virechana* with *tikta oushadhas*(7) has prime role to play. When *Ranjaka pitta* gets *sthanasamsraya* in *Urdhwajatru pradesha* mainly in *netra*, *jihwa* and becomes stagnant even after the *virechana karma*, *Nasya* is indicated.

ISSN No: 0976-5921

Objectives

To evaluate the *Ayurvedic* management of *Koshtashrita Kamla*.

Materials and methods

Medicine source- GMP certified company medicine from Sri Dharmasthala Manjunatheshwara College Pharmacy.

Subject source- IPD of Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan, Karnataka, India.

➤ Subjective Parameters

- 1. Peeta Netra (yellowish discoloration of sclera)
- 2. Peeta Mutra (yellowish discoloration of urine)
- 3. Aruchi (Anorexia)
- 4. Agnimandya (loss of appetite)
- 5.Dourbalya (weakness)
- 6.Klama (giddiness)
- 7. Angamarda (bodyache)
- 8. Kandu (Itching)
 - •Normal 00
 - •Mild 01
 - •Moderate 02
 - •Severe 03



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≻Objective Parameters

1. Liver Function Test

Case History

A 70 yrs old male person came to OPD of Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, Hassan, Karnataka, India on 26/6/2020. The subject was apparently healthy 7 days back, gradually he developed *Peeta Netrata*, *Peeta Varnyata Mutra*, *Aruchi*, *Agnimandhya*, *Dourbalyata*, *Klama*, *Angamardha* and *Kandu* with these presenting complaints, he approached our institute for further management. So he was admitted under *Panchakarma* Department.

History of Past Illness

K/C/O Alcoholic since 45 years

K/C/O Type 2 Diabetic mellitus since 2 years on medication Tab Metformin 0-1-0 and

Tab Glimipride 1-0-1

K/C/O Hypertension since 2 years on medication Tab Amlong 5 mg OD

Physical examination

General appearance - ill look Built - moderate Pallor - Absent

Icterus - Present in Sclera

Cyanosis - Absent Clubbing - Present Lympadenopathy - Absent

Ashtavidha Pariksha

Nadi (pulse) – Manda, Vata Pitta

Mala (Stool) — Asamyak pravruthi (irregular) Mutra (urine) — Peeta varnyata (yellowish)

Jihwa (tongue) – Saama (coated) Shabda (sound) – Prakruta (normal)

Sparsha (skin) – Sama shitoshna (normal temperature) Drik (eyes) – Netra peetata (yellowish sclera)

Dashavidha Pareeksha

Prakriti – Vata Pitta
 Sara – Madhyama
 Samhanana – Madhyama

- Satva –MadhyamaSatmya Madhyama
- Vyayama shakti Alpa
- Aharashakthi
 - Abhyavaharana Shakti AlpaJarana Shakti Alpa

ISSN No: 0976-5921

- Vikruti
 - Hetu Madya - Dosha - Pitta Kapha
 - Dushya Rasa, Rakta, Mamsa
 - Desha Jangala
 Kala Vyaktavasta
 Vyadhibala Madhyama

Systemic Examination

Central Nervous System – conscious and well oriented Respiratory System – Normal vesicular breath sound Cardiovascular System – S1 and S2 heard

Abdominal Examination -

- Inspection normal shape, no scars, umbilicus inverted
- Palpation tenderness positive over Right Hypochondrium, Epigastric, Right Lumbar and Iliac region
- Percussion Tympanic Sound
- Auscultation Bowel sound normal 16/min

Nidhana Panchaka

Nidhana - Madhya Purvarupa - Klama, Aruchi

Rupa - Peeta Netrata, Peeta Varnyata Mutra, Aruchi, Agnimandhya, Dourbalyata, Klama,

Angamardha and Kandu

Upashaya - Nothing significant

Samprapti Ghataka

Dosha - Pitta

Dushya - Rasa, Rakta, Mamsa

Ama - Sama Agni - Mandagni

Strotas - Rasavaha srotas, Raktavaha srotas,

Annavaha srotas and Purishavaha srotas Strotodushti - Sanga, Vimargagamana Vyakthasthana - Twak, Netra, Mutra

Adishtana - Yakrut

Diagnosis - Kosthashritha Kamala

Treatment Schedule

Table 1: Intervention planned with Shodhana and Shamana oushadhis

Date	Intervention	Dose and Duration	
26th June Onwards	Shirodhara with Dhanyamla (room temperature)	II mine for 11 days	
26th June -28th June	Tab <i>Kamadugha Mukta</i> 2 BD before food for 3 days		
26th June	Patolakaturohinyadi Kashaya	20 ml TID before food with equal quantity of warm water	
Onwards	Arogyavardhini Vati with Nimba Kalka	2 TID after food 2 gm	
26th June- 1st July	Avipattikara churna	3 gm BD with warm water before food for 6 days	



International Journal of Ayurvedic Medicine, Vol 12 (2), 405-408			
2 nd July - 7 th July	Combination of: Avipattikara Churna (50gms) + Guduchi Churna (20gms) + Pravala Bhasma (5gms)	5gm BD with warm water before food	
	Avapeedana Nasya with Kumari swarasa	6 drops each nostril evening	
	Netra Bhandana with Kumari pulp and Guduchi churna	30 minutes evening	
2 nd July 4 th July 6 th July	Avapeedaka Nasya with Jeemutaka Phala churna 120mg + Go Ksheera 3ml (6 bindu)	3 <i>bindu</i> (1.5ml) in each nostril on empty stomach early in the morning (on alternate days)	

Diet Schedule

Table 2: Pathya ahara niyama

Time Duration	Diet	Quantity
8 AM	Laja Manda	200 ml
11 AM	Yava Mantha	200 ml
2 PM	Peya	250 ml
5 PM	Shunti Kashaya	200 ml
8 PM	Peya	200ml

Pathya – Boiled vegetables, Pomegranate Apathya – Oily spicy food, non veg, curd, bakery food, day sleep and alcohol.

Subject was admitted for 11 days and found relief in generalized weakness, body pain and Icterus was reduced. Appetite and sleep were improved. There were improvements in both Subjective and Objective parameters from Moderate to Mild/Normal.

Table 3: Laboratory Investigations

Table 5. Laboratory investigations					
Date	27/6/2020	30/6/2020	7/7/2020	11/8/2020 (Follow up)	
Total Bilirubin	14.7 mg/ dl	16.8 mg/ dl	11 mg/dl	2mg/dl	
Direct Bilirubin	9.6 mg/dl	9.8 mg/dl	6 mg/dl		
Indirect Bilirubin	5.1 mg/dl	7 mg/dl	5 mg/dl		
Total Protien	6.1 mg/dl	5.1 mg/dl	6.4 mg/dl		
Albumin	3.0 mg/dl	2.9 mg/dl	2.7 mg/dl		
SGOT	917 U/L	1220 U/L	351.7 U/L		
SGPT	728.1 U/L	920 U/L	278 U/L		
ALT	298 U/L	205 U/L	164 U/L		

Since the results were satisfactory along with improvement in the general condition of the subject, hence discharged and *Shamana aushadi* was prescribed for a period of 1 month as mentioned below-

Table 4: Discharge Medicine

Tuble it Elbenti go illeureme		
Medicine	Dose	
Avipathikara Churna (50 gms)	5 gms TID B/F with	
Guduchi Churna (50 gms)	warm water	
Pravala Bhasma (5gms)		
Patolakaturohinyadi Kashaya	30 ml TID A/F with	
	warm water	
Arogyavardhini Rasa	2 TID B/F	
Aloevera Juice	15 ml BD B/F with water	

Results and Discussion

Kamala is a Pitta pradhana Tridhoshaja vyadhi, where Rakta and Mamsa dhatu are involved. Ishat sneha guna of pitta will be aggravated in the body,

thus Rukshana with deepana will help to relieve the condition. Tikta, Kashaya and Madhura rasa Dravya helps in this perspective. Hence, Trivrut (Operculina terpethum (Linn.) Silva Manso), Patola (Tricosanthes dioica(Roxb)) and Katuki (Picrorhiza kurroa (Royle ex are drug of choice for Ruksha virechana. These are the main ingredients in formulations such as Avipattikara churna, Patolakaturohinyadi Kashaya and Arogyavardhini Vati which have been administered in the above case. Even though Bahudoshavasta of Pitta is seen in Kamala, Tikshna Shodhana cannot be administrated due to Ojokshaya and Dourbalya. Hence, Acharya Vagbhata has advised to take out dhushiya pitta in Alpa Pramana but repeatedly. On this note, Avipattikara Churna is administered as Nitya virechaka (Cholegogue).

ISSN No: 0976-5921

Pravala Bhasma (Coral calx) possess Kshariya and Madhura rasa, it is Laghu and sheeta guna. mitigates Tridosha, good appetizer and digestive stimulant. It also helps to improves physical strength and kills many infectious organisms in the body (8).

Guduchi (Tinospora cordifolia (Willd.) Miers) is Tikta Rasa Pradhana dravya(9), prevents fibrotic changes and promote regeneration of Parenchyma tissue. It has membrane stabilizing effect and modulation of kuffer cell activities(10).

Nasya- Ranjaka pitta gets sthanasamsraya in Urdhwajatru pradesha mainly in netra, jihwa and becomes stagnant even after the virechana karma, hence Nasya is indicated.

- Jeemuthaka Nasya When Nasya was administered, intense yellow Rhinorrhoea was observed and patient had 3 episodes of vomiting on first day. There was sufficient reduction in Icterus.
- Kumari Swarasa Nasya- Kumari possess Tikta madhura rasa and sheeta virya(11).

Dhanyamla Shirodhara and Kumari Netra bandhana was effective in Anidrata.

Arogyavardhini vati contains Katuki as main ingredient which has tikta rasa and kaphapittahara karma and Purgative property(12). This formulation is considered as a potent digestive stimulant, anti inflammatory and anti viral property. Extremely effective in treating various liver problems like hepatitis, jaundice and fatty liver. Nimba (Azhadirachta Indica(A.Juss)) has Antioxidant, remove toxins and Anti viral(13). Kamadugha Muktha has sheeta veerya and Pittahara property(14). Patolakaturohinyadiyadi Kashaya acts as mrudu tikta virechaka(cholagogue), removes toxins from blood and liver, hepatoprotective.



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Conclusion

Koshtashrita Kamala is Pitta Pradhana Tridoshaja vyadhi, where Ojas Kshaya is also seen. Hence even though Virechana is a classical line of management for Prakupita Pitta, Tikshna Shodhana cannot be administered. Thus, it is successfully managed by Nitya Virechana, Nasya and other Pittahara Shamanaushadi along with proper pathya and Apathya.

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