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INTERNATIONAL JOURNAL OF DIAGNOSTICS AND RESEARCH**Sangatmak Vikriti (Gall Stones) In Ruddhaphath Kamala
(Obstructive Jaundice) By Evaluating CT Abdomen.**Dr. Deepali Jeetendra Amale¹, Dr.B.D.Dharmadhikari², Dr.Vaibhav Kishanrao Dhage³¹Professor, Guide & H.O.D. of Roganidan Evum Vikruti Vigyan. C.S.M.S.S. Ayurveda Mahavidyalaya and Rugnalaya, Kanchanwadi, Chh. Sambhajinagar.²Associate Professor, Roganidan Evum Vikruti Vigyan. C.S.M.S.S. Ayurveda Mahavidyalaya and Rugnalaya, Kanchanwadi, Chh. Sambhajinagar.³PG Scholar, Roganidan Evum Vikruti Vigyan. C.S.M.S.S. Ayurveda Mahavidyalaya and Rugnalaya, Kanchanwadi, Chh. Sambhajinagar.

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Abstract

Kamala is *Pittaja Nanatmaja* as well as *Raktapradoshaja* Vyadhi. *Kamala* has been classified as *Koshthasrita (Bahupitta Kamala)* and *Shakhasrita (Ruddhaphath Kamala)*. *Ruddapatha Kamala (Shakhashrita Kamala)* is produced due to the obstruction of normal *Pittavaha strotas* by *Kapha* and *Vata*, resulting in *Pitta vridhi* in the *Rakta dhatu*. *Kamala* can be correlated with jaundice in modern medical science according to their resemblance in signs & symptoms. In a CT scan, obstructive jaundice (*Ruddhaphath kamala*) appears as dilated bile ducts within the liver and along the common bile duct (CBD). A CBD diameter greater than 10 mm suggests dilation, indicating obstruction, and the scan will also reveal the location and potential causes of the blockage, such as a mass, gallstones, or inflammation.

Keywords: *Ruddhaphath Kamala*, Obstructive Jaundice, CT Abdomen

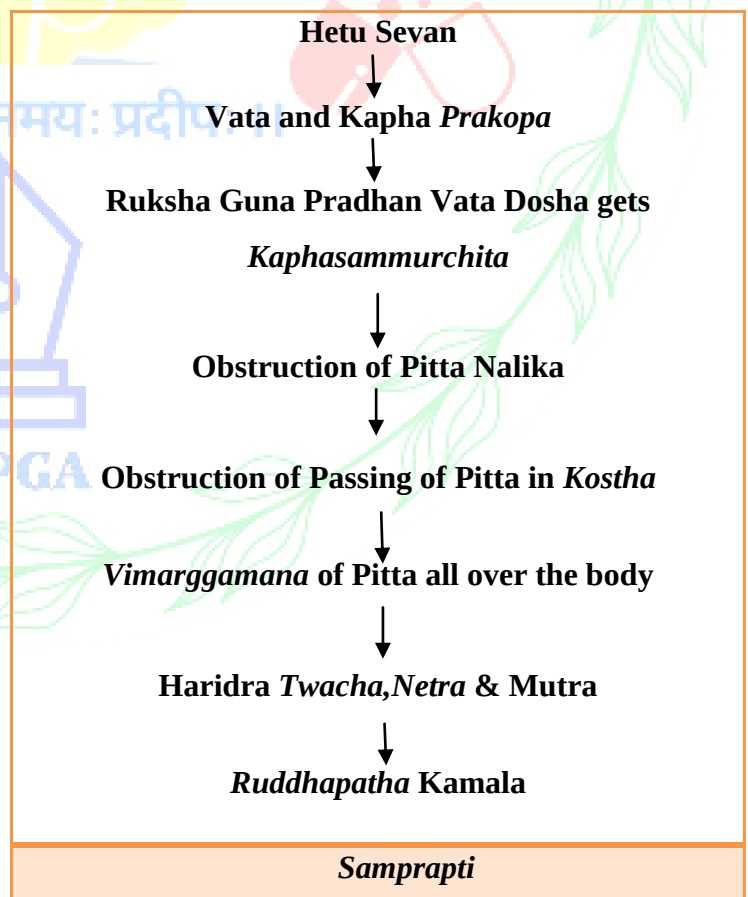
Introduction :

Ayurveda is the oldest system of medicine and philosophy of life. The aim of this science is to maintain *Swasthya* through *Swasthavrittha* & protect human beings from various diseases. In Ayurveda, *Trividha Pariksha* refers to the three-part examination method of *Darshana* (inspection), *Sparshana* (palpation and percussion), and *Prashna* (questioning/interrogation) used to diagnose diseases and assess the patient's condition. *Kamala* is *Pittaja Nanatmaja* as well as *Raktapradoshaja Vyadhi*.^[1] *Charakacharya* has considered *kamala* as advanced stage of *Panduroga*. *Sushrutacharya* has considered *kamala* as a separate disease and also may be due to further complication of *panduroga*. *Vagbhatacharya* described *kamala* as a separate disease. *Kamala* can be correlated with jaundice in modern medical science according to their resemblance in signs & symptoms.^[2] *Kamala* has been classified as *Koshthasrita (Bahupitta Kamla)* and *Shakhasrita (Ruddhpath Kamala)*. In modern science jaundice is classified in three types *Haemolytic*, *Obstructive*, *Hepatocellular*.^[3] *Ruddapatha Kamala (Shakhashrita Kamala)* is produced due to the obstruction of normal *Pittavaha Strotas* by *kapha* and *vata*, resulting in *Pitta vridhi* in the *Rakta dhatu*. In obstructive jaundice, there is same mechanism in which the bile ducts are obstructed by Gall stone or other causes and bile is accumulated in liver, resulting in elevation of blood bilirubin level responsible for yellowness of eye, skin, mucous membrane and stool become clay coloured due to lack of bile in the intestine.^[4] In a CT scan, obstructive jaundice

(*Ruddhpath kamla*) appears as dilated bile ducts within the liver and along the common bile duct (CBD). A CBD diameter greater than 10 mm suggests dilation, indicating obstruction, and the scan will also reveal the location and potential causes of the blockage, such as a mass, gallstones, or inflammation.^[5] According to *Charakacharya*, *Kamala* is a clinical syndrome which develops after the *Pandu Roga*. When a patient of *Pandu Roga* takes excessive *Pittakar Ahara* *vihara* develops *Bahupitta kamala*. According to *Sushrutacharya*, when patient of *Pandu Roga* or person affected with other diseases consumes *Amla Ras Pradhana* and *Apathyakara ahara* develops *kamala*.

Hetu (Nidana) of Ruddhpatha kamala :

1. Excessive intake of *Ruksha*, *Shita*, *Guru* and *Madhur Ahar*. (unwholesome diet)
2. *Ati Vyayam* (excessive exercise)
3. *Vega Nigraha* (stoppage of natural urges).



According to Ayurveda Kapha Sammurchito Vayu involved in pathogenesis of *Ruddhapath Kamala*. Normal Kapha Gunas i.e. *Snigdha, Shlakshnata, & Mrutnata* mainly get vitiated in *Ruddhapath kamla* causing obstruction to Pitta Vahan Karm. Due to this Samanya Pitta cannot function in *Annavaha Strotas* & appears aggravated in *Shakha (Koshtha)*.

Ruddapatha Kamala Lakshanas :

Haridra Netra, Haridra Twaka, Haridra Mutra, Shweta vachas, Tilapishta vachas, Aatopa, Vishtambha, Hridaya Guruta, Daurbalya, Alpagni, Parshwa Arati, Hikka, Shwasa, Aruchi, Jwara.

Modern View of Obstructive Jaundice :

Obstructive jaundice occurs when there is blockage of bile flow from the liver to the intestine, leading to retention of bile pigments in blood.

Clinical Features :

- 1) Yellow discoloration of skin, sclera, mucous membranes (Pitta-Varnata)
- 2) Dark urine (bilirubinuria)
- 3) Pale/clay-colored stools i.e. absence of stercobilin (Shweta Varchastwam)
- 4) Abdominal Pain (Atopa)
- 5) Weakness (Daurbalya)
- 6) Jwara (Fever)

Computed tomography (CT scan or CAT scan) is a non-invasive diagnostic imaging procedure that uses a combination of x-ray and computer technology to produce horizontal, or axial, images (often called slices) of the body. A CT scan shows detailed images of any part of the body, including the bones, muscles, fat, organs, and blood vessels. CT scans are more detailed than standard X-rays.^[6] CT scans of the abdomen can provide more

detailed information about abdominal organs and structures than standard X-rays of the abdomen, thus providing more information related to injuries and/or diseases of the abdominal organs.^[7]

In a CT scan, obstructive jaundice (*Ruddhapath kamala*) appears as dilated bile ducts within the liver and along the common bile duct (CBD). A CBD diameter greater than 10 mm suggests dilation, indicating obstruction, and the scan will also reveal the location and potential causes of the blockage, such as a mass, gallstones, or inflammation.

Aim:

To evaluate the correlation between radiological features observed on CT Abdomen and the Ayurvedic concept of *Ruddhapath Kamala*.

Objective:

- 1) To study and correlate *Ruddhapath Kamala* with obstructive jaundice in details.
- 2) To study CT Abdomen findings in *Obstructive jaundice* in details.

Inclusion Criteria :

1. Diagnosed patient of Obstructive Jaundice.
2. Patient selected irrespective of religion, sex, occupation, socioeconomic
3. Status.

Exclusion Criteria :

1. Patient having Systemic diseases like Uncontrolled Diabetes, Hepatitis, Other metabolic disorders and other severe systemic diseases.

Subjective Criteria :

1. Pita-Varnata (Yellowness of Netra, Mutra, Twacha)
2. Daurbalya (Weakness)

3. *Jwara* (Fever)
4. *Atopa* (Abdominal Pain)
5. *Aruchi* (Loss of Taste)
6. *Agnimandya* (Loss Of Appetite)
7. *Swetha Varchastwam* (Clay-coloured stool)

Objective Criteria :

1. CT Abdomen

Assessment Of Subjective Criteria :

1.Pita-Varnata (Yellowness of Netra, Mutra, Twacha)

Grade	Pita-Varnata (Yellowness of Netra, Mutra, Twacha)
1	Mild yellowish discolouration
2	Yellowish discolouration
3	Dark yellowish discolouration

2. Daurbalya (Weakness)

Grade	Daurbalya (Weakness)
1	Mild weakness after routine work
2	Performed routine work with difficulty
3	Cannot perform routine work

3. Jwara (Fever)

Grade	Jwara (Fever)
1	slight rise of body temperature,minimal symptoms,easily manageable
2	Persistent fever with weakness and loss of appetite
3	high grade persistent fever with severe burning and delirium.

4. Atopa (Abdominal Pain/Bloating)

Grade	Atopa (Abdominal Pain/Bloating)
1	Slight fullness with Pain,discomfort after meals
2	Regular bloating with heaviness,distention with moderate pain not relieved easily.
3	Constant abdominal distension,pain,inability to digest food.

5. Aruchi (Loss of Taste)

Grade	Aruchi (Loss of Taste)
1	Occasional aversion to food
2	Persistent tastelessness,reduced food intake
3	Complete loss of desire for food,associated with nausea,aversion even on seeing food.

6. Agnimandya (Loss Of Appetite)

Grade	Agnimandya (Loss Of Appetite)
1	Slight delay in digestion,reduced appetite
2	Persistent loss of appetite with abdominal heaviness
3	Almost absent digestion,complete anorexia

7. Swetha Varchastwam

Grade	Swetha Varchastwam
1	Slightly pale stool
2	Persistent pale/clay – coloured stool,loss of natural yellow colour.
3	Completely whitish or clay like stools.

Assessment Of Objective Criteria :

Grade	CT Findings	Interpretation
Grade I. – Mild	Slight intrahepatic duct dilation, CBD 7–9 mm	Early or partial obstruction
Grade II – Moderate	Moderate intrahepatic dilation, CBD 10–15 mm	Established obstruction
Grade III – Severe	Marked intrahepatic dilation, CBD >15 mm, upstream liver changes	Long-standing or high-grade obstruction

Methodology :

Study type : An Observational Study.

Study Design :

Diagnosed patient of *Ruddhapath kamala*



Patient enrolled in study and written informed consent obtained



Patient assessed for subjective and objective criteria



Obtained data correlated



Discussion



Conclusion drawn

Study Design

Case Study :**Patient Information:**

Name: XYZ

Age: 43 years **Sex:** Male

History of present illness :

A 43 years old male patient having complaints of Yellowish *discolouration* of Eyes, skin, fever, *generalised* weakness, loss of *apetite*, abdominal discomfort with reduced food intake and loss of natural yellow *colour* of stool since last 6-7 days. he had taken allopathic medication but did not get satisfactory relief hence admitted in *Ayurved Rugnalaya*.

Past History :

No any h/o DM/HTN and other metabolic disorders.

General Examination :

- **Built :** Moderate
- **Height :** 172 cm
- **Weight :** 64 kg
- **Blood Pressure :** 130/80 mmhg
- **Pulse Rate :** 86/min
- **Respiratory Rate :** 20/min
- **Icterus :** Present.

Systemic Examination :

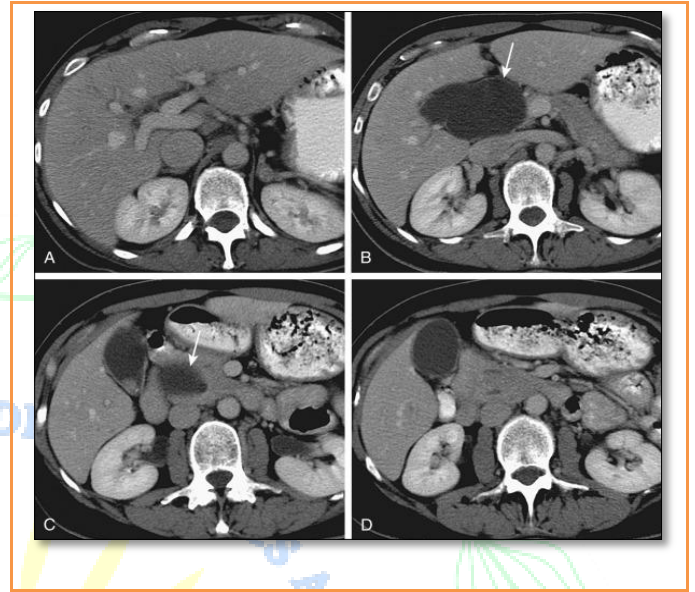
- **CVS – S1S2** *Normal*, No added sound
- **RS –** Normal vascular breathing sounds
- **CNS –** *consiouss* well oriented
- **P/A –** Mildly *distented* with Tenderness in Right Upper Quadrant.

Observations:

Subjective Criteria	Observation In Patient	Grade
Pitta-Varnata (Yellowness of Netra, Mutra, Twacha)	Yellowish discolouration of Eyes, skin since 6 Days	2
Daurbalya (Weakness)	Generalised weakness with difficulty to perform routine work.	2
Jwara (Fever)	Persistent fever with weakness and loss of appetite	2
Atopa (Abdominal Pain/Bloating)	Abdominal fullness, regular bloating with Moderate Pain and discomfort after meals	2
Aruchi (Loss of Taste)	Reduced food intake since 6-7 days	2
Agnimandya (Loss Of Appetite)	Loss of appetite since last 6-7 days.	2
Swetha Varchastwam (Clay- coloured stool)	Clay coloured stool from last 5 days.	2

CT Abdomen Findings:

Observation In Patient	Interpretation	Grade
Moderate intrahepatic dilation, CBD 10–15 mm	Established obstruction.	2

**Discussion :**

Ruddhapath Kamala, though described in ancient Ayurvedic texts, continues to have relevance in modern pathology. Ayurveda perceives diseases through *Doshic* and *Dhatu*-based alterations. Radiological science, particularly through tools like CT Abdomen, gives a clear visual access to such pathologies. This interdisciplinary evaluation allows several key insights:

a. Holistic Understanding of Pathology

Ayurveda identifies the root cause through *Doshic* imbalance and tissue dysfunction. Modern imaging identifies the location, size, and extent of pathology. Together, they offer a complete view — internal cause and external manifestation.

b. Importance of Vata, Kapha and Rakta Dushti

Yakruta is *Moolasthan* of *Raktavaha Srotas*. In *kamala Vyadhi* *kha Vaigunya* at *Yakrut* causes *Avarodha* (*Sangatmak vikruti*) of *Srotas* due to *Kapha Vata Sammurchana*. Modern imaging identifies the location, size, and extent of *Sangatmak Vikruti*. Together, they offer a complete view — internal cause and external manifestation.

c. CT Abdomen Role in Ayurvedic Practice

Though Ayurveda does not originally include imaging, modern practitioners can adopt CT Abdomen as a supportive diagnostic tool to visualize *Shotha, Ashmari* -like conditions. This brings better documentation, prognosis, and cross-referral with modern medicine. CT useful in *Sthanastha* Dhatu Vikruti & stage, pathogenesis can be clearly seen with the help of CT and it helps for better understanding of disease through Ayurvedic perspective.

Conclusion :

The correlation of *Ruddhpath* kamala — a classical Ayurvedic concept of obstruction in normal *Pittavaha Strotas* by Kapha and Vata — with radiological findings seen on CT Abdomen images opens a new realm in diagnostic integrative medicine. CT Abdomen serves as a modern extension of *Darshana Pariksha*, offering visual confirmation of *Doshic* changes described in Ayurvedic texts. This approach not only increases clinical clarity for Ayurvedic practitioners but also fosters interdisciplinary respect and communication. Through conceptual understanding, clinical pattern recognition, and modern radiological validation, *Ruddhpath* kamala can be interpreted, managed, and researched with greater depth and evidence. The future lies in embracing tools like CT Abdomen as supportive, not contradictory, to Ayurvedic thought — thereby building a bridge between Shastra and Science.

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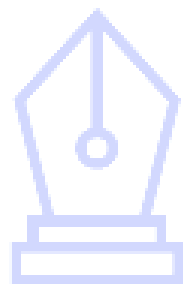
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