

International Journal of Ayurveda and Pharma Research

Case Study

A CASE REPORT ON THE MANAGEMENT OF RESIDUAL CALCULI AFTER CHOLECYSTECTOMY THROUGH AYURVEDA THERAPEUTIC APPROACHES

Afiya M Shoukkath^{1*}, Sreeni T V²

*1PG Scholar, ²Professor and HOD, Department of Rasasastra and Bhaishajya Kalpana, Government Ayurveda Medical College, Tripunithura, Kerala, India.

Article info	ABSTRACT	
Article History:	Cholecystectomy, the surgical removal of the gallbladder, is a commonly performed	
Received: 15-03-2025	procedure worldwide, primarily indicated for symptomatic cholelithiasis and cholecystitis.	
Accepted: 19-04-2025	While the procedure effectively eliminates the gallbladder as a source of stones, it does not	
Published: 15-06-2025	eliminate the risk of calculi entirely. Residual calculi can occur after cholecystectomy,	
KEYWORDS:	although it is relatively rare. If these calculi are identified within two years postoperatively,	
Residual calculi, Gallbladder remnant, Post- cholecystectomy syndrome, Subtotal cholecystectomy.	they are typically classified as residual; if discovered later, they may be termed as recurrent. A 50-year-old female patient with a history of chronic cholecystitis who underwent laparoscopic cholecystectomy four and a half years prior had experienced abdominal pain, which progressively worsened with each passing day and was associated with fever and nausea. She consulted the outpatient department at the Government Ayurveda Medical College, Thiruvananthapuram. The USG abdomen scan revealed multiple internal calculi in a gallbladder-like structure (Gall bladder stump) as a surgical remnant. She was treated with internal medications. She continued the medicines for two years with follow-ups every month, and the stones are completely gone after the due course of treatment. This management approach reveals that Ayurveda can provide promising and effective remedies in the management of residual calculi after cholecystectomy.	

INTRODUCTION

Gallstones with Cholecystitis are categorized under ICD-11: DC11.5. These stones are solidified formations of digestive fluids in the gallbladder, typically resulting from chemical imbalances involving excessive cholesterol or bilirubin. Cholecystitis (ICD11:DC12.0) is the inflammation of the gallbladder wall that usually follows obstruction of the cystic duct by a stone. The worldwide incidence of acute cholecystitis is approximately 6,300 per 100,000 in individuals under 50 years old and 20,900 per 100,000 in individuals over 50 years old. Although not all cholecystitis related occurrences of are to cholelithiasis, more than 90% of patients with acute cholecvstitis gallstones. have Laparoscopic cholecystectomy is currently the preferred treatment for symptomatic cholecystitis.

Access this article online	
Quick Response Code	
	https://doi.org/10.47070/ijapr.v13i5.3712
	Published by Mahadev Publications (Regd.) publication licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0)

However, some patients may continue to experience symptoms such as upper abdominal pain, indigestion (with or without jaundice), even after the surgery. In a small number of cases, postcholecystectomy syndrome may be caused by a retained stone in an unusually long cystic duct or by the recurrence of stones in a remaining portion of the gallbladder. Incomplete removal of the gallbladder is considered rare in traditional open cholecystectomy. However, in the era of laparoscopic surgery, while exact figures are unclear, the rate of unintentional incomplete gallbladder excision appears to be slightly higher compared to open procedures. Studies have shown that incomplete resection can occur in up to 13.3% of laparoscopic cholecystectomies. Contributing factors include limited visibility of the gallbladder bed during the operation, the presence of adhesions, active inflammation, significant bleeding, or anatomical variations such as congenital gallbladder duplication or an hourglass shape caused by adenomyomas. The most frequently observed symptoms were abdominal pain, fever, and jaundice. Less common clinical manifestations included pseudocysts, vomiting, chills, liver abscess, and pancreatitis^[1].

If these calculi are identified within two years postoperatively, they are typically classified as residual; if discovered later, they may be termed as recurrent. The initial diagnosis is primarily made using ultrasound or computed tomography (CT) scans. Further identification of the stones and detailed visualization of the biliary tract were achieved through magnetic resonance imaging/magnetic resonance cholangiopancreatography (MRCP) and endoscopic retrograde cholangiopancreatography (ERCP). In some cases. diagnostic methods include endoscopic ultrasound (EUS), laparoscopic ultrasound, intraoperative cholangiography, and percutaneous transhepatic cholangiography.

The management of residual calculi involves laparoscopic procedures, endoscopic techniques, and open surgery. Laparoscopic approaches may include excision of the remnant cystic duct stump, completion of cholecystectomy, and drainage of any associated pseudocyst. Endoscopic treatments comprise stone extraction, endoscopic papillotomy, extracorporeal shock wave lithotripsy (ESWL), laser lithotripsy, and cholangioscopy-guided lithotripsy^[2].

In Ayurveda, the condition of gallbladder stones can be correlated with 'Pittasava Asmari' (though it is not mentioned as such in the classical Ayurvedic texts), as the gallbladder is *Pittasthana*. The general line of treatment for Asmari begins with Samana Chikitsa; if the condition does not subside, surgical management (Asmari Aharana) is advised. Acharya Susrutha said that before going for surgical procedures, one should try with oral medications like Ghrita (Medicated ghee), Taila (Medicated oil), Paneeya Kshara(medicated alkali preparation), Kwatha or Kashaya (concentrated decoction), etc., which possess properties like Mutrala (diuretic), Vikasi (antispasmodic), Ashmarighna (lithotripsic), Shothaghna (anti-inflammatory) for facilitating the disintegration of the stones^[3].

Diagnosing and treating retained stones can be complex, with the majority of affected patients ultimately requiring surgical intervention. Here, Ayurvedic management approaches have been described in the literature, and this case report aims to present the Ayurvedic management of a 50-year-old patient diagnosed with multiple residual internal calculi in the gallbladder stump, with a history of chronic cholecystitis.

MATERIALS AND METHODS

Patient Information

A 50-year-old female patient presented to Rasasastra and Bhaishajya Kalpana Out Patient Department at the Government Ayurveda Medical College, Thiruvananthapuram, in January 2023, with complaints of moderate colicky type of pain on the right side of the abdomen along with nausea and fever. A USG abdominal scan (on 11/02/2023) revealed the presence of multiple internal calculi in the gall bladder fossa, with the largest stone measuring 9.5mm. The patient was non-diabetic and non-hypertensive with a history of hypothyroidism for the past 16 years and dyslipidemia for the past 3 years. She did not have any dependency on tea, alcohol, smoking, or tobacco in any form.

According to the patient, in November 2020, approximately four and a half years before the OPD visit, she experienced severe colicky pain on the right side of her abdomen, which progressively worsened over time and was accompanied by fever and nausea. She consulted a gastroenterologist at a nearby hospital, who advised an abdominal ultrasound scan. The scan revealed multiple gallstones in the gallbladder, and she was diagnosed with chronic cholecystitis. Additional blood tests showed leukocytosis, elevated serum bilirubin, and abnormal ALP levels. She was also recommended for histopathological examination of the gallbladder. The histopathological report identified that the changes in the tissue are consistent with chronic cholecystitis. Then the patient underwent laparoscopic cholecystectomy surgery in November 2020 and was advised on diet and medications. Two years and two months after the surgical intervention, she experienced persistent symptoms such as moderate colicky-type pain on the right side of the abdomen along with nausea and fever. Given the recurring nature of the condition, the patient sought Ayurvedic treatment, hoping for a holistic approach to manage symptoms, prevent recurrence, and improve her quality of life, particularly concerning the abdominal pain.

Clinical findings

On clinical examination of the abdomen, the abdomen is found to be distended and elicited grade 2 rebound tenderness in the right upper quadrant of the (right hypochondrium) and abdomen in the epigastrium. Deep inspiration, cough, and sharp pain were noticed during subcostal palpation of the right upper quadrant of the abdomen, associated with inspiratory arrest for a short while (Murphy's sign). She is also feeling frequent radiation of pain to the interscapular area, right scapula, and right shoulder. She is also having nausea frequently accompanied by biliary pain. She is also having a feeling of fullness (epigastrial fullness) and intolerance to fatty foods.

The patient was of moderate build, weighing 80kg, pulse rate was 68 beats/min, blood pressure was 110/82 mm Hg, and body temperature was 98.2°F.

Ashtavidha pariksha (eight-fold examination of the patient)

On examination, the *Nadi* (examination of pulse) of the patient was *Kapha-pitta* dominant. On further interrogation, there were *Mutrakrichhra*

(dysuria) and *Malabaddhata* (constipation). *Jihwa* (tongue) was coated, and *Shabda* (hearing) is *Prakrita* (normal), *Sparsa* is *Anushnaseeta*, *Drik* (vision) was *Avila* (morbid), *Aakriti* (body stature) is *Madhyama* (moderate).

Dashavidha pariksha (ten-fold examination of the patient)

Her Sharirika prakriti (somatic constitution) was Kapha-Pitta, Manasa prakriti (mental constitution) was Rajah-tamasa, both Athura and Roga are of Madhyama bala, Sara (excellence of tissue element) was Meda sara, Samhanana (compactness of tissue or organ), and Pramana (anthropometry), Satva (psyche) **Time line** were *Madhyama* (moderate). The *Satmya* (homologation) was *Katu, Amla, Lavana rasa* predominant, *Vaya* (age) was *Madhyamavastha* (middle age). *Ahara shakti* (power of intake and digestion of food): *Abhyavaharana* (power of ingestion), and *Jarana shakti* (power of digestion) were found to be *Madhyama*. *Vyayama Sakthi* is also in a *Madhyama* state.

Therapeutic intervention

The patient underwent a systematic treatment approach, adhering to the *Samprapthi* of the disease. The medicines given in the current case are provided in Table 1.

 Table 1: Detailed timeline of events and therapeutic interventions.

Time frame	Events, observation, and therapeutic intervention.
November 4 2020	The patient experienced severe colicky pain on the right side of her abdomen, which progressively worsened over time and was accompanied by fever and nausea. She consulted a gastroenterologist at a nearby hospital, who advised an abdominal ultrasound scan. The scan revealed multiple gallstones in the gallbladder, and she was diagnosed with chronic cholecystitis. Additional blood tests showed leukocytosis, elevated serum bilirubin, and abnormal ALP levels. The histopathological study of the gall bladder is consistent with chronic cholecystitis.
November 29 2020	The patient underwent laparoscopic cholecystectomy surgery and was advised on diet and medications.
January 3 2023	She experienced persistent symptoms such as moderate colicky-type pain on the right side of the abdomen, associated with fever and nausea. She consulted at Rasasastra and Bhaishajyakalpana Outpatient Department at Government Ayurveda Medical College, Thiruvananthapuram. She was on internal medications for two years, with a follow-up every month.
Internal Medications	given
January 3 to February 11	 Varanadi Kwatha (48 ml): morning daily before food. <i>Trayantyadi Kwatha</i> (48 ml): evening, daily before food. <i>Kanchanara guggulu</i> (250mg): orally twice a day with <i>Kwatha</i> before food. (1-0-1). <i>Kokilaksha Kwatha Choorna</i>: As <i>Paneeya</i> (as drinking water frequently). <i>Pithorin</i> tablet* (Imis Pharmaceuticals): orally thrice a day after a meal with lukewarm water. (1-1-1). Smashit tablet*(Gufic): Orally twice a day (morning and evening) after a meal with lukewarm water. (1-0-1). <i>Trikatu</i> tablet* (Himalaya): Orally twice a day (noon and evening) after the meal with lukewarm water. (0-1-1).
February 11 2024	A USG abdominal scan revealed the presence of multiple internal calculi in the gall bladder fossa, with the largest stone measuring 9.5mm.
February 12 to March 19	 Varanadi Kwatha (48 ml): morning daily before food. Trayantyadi Kwatha (48 ml): evening daily before food. Kanchanara guggulu (250mg): orally twice a day with Kwatha before food. (1-0-1). Kokilaksha Kwatha Choorna: As Paneeya (as drinking water frequently). Pithorin tablet* (Imis Pharmaceuticals): orally thrice a day after a meal with lukewarm water. (1-1-1). Stone GO tablet* (<i>Dindayal Aushadhi</i>): Orally twice a day (morning and evening) after a meal with lukewarm water. (1-0-1). Trikatu tablet* (Himalaya): orally twice a day (noon and evening) after a meal with

Int. J. Ayur. Pharma Research, 2025;13(5):27-34

	Int. J. Ayur. Pharma Research, 2025;13(5):27-34
	lukewarm water. (0-1-1).
March 20 to May 1	 Trayantyadi Kwatha (48ml): Evening daily before food. Patola Katurohinyadi Kwatha (48ml): Evening daily before food. Triphala guggulu (250mg): Orally twice a day before a meal with Kwatha. (1-0-1). Kokilaksha Kwatha Choorna: As Paneeya (drinking water) frequently. Pithorin tablet*(Imis Pharmaceuticals): Orally thrice a day after a meal with lukewarm water. (1-1-1). Trikatu tablet* (Himalaya): Orally twice a day (noon and evening) after a meal with lukewarm water. (0-1-1).
May 2 to June 8	 Varanadi Kwatha (48 ml): Morning daily before food. Veeratarvadi Kwatha (48 ml): Evening daily before food. Kanchanara guggulu (250mg): Orally twice a day before a meal with Kwatha (1-0-1).
June 9 to July 8	 Varanadi Kwatha (48 ml): Morning daily before food. Kaidaryadi Kwatha(48ml): Evening daily before food. Gokshuradi guggulu (250mg): Orally twice a day before a meal with Kwatha (1-0-1). Pithorin tablet*(Imis Pharmaceuticals) Orally thrice a day after a meal with lukewarm water (1-1-1). Smashit tablet*(Gufic): Orally twice a day (morning and evening) after the meal with lukewarm water (1-0-1). Kanmadabhasmam capsule*(Arya vaidyasala Kottakkal): One capsule twice daily, morning and evening before food with Kwatha.
July 9 to August 13	 Varanadi Kwatha (48ml): morning daily before food. Veeratarvadi Kwatha (48ml): evening daily before food. Gokshuradi guggulu (250mg): orally twice a day before a meal with kwatha(1-0-1). Pithorin tablet*(IMIS Pharmaceuticals) Orally thrice a day after a meal with lukewarm water (1-1-1). Trikatu tablet* (Himalaya): orally twice a day (noon and evening) after a meal with lukewarm water (0-1-1).
August 14 to October 4	 Varanadi Kwatha (48 ml): morning daily before food. <i>Trayantyadi Kwatha</i>(48ml): evening daily before food. <i>Gokshuradi guggulu</i> (250mg): orally twice a day before a meal with <i>Kwatha</i>(1-0-1). Pithorin tablet*(IMIS Pharmaceuticals) Orally thrice a day after a meal with lukewarm water (1-1-1). Smashit tablet*(Gufic): Orally twice a day (morning and evening) after the meal with lukewarm water (1-0-1). <i>Trayantyadi Kwatha</i> (48ml): evening daily before food. <i>Chandraprabha gutika</i> (250mg): orally twice a day before a meal with <i>Kwatha</i> (1-
October 5 to November 20	 0-1). 3. <i>Gokshuradi guggulu</i> (250mg): orally twice a day before a meal with <i>Kwatha</i> (1-0-1). 4. Pithorin tablet*(IMIS Pharmaceuticals): orally thrice a day after a meal with lukewarm water (1-1-1). 5. Stone Go tablet* (Dindayal Aushadhi): orally twice a day (morning and evening) after a meal with lukewarm water (1-0-1).
November 21 to December 4	 Varanadi Kwatha (48 ml): morning daily before food. Guggulu tiktaka Kwatha (48 ml): evening daily before food. Madhusnuhi rasayana: 10 gm with hot water at bedtime. Guggulu panchapalam Choorna: 6 gm with Kwatha in the morning and evening before food. Pithorin tablet*(Imis Pharmaceuticals): Orally thrice a day after a meal with lukewarm water (1-1-1).
5 th December 2024	On CT abdominal scan, all the gall bladder stones are completely gone, and she got complete relief from all the symptoms.
Pathya and Apathya	Pathya: Fibre-rich foods, beans, citrus fruits, leafy vegetables.

Afiya M Shoukkath, Sreeni T V. A Case Report on the Management of Residual Calculi After Cholecystectomy Through Ayurveda Therapeutic Approaches

		<i>Apathya: Katu-Amla-lavana rasa pradhana Ahara,</i> tea, coffee, meat pies, unhealthy fats, fried foods, desserts, cake, saussages, untimely intake of foods.
--	--	---

*Proprietary medicines

Diagnostic Assessment

The patient was previously diagnosed with Chronic cholecystitis, followed by laparoscopic cholecystectomy on November 29, 2020. As the symptoms recurred after two years and two months, a further USG abdominal scan was done on February 11, 2023, to assess post-laparoscopic cholecystectomy status. It was found that a gall bladder-like structure measuring 2.1*1.5cm was likely a dilated cystic duct stump/gall bladder remnant with multiple internal calculi, with the largest measuring 9.5mm. However, the liver function test revealed serum bilirubin level of 3.8mg/dl, ALP level of 125mg/dl, and leukocyte count 14000 cells/cumm, which led to the diagnosis of residual internal calculi after cholecystectomy.

OBSERVATIONS AND RESULTS

USG Abdomen (11/02/2023) during the initial stage of Ayurvedic treatment revealed the presence of multiple internal calculi in the gall bladder fossa, with the largest stone measuring 9.5mm. The patient was advised to follow the drug and diet regimen strictly. The condition of the patient was monitored every 30 days. After 30 days of treatment, there was considerable relief in abdominal pain. USG Abdomen after 46 days revealed that the size of the largest internal calculi reduced to 7.1mm.

She continued the medicines thereafter and came for follow-up each month. After two years of treatment, a CT scan of the Abdomen and pelvis, which was taken on December 5, 2024, revealed that the residual calculi are completely gone, a small fluid density area measuring 10 x 7mm noted in the gall bladder fossa. - GB stump and no radio- opaque densities noted within.

DISCUSSION

Still, there is a chance for residual calculus after cholecystectomy, although the condition differs slightly. This may occur due to factors such as bile stasis, incomplete removal of the gallbladder (as in subtotal cholecystectomy), or the presence of a remnant gallbladder. If any part of the gallbladder remains after surgery, it can become inflamed and lead to cholecystitis, even years later^[2]. Here, the treatment adopted is to facilitate the resolution of the stones and relief from the associated complaints. Gallbladder stones are formed due to excess cholesterol or bilirubin in the bile. Therefore, a *Kapha-Pitta-Medo-Hara* line of treatment was adopted in the primary stage, which eventually led to the complete resolution of stones.

The Varanadi inherently gana^[4] is Kaphamedohara in action and also corrects Agnimandhya in the body. Except for Darbha and Shatavari, all the constituent drugs in Varanadi gana have Ushna Veerva. The formulation also has Katu Vipaka. Therefore, it was administered initially to remove Ama by correcting Mandaani. A study has also demonstrated that Varanadi Kwatha is an effective Avurvedic formulation for controlling chronic inflammation-related disorders^[5].

Trayantyadi Kwatha is a formulation described in *Ashtanga Hridayam* for the treatment of *Vidradi, Kamala,* etc.^[6] The drugs in this formulation predominantly contain *Tikta* and *Katu Rasa,* which are effective in alleviating symptoms like *Aviapaka* and *Aruchi.* They pacify vitiated *Pitta Dosha,* promote *Dhatu Poshana,* and reduce *Dourbalya.* The *Tikta Rasa,* being *Rakta Shodhaka* and *Pitta Shamaka,* exerts an action on *Pittashaya Ashmari.* The formulation's hepatoprotective properties contribute to its efficacy in reducing elevated SGOT, SGPT, total and direct bilirubin, bile pigments, and bile salt levels. As *Trayantyadi Kwatha* is inherently *Pittarakta hara,* it acts on *Pittashaya Ashmari* (bile stones)^[7].

Kanchanara Guggulu is a Kapha-Medo-Hara formulation mentioned in *Bhaishajva Ratnavali*^[8]. The ingredients possess properties like Deepana, Pachana, Lekhana, Strotoshodhana, Anulomana, and Kaphawhich can potentially address the shamaka, pathogenesis of residual stones. Guggulu has Deepana, Pachana, and Lekhana properties, alleviating both Vata and Kapha while regulating Agni. Trikatu has Ushna, Tikshna, Laghu, Ruksha Guna, Katu Rasa, Katu Vipaka, and Ushna Veerya properties, making it effective as a Kapha-Vata-shamaka, Deepana, Pachana, Strotovishodhana, and Shothahara drug. Triphala, a popular herbal remedy, promotes bowel movement and has Deepana, Pachana, Vatanulomaka, and Strotoshodhaka potentially correcting Agnimandhya. properties, Studies have demonstrated that Triphala stimulates bile secretion, aids digestion, and reduces serum lipid levels. The combined properties of Kanchanara *Guggulu*'s ingredients may help improve *Agni*, thereby regularizing this disease condition^[9].

Patola Katurohinyadi Kwatha is described in Ashtanga Hridaya and is used to manage Pitta Vikaras and liver disorders^[10]. It contains six ingredients: Patola (Trichosanthes dioica Roxb.), Katurohini (Picrorhiza kurroa Royle Ex Benth.), Raktachandana (Pterocarpus santalinus L.), Murva (Marsdenia tenacissima Roxb.), Guduchi (Tinospora cordifolia Willd.), and Patha (Cissampelos pareira var. hirsute). These herbs possess *Pittagna*, *Kamalahara*, *Vishagna*, Raktaprasadhaka properties. Patola and has demonstrated hepatoprotective and lipid-lowering properties, attributed to its ability to reduce ALT, AST, and ALP levels and repair hepatocytes. The presence of saponins and tannins in Patola may inhibit lipid absorption. *Katurohini* contains iridoid glycosides, cucurbitacin glycosides, and other compounds. contributing to its Tikta Rasa, Laghu-Ruksha Guna, and Katu Vipaka properties. These properties may explain its pharmacodynamic activity in lipid disorders. *Picroside* has shown efficacy in models of liver toxicity, extracts have and Ρ. kurroa demonstrated hepatoprotective activity and increased bile production. *Guduchi* has antihepatotoxic activity, normalizing liver function and reducing liver injury. Studies have shown its effectiveness in restoring altered liver functions (ALT, AST) and morphological changes. The formulation's properties and ingredientspecific activities suggest its potential benefits in resolving calculi^[11].

Triphala Guggulu^[12] contains *Triphala*, which promotes digestion and lowers cholesterol, Pippali, which works against Kapha and reduces fat, and Guggulu, which has Tikta, Katu Rasa, Laghu, Ruksha Guna, and Ushna Virya properties, making it effective in reducing blood lipid levels. The constituents of Triphala Guggulu possess Tikta, Kashava, Madhura Rasa, Ushna Virya, Katu Vipaka, Laghu, Ruksha, Ushna, Tridoshahara, and Shothahara Tikshna Gunas. properties. These properties help relieve Kapha, Vata, and Pitta doshas. Specifically: Tikta, Kashaya Rasa, Laghu, and Ruksha Guna relieve Kapha, Ushna Virya reduces Vata and Kapha, Tikta, Kashava, and Madhura Rasa alleviate Pitta. Triphala Guggulu activates Agni due to its Ushna Virya and Laghu, Ruksha Guna, and reduces Srotorodha due to its Ushna, Tikshna, Laghu Guna, and Ushna Virya. Guggulu's properties make it effective in treating inflammatory conditions due to its Kapha-Vatahara, Kledahara effects^[13].

Kokilakshaka Kwatha, mentioned in the context of *Vatasonita*^[14], can relieve pain and inflammation. Pharmacological studies on *Asteracantha longifolia* indicate its potential in treating various conditions, including inflammatory ailments, hepato-biliary, and kidney disorders^[15].

Veeratarvadi Kwatha is specifically indicated for pain caused by *Ashmari*^[16]. In Ayurveda, *Veerataru* is known for its effectiveness in treating Mootravaha Srotodushti conditions. such as Mutrakruchra. Mutraghata (anuria), Ashmari, and Sharkara. The ingredients of Veeratarvadi Kwatha possess Vatakaphahara properties, including Strotoshodhana, Lekhana, Sophahara, Mootrala, and Bastishodhana,

along with *Deepana-Pachana karma*. These properties help break down the pathogenesis of *Ashmari*^[17].

Kaidaryadi Kwatha is a traditional formulation mentioned in *Chikitsamanjari*, a valuable text for *Vaidyas* in Kerala. The formulation is described in the context of *Mahodara* (ascites) and consists of four ingredients: *Kaidarya, Patola, Sunthi*, and *Haritaki*. It has a specific action on gastrointestinal diseases. Its *Sophahara, Kaphamedohara*, and *Yakrit Prasadana* properties make it effective in treating residual calculi^[18].

Chandraprabha Gutika^[12] is considered *Sarva-Roga-Pranaashini*, curing various diseases. It possesses *Katu, Tikta, Kashaya*, and *Madhura Rasa, Ushna Virya*, and properties like *Laghu, Ushna, Tikshna*, and *Ruksha*. The formulation includes anti-inflammatory ingredients like *Karpoora, Musta, Devadaru, Guggulu, Triphala, Ela, Shilajatu*, and *Makshika Bhasma*, which help reduce pain.

Gokshuradi Guggulu ^[12] contains diuretic, stimulant, and Ashmari Bhedana drugs, which favor the expulsion of calculus. Gokshura (Tribulus terrestris) has Madhura Rasa, Guru-Snigdha Guna, Sheeta Veerya, Madhura Vipaka, and pacifies Vata and Pitta. Both Chandraprapha and Gokshuradi guggulu also have an indication in Asmari, and they will reduce the inflammation^[19].

Guggulu tiktaka grtha^[20] is *Vatahara* and having *Vedana samanatwa*. Here *Guggulu Tiktaka Kwatha* was given. It possesses *Tikta Rasa, Ushna Virya* and *Katu Vipaka*. The *Tikta Rasa* enhances *Dhatvagni* (metabolic activity) and has *Lekhana* properties. The *Ushna* property of *Guggulu* makes it an effective *Vatashamaka* agent. Additionally, its *Ruksha* and *Vishada Guna* properties contribute to its *Medohara* effect. The *Katu Rasa* property facilitates *Deepana*, thereby improving the patient's overall digestive condition^[21].

Charaka asserts, there is hardly any curable disease which cannot be controlled or cured with the aid of *Shilajatu* (*Ch. chi.1-3/65*). *Shilajatu* has a specific localized action on *Ashmari*^[22] also.

Guggulupanchapala Choorna, a compound formulation mentioned in *Bhagandhara Chikitsa*^[23], improves *Jatharagni* due to its *Deepana* and *Pachana* effects. By correcting *Jatharagni* and eliminating *Strotorodha*, the formulation helps normalize vitiated *Doshas*. Its *Ushna*, *Deepana*, *Chedana*, and *Lekhana* properties eliminate vitiated *Kapha* from the *Srotas*, facilitating the outflow of metabolic wastes and preventing future *Srotas* vitiation, resulting in healthy *Dhatu* circulation.

Madhusnuhi Rasayana, mentioned in *Sahasrayoga*^[24] comprising mostly *Agnideepana* and *Tridoshahara* drugs, has *Raktaprasadaka* properties due to *Madhu*. This *Lehya* is having *Srotosodhana*, *Lekhana* and *Rasayana gunas*. Ingredients like *Amalaki, Haritaki,* and *Ashwagandha* act as *Rasayana,* providing *Soolaghna* and *Sarvadhatu Vardhana* effects, which can offer mild nourishment (*Brmhana*) to the body. The *Deepana-Pachana* properties of the drugs correct *Dhatupaka,* ensuring proper nourishment of all *Dhatu* and preventing excessive *Kleda* formation^[25].

Here, the changes made in the formulations during each follow-up are according to the condition of the patient, disease, and associated complaints that are present in the patient due to climatic changes. *Kwatha kalpanas* and some proprietary medicines were used continuously from the beginning. Proprietary medicines were selected by analyzing every ingredient and ensuring the reputation of the pharmaceutical companies.

CONCLUSION

The case report inferred that the patient with residual calculi with a history of chronic cholecystitis, who underwent laparoscopic cholecystectomy, was treated successfully with an Ayurveda holistic approach without undergoing any kind of surgery. Furthermore, it can be stated that Avurvedic management, including Shamana chikitsa, along with strict adherence to Pathya-Apathya, offers excellent results in the treatment of residual calculi. As we know, the gallbladder is a sac that stores bile, and here, the residual stones are present in the remnant gallbladder fossa. Therefore, the stones are difficult to resolve with the medications due to their peculiar formation, and so the direct drug action is limited. A promising result with traditional Avurvedic medicine offers hope in curing residual calculi while preserving normal bodily conditions. As it is a single case study, the results obtained here cannot be generalized. Therefore, these results can be further revalidated on a larger population to see the efficacy of Avurveda's holistic treatment on residual internal calculi as an alternative to surgery.

Declaration of patient consent

Authors certify that they have obtained patient consent form, where the patient has given her consent for reporting the case along with the images and other clinical information in the journal. The patient understands that her name and initials will not be published and due efforts will be made to conceal her identity, but anonymity cannot be guaranteed.

Patient perspective

I was suffering from severe pain on the right side of the abdomen, which progressively worsened over time and was accompanied by fever and nausea, four and a half years before. I consulted a gastroenterologist at a nearby hospital. The doctor advised an abdominal ultrasound scan. The scan revealed multiple gallstones in the gallbladder, and I

was diagnosed with chronic cholecystitis. After three weeks, I underwent laparoscopic cholecystectomy surgery and was advised on diet and medications. After 2 years, I experienced persistent symptoms such as pain on the right side of the abdomen, fever, and nausea. At that time, I was afraid to take allopathic treatment because of the recurrence of the symptoms even after surgery. Then I visited the Government Avurveda Medical College Hospital. Thiruvananthapuram. I took an abdominal ultrasound scan. The scan revealed multiple stones in the gallbladder stump. Then the doctor advised me to take the internal medications and also advised me to follow some diet plans. I used to take follow-ups every month, and the doctor had revised the medicines in each visit. I continued the medicine for one year. After one year (December 2024), on CT scan of the abdomen, it was found that all the stones in the gallbladder stump were gone. I got complete relief from the abdominal pain, nausea, and fever. I am very happy and satisfied with the Ayurveda treatment as I have gotten my healthy life back without undergoing any surgery.

REFERENCES

- 1. Dan L. Longo et al, Editors. Harrison's Principles of Internal Medicine. 2012. 2615–2623 p.
- Chowbey P et al. Residual gallbladder stones after cholecystectomy: A literature review. J Minim Access Surg. 2015 Oct-Dec; 11(4): 223-30. doi: 10.4103/0972-9941.158156. PMID: 26622110; PMCID: PMC4640007. PubMed. 2015;
- 3. K.R Srikantha Murthy. Susrutha Samhitha; Chikitsasthana; Asmari cikitsa Adhyaya. Ch.7, Ver.3. Varanasi: Chaukhambha Orientalia; 2017. p.95.
- 4. T.Sreekumar. Ashtanga Hridayam sutrasthana chapter 15, verse 22. 5th ed. Vol. 1. Thrissur: Harisree Hospital; 2015. 332–333 p.
- 5. J. U. Chinchu et al. Evaluation of anti-inflammatory effect of Varanadi Kashayam (decoction) in THP-1-derived macrophages. Ayu. 2018 Oct;
- 6. K.R Srikantha Murthy. Ashtanga Hrdayam Chikitsa sthana; ch 13, ver.11-12. Vol. 2. Chaukhambha press, Varanasi; 2018.
- 7. Akshata et al. A clinical comparative study of Patolakaturohinyadi Kashaya and Trayantyadi Kashaya in Koshtashakhashrita Kamala w.s.r. to Hepatocellular Jaundice. Journal of Ayurveda and Integrated Medical Sciences. 2023 Dec.
- 8. Kanjiv Lochan. Bhaishajya Ratnavali. Varanasi: Chaukhambha press; 2014. 721 p.
- 9. Pooja Komb et al. Evaluation of effect of Kanchanar Guggul in Sub-clinical Hypothyroidism with respect to Agnimandya.

- T Sreekumar. Ashtanha Hridayam, Sutrasthana, ch.15, verse 15. 5th ed. Vol. 1. Thrissur: Harisree Hospital; 2015. 328 p.
- 11. Prakash Ashok Kumbar et al. An Ayurvedic Management of Cholelithiasis- A Case Report. International Journal of Ayurvedic Medicine, Vol 12 (2), 379-382.
- 12. G.Prabhakar Rao. Sarangadhara samhitha, Madhyama khanda, ch, 7, verse 82-83. Varanasi: Chaukhambha press; 2016.
- 13. Neelam Rawat et al. An over view of Triphala guggulu and its ingredients. Ayushdhara. 2023 Feb.
- 14. K.R.Srikantha Murthy. Ashtanga Hridayam, Chikitsa sthana, ch 22, ver 18-19. Vol. 2. Varanasi: Chaukhambha press; 2018.
- 15. Neelam Rawat et al. Kokilaksha: A potential Ayurvedic herb: IJRAP. 2012 Dec.
- T. Sreekumar. Ashtanha Hridayam, Sutrasthana, ch.15, verse 24-25. 5th ed. Vol. 1. Thrissur: Harisree Hospital; 2015. 333–334 p.
- 17. Rakesh Meena et al. A case study on role of Veertarvadi gana kashaya in the management of vatashtheela (bph); World journal of pharmaceutical and medical research; 2018 Jan.
- D.Sreeman Namboothiri. Chikitsa manjari. Vidyarambham Publishers, Alappuzha, Kerela; 2013. 279–281 p.

- 19. Poornasri Jagani. A Critical Review on Chandraprabha Vati - An Ayurvedic Formulation; Journal of Ayurveda and Integrated Medical Sciences. 2022 Dec;7.
- 20. K.R.Srikantha Murthy. Ashtanga Hrdayam, Chikitsa sthana, ch 21, ver 58-61. 2018; 2.
- 21. Dr. Kavitha et al. Clinical study on Sandhigata Vata w.r.s. to Osteoarthritis and its management by comparing the efficacy of Samananga Sneha and Samananga Sneha with Shadanga Guggulu; Journal of Ayurveda and Integrated Medical Sciences. 2022 Sep.
- 22. Pt. Kashinath Shastri. Charak Samhita, Hindi Commentary "Vidyotini" Chaukhambha Bharti Academy, Varanasi, Ch. Chi. page48, verse1-3/65. 2011.
- 23. K.R.Srikantha Murthy. Ashtanga Hridayam, Utharasthanam, ch.28, ver.40. Varanasi: Chaukhambha press.
- 24. K.V Krishna Vaidyan. Sahasrayogam Sujanapriya commentary. Vidyarambham Publishers, Alappuzha, Kerela; 2019.
- 25. C.h. Rajani Santosh NB. Comparative clinical study to evaluate the effect of Madhusnuhi rasayana and Shivagutika in Kitibha kushta w.s.r. to psoriasis; Journal of Ayurveda & Holistic Medicine. 2023 Apr.

Cite this article as:

Afiya M Shoukkath, Sreeni T V. A Case Report on the Management of Residual Calculi After Cholecystectomy Through Ayurveda Therapeutic Approaches. International Journal of Ayurveda and Pharma Research. 2025;13(5):27-34. https://doi.org/10.47070/ijapr.v13i5.3712

Source of support: Nil, Conflict of interest: None Declared

*Address for correspondence Dr. Afiya M Shoukkath PG Scholar, Department of Rasasastra and Bhaishajya Kalpana, Government Ayurveda Medical College, Tripunithura, Kerala, India. Email: afiyamshoukkath@gmail.com

Disclaimer: IJAPR is solely owned by Mahadev Publications - dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. IJAPR cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of IJAPR editor or editorial board members.