

World Journal of Pharmaceutical and Life Sciences

www.wjpls.org

Impact Factor: 7.409 Coden USA: WJPLA7



CLINICAL OUTCOMES OF AYURVEDIC TREATMENT IN PANCREATITIS: A CASE STUDY

Acharya Manish¹, Dr. Gitika Chaudhary*², Dr. Richa³, Dr. Vikas Saini⁴, Dr. Tanu Rani⁵

¹Director, Meditation Guru, Jeena Sikho Lifecare Limited, India.

²Senior Consultant, General Surgeon, BAMS, PGDIP, PGDGS, MS (Ayurveda), Jeena Sikho Lifecare Limited, India.

³Senior Research Officer, BAMS, PGDIP, CICR, CAIM, CMW, Jeena Sikho Lifecare Limited, India.

⁴Consultant, BAMS, Jeena Sikho Lifecare Limited Hospital, Surat, Gujrat, India.

⁵Research Associate, BAMS, Jeena Sikho Lifecare Limited, India.



*Corresponding Author: Dr. Gitika Chaudhary

Senior Consultant, General Surgeon, BAMS, PGDIP, PGDGS, MS (Ayurveda), Jeena Sikho Lifecare Limited,

India. DOI: https://doi.org/10.5281/zenodo.17813884



How to cite this Article:- Acharya Manish1, Dr. Gitika Chaudhary*2, Dr. Richa3, Dr. Vikas Saini4, Dr. Tanu Rani5. (2025). CLINICAL OUTCOMES OF AYURVEDIC TREATMENT IN PANCREATITIS: A CASE STUDY. World Journal of Pharmaceutical and Life Science, 11(12), 348–356.

This work is licensed under Creative Commons Attribution 4.0 International license.

Article Received on 05/11/2025

Article Revised on 25/11/2025

Article Published on 01/12/2025

ABSTRACT

Pancreatitis is an inflammatory condition of the pancreas that can be acute or chronic, requiring different management strategies based on severity. Acute pancreatitis typically demands supportive care such as fluid resuscitation, pain control, and early enteral nutrition, while antibiotics are reserved for confirmed infections. Chronic pancreatitis management emphasizes alcohol abstinence, a low-fat diet, pain control, enzyme supplementation, and sometimes surgery. Despite treatment advances, persistent symptoms and complications are common. Ayurvedic medicine offers promising complementary strategies. Classical therapies like Virechana, Basti, and Ayurvedic formulations have shown improvements in symptoms and enzyme normalization. Observational studies documented a 93% reduction in attack frequency and a 97% drop in emergency hospitalizations with Ayurvedic interventions. Ayurveda views pancreatitis as Agnimandya with Ama and Pitta Doṣha vitiation affecting the Annavaha and Raktavaha srotas, managed through Shamana and Shodhana therapies. At Jeena Sikho Lifecare Limited Hospital, Surat, Gujrat, India, a 41-year-old male with pancreatitis showed significant improvement after Ayurvedic management. Symptoms like diarrhea, weakness, and insomnia resolved, and CA-19-9 levels dropped from 215.72 U/ml to 57.50 U/ml. This case highlights Ayurveda's potential in managing pancreatitis and suggests the need for further structured studies.

KEYWORDS: Pancreatitis, Ayurveda, Madhumeha, Deepan-pachan, Agnimandya and Ama.

INTRODUCTION

Pancreatitis is an inflammatory condition of the pancreas that may present as either acute or chronic disease, and its management varies considerably based on severity and chronicity. Effective treatment is crucial to prevent complications and enhance patient outcomes. Acute pancreatitis typically requires supportive care, including fluid resuscitation within the first 24 hours, effective pain control, and early initiation of enteral nutrition. Antibiotics are reserved for cases with confirmed infection or systemic inflammatory response syndrome. [2] Interventional procedures like endoscopic biliary decompression or surgical management may be

necessary for complications.^[2,3] In chronic pancreatitis, the focus shifts to long-term strategies such as alcohol abstinence, a low-fat diet, stepwise pain management, pancreatic enzyme replacement, and in some cases, surgical interventions.^[1,2,4]

Several case reports and observational studies suggest that *Ayurvedic* management may offer significant benefits in pancreatitis, including acute, chronic, hereditary, and autoimmune types. Therapies like *Panchakarma* procedures and classical *Ayurvedic* formulations have shown potential in symptom relief, normalization of pancreatic enzyme levels, and

improvement of overall patient well-being. However, the current evidence remains largely anecdotal, necessitating more robust clinical trials to validate these findings and establish standardized treatment protocols. [5,6,7,8,9]

Modern management of acute pancreatitis primarily centers on supportive measures: aggressive hydration, pain management, and nutritional support are key. [1,2] Antibiotics are reserved for documented infections, and interventions like ERCP (endoscopic retrograde cholangiopancreatography) or surgery are applied selectively. [2,3] For chronic pancreatitis, strategies emphasize lifestyle modification (especially alcohol cessation and dietary changes), pain management, pancreatic enzyme replacement, and sometimes surgical options like drainage or resection. [1,4] Despite these therapies, many patients continue to struggle with persistent symptoms and deteriorating pancreatic function, highlighting gaps in current treatment efficacy.

Ayurvedic treatment has been increasingly recognized for potential to manage pancreatitis effectively, particularly in chronic and recurrent cases. Research shows that Ayurvedic protocols involving Ayurvedic formulations, dietary changes, and lifestyle adjustments can significantly reduce the frequency of attacks and emergency hospitalizations. A study on 1,750 patients documented a 93% reduction in attack frequency and a 97% decrease in emergency visits after one year of Ayurvedic treatment. [10] In hereditary pancreatitis, the use of metal-based Ayurvedic formulations (MBAF) utilizing ATP mechanisms led to a 92.8% reduction in attacks. [5, Importantly, Ayurvedic therapies were reported to be safe with no significant adverse effects. [10,11] Long-term remission exceeding 26 years was observed in some cases, highlighting Ayurveda's potential for sustainable management. [10] The samprapti ghataka [12] of the case is mentioned in Table 1

The Samprapti ghataka

Samprapti Element	Details	
Dosha	Pitta (pradhana), Vata, Kapha	
Dushya	Rasa, Rakta, Mamsa, Meda	
Agni	Mandagni / Vishamagni	
Aam	Present	
Srotas	Annavaha, Rasavaha, Raktavaha, Medovaha	
Srotodushti	Sanga (obstruction)	
Udbhava Sthana	Amasaya / Grahani (stomach/small intestine area)	
Sthana Samshraya	Pittadhara Kala (pancreas area)	
Vyakti Sthana	Pancreas	
Roga Marga	Abhyantara Marga (internal pathway)	

From an Ayurvedic nosological viewpoint, pancreatitis is primarily understood as a disorder of Agnimandya leading to Ama formation and vitiation of Pitta dosha, manifesting in dysfunction of the Annavaha and Raktavaha srotas. Conditions like Pittaja Gulma, Yakṛit-Pliha Vikara, or Kostha-shrita Pitta dushti may correlate clinically. The pathogenesis involves Ama and Pitta vitiation, often complicated by Vata in chronic cases, leading to tissue damage across the Rasa, Rakta, and Mamsa dhatus. Ayurvedic management strategies include Shamana (palliative) and Shodhana (purification) therapies such as Virechana and Basti, supported by formulations that balance *Pitta* and strengthen *Agni*. [13,14] This approach was explored in a case study involving a 41-year-old male with pancreatitis, where Ayurvedic intervention showed promising outcomes.

MATERIALS AND METHODS

I. Case Report

A 41-year-old male visited Jeena Sikho Lifecare Limited Hospital, Surat, Gujrat, on April 3, 2025. His evaluation included a thorough medical history, physical examination, and diagnostics. There was no relevant family history and surgical history. He had a history of Type 2 Diabetes mellitus. He came with the conditions like Diarrhea, general weakness, weight loss, low urine frequency and insomnia. He was diagnosed with Pancreatitis. The *Ashtasthana Pareeksha* during the visit is mentioned in **Table 1.** The basic vitals during the visit is mentioned in **Table 2.** Laboratory investigation results during the treatment period are shown in **Table 3.**

Table 1: The Ashtasthana Pareeksha during the visits.

Parameter	Findings	
Parameter	03-04-2025	
Nadi	Kaphaj Pittaj	
Mala	Atisara	
Mutra	Safena	
Jiwha	Saam	
Shabda	Spashta	
Spashta	Anushna sheeta	
Drik	Avikrit	
Akriti	Madhyam	

Table 2: The Basic vitals during the visits.

Date	03-04-2025	
Blood pressure (mmHg)	100/70 mmHg	
Pulse/ min	86/min	
Weight (Kg)	55 Kg	
SpO2	91%	

Table 3: Laboratory investigation results on during the treatment period (Fig 1).

Parameter	Findings	
Date	13-03-2025	20-04-2025
CA-19-9	215.72 U/ml	57.50 U/ml

An accurately designed Ayurveda and DIP Diet was provided to the patient to complement the Ayurvedic treatments administered for Pancreatitis^[15]:

Treatment Plan

I. Dietary Guidelines

The following dietary recommendations are provided by Jeena Sikho Lifecare Limited Hospital:

ग्रहणीमाश्रितं दोषं विदग्धाहारम्च्छितम्।

सविष्टम्भप्रसेकार्तिविदाहारुचिगौरवैः॥७३॥

आमलिङ्गान्वितं दृष्ट्वा सूखोष्णेनाम्बुनोद्धरेत्। फलानां वा कषायेण पिप्पतीसर्षपैस्तथा॥७४॥

लीनं पक्वाशयस्थं वाप्यामं स्नाव्यं सदीपनैः। शरीरान्गते सामे रसे लङ्घनपाचनम्||७५||

विश्दामाशयायास्मै पञ्चकोलादिभिः शृतम्। दद्यात् पेयादि लघ्वन्नं प्नर्योगांश्च दीपनान्॥७६॥

ज्ञात्वा त् परिपक्वामं मारुतग्रहणीगदम्। दीपनीयय्तं सर्पिः पाययेताल्पशो भिषक॥७७॥

किञ्चित्सन्ध्क्षिते त्वग्नौ सक्तविण्मूत्रमारुतम्। द्व्यहं त्रयहं वा संस्नेहय स्विन्नाभ्यक्तं निरूहयेत॥७८॥

तत एरण्डतैलेन सर्पिषा तैल्वकेन वा| सक्षारेणानिले शान्ते स्रस्तदोषं विरेचयेत्॥**७**९॥

श्द्धं रूक्षाशयं बद्धवर्चसं चान्वासयेत्। दीपनीयाम्लवातघ्नसिद्धातैलेन मात्रया||८०|| निरूढं च विरिक्तं च सम्यक् चैवान्वासितम्। लघ्वन्नं प्रतिसम्भ्क्तं सर्पिरभ्यासयेत् प्नः ||८१||^[16]

Foods to Avoid

- Eliminate wheat, processed and refined foods, dairy, animal-based products, coffee, and tea.
- Avoid eating after 8 PM to promote better digestion and metabolic function.

Hydration

Consume alkaline water 3-4 times a day, along with herbal tea, "living" water, and turmeric water.

Incorporating Millets

- Include five types of millets in your diet: Foxtail, Barnyard, Little, Kodo, and Browntop.
- Ensure that millets are cooked using steel utensils to maintain their nutritional value.

Meal Timing & Structure

- Breakfast (9:00 10:00 AM): Steamed seasonal fruits (equal to the patient's weight \times 10 grams) and steamed sprouts.
- Lunch (12:30 2:00 PM): Steamed salad and cooked millets.
- Evening Snacks (4:00 4:20 PM): Light, nutritious snacks.
- Dinner (6:15 7:30 PM): Same as lunch.

तत्र श्लोकाः

आहारसम्भवं वस्त् रोगाश्चाहारसम्भवाः हिताहितविशेषाच्च विशेषः स्खद्ःखयोः॥४५॥

सहत्वे चासहत्वे च दुःखानां देहसत्त्वयोः[१] । विशेषो रोगसङ्घाश्च धातुजा ये पृथकपृथक्॥४६॥

तेषां चैव प्रशमनं कोष्ठाच्छाखा उपेत्य च दोषा यथा प्रक्प्यन्ति शाखाभ्यः कोष्ठमेत्य च॥४७॥

प्राज्ञाज्ञयोर्विशेषश्च स्वस्थात्रहितं च यत्। विविधाशितपीतीये तत सर्वं सम्प्रकाशितम्॥४८॥^[17]

Special Practices

- Express gratitude before meals to encourage positive
- Sit in Vajrasana after eating to enhance digestion and circulation.

II. Lifestyle Recommendations

Sungazing

Spend 30 minutes in direct sunlight each morning to absorb vitamin D and boost overall health and vitality.

Yoga

Practice yoga daily from 6:00 to 7:00 AM, focusing on flexibility, strength and mental clarity to improve hormonal balance and overall well-being.

• Meditation

Incorporate meditation into daily routine to reduce stress, promote mental clarity and enhance emotional well-being.

Barefoot Walking

Walk briskly for 30 minutes daily, preferably barefoot on natural surfaces like grass, to improve circulation and foster a deeper connection with nature.

Sleep

Aim for 6-8 hours of restful sleep each night to support physical and mental recovery, ensuring the body's systems function optimally. • Consistent Daily Routine

Follow a balanced and structured daily routine that supports equilibrium between meals, physical activity and rest, helping to promote long-term health and vitality.

Medicinal Interventions

The *Ayurvedic* treatment employed in this case included CIRO-CARE, GE-LIV Forte Syrup and Kutjghan Vati. The medications prescribed for the patient during the treatment is outlined in **Table 4.**

Table 4: The medications prescribed for the patient during the treatment.

Medicines	Dosage with Anupana	Ingredients	Therapeutic Effects
CIRO-CARE	1 TAB BD (Adhobhakta with koshna jala)	Kutaki (Picrorhiza kurroa), Nishath (Nysarum aristatum), Kampilak (Sphaeranthus indicus), Patol (Trichosanthes dioica), Makoy (Solanum nigrum), Ajwain (Trachyspermum ammi), Punarnava (Boerhavia diffusa), Sounth (Foeniculum vulgare), Pudina (Mentha piperita), Gokshur (Tribulus terrestris), Draksha (Vitis vinifera), Arjun (Terminalia arjuna), Aloe Vera (Aloe barbadensis miller), Rohitak (Tecomella undulata), Panchkol (Zingiber officinale, Piper longum, Cuminum cyminum, Coriandrum sativum, Terminalia chebula), Jalodari Ras, Yakrdari Loha, Shankh Bhasm.	Pittahara, Shothahara, Raktaprasadana, Vatanuloma, Rasayana, Deepan and pachan
GE-LIV Forte Syrup	10 ml BD (Adhobhakta with sama matra koshna jala)	Bhringraj (Eclipta alba), Kalmegh (Andrographis paniculata), Kutaki (Picrorhiza kurroa), Vidhang (Argyreia nervosa), Nisoth (Operculina turpethum), Daruharidra (Berberis aristata), Chitrak Mool (Plumbago zeylanica), Bhumi Amla (Phyllanthus niruri), and Shadashan (Acorus calamus)	Yakirt shodhana, Pittahara, Mutrala, Vatanuloma, Rasayana, Deepan and pachan
Kutjghan Vati	2 TAB BD (Adhobhakta with koshna jala)	Kutajghansatwa (Holarrhena antidysenterica), Sudh Atis Churn (Aconitum heterophyllum), and Excipients (Gum Acacia, Talcum)	Atisaraghna, Grahaniroga hara, Pittahara, Raktasthambana, Srotoshodhana, Deepan and Pachan

RESULT

Effectiveness of Ayurvedic Treatments: The patient underwent 1 month of Ayurvedic regimen, after the treatment he experienced noteworthy development in symptoms, which denotes the interventions used in the study are effective against Pancreatitis. After the treatment he was well oriented and got relief from symptoms like diarrhea, weakness, low urine frequency and insomnia which shows that the Ayurvedic interventions used in the case study are effective for Pancreatitis. The conditions before and after treatment is mentioned in Table 5.

Table 5: The conditions before and after treatment.

Conditions before treatment	Conditions after treatment	
Diarrhea	Relieved	
Weakness	Reduced	
Weight loss	Maintained	
Low urine frequency	Relieved	
Insomnia (9/10)	Sound sleep (2/10)	

Implications for Future Research

This study focused on a Pancreatitis, yielding promising results. However, due to the small sample size, further research with randomized controlled trials and larger cohorts is needed to confirm the safety, efficacy, and reliability of *Ayurvedic* treatments, helping to establish standardized therapeutic guidelines.

DISCUSSION

Ayurvedic treatment for Pancreatitis offers a viable substitute for conventional medical methods. This case study describes the application of several Ayurvedic treatments to a 41-year-old man who has been diagnosed with Pancreatitis. Samprapti^[14,18,19] of this case study is illustrated in **Fig 2**.



CAUTIONS

Carbohydrate antigen 19-9 (CA 19-9) is neither specific nor sensitive enough to be used as a cancer some individuals do not express CA 19-9. Consequently low values in these individuals are not informative regarding cancer recurrence

Consequency for August 200 and August 200 and August 200 and August 200 and Interpret serum CA 19-9 levels as absolute evidence of the presence or the absence of malignant disease. Use serum CA 19-9 in conjunction with intermation from the clinical evaluation of the patient and other diagnostic procedures.

Some patients who have been exposed to animal antigens, either in the environment or as part of treatment or imaging procedures, may have circulating the environment of the procedures.

reanimal antibodies present. These antibodies may interfere with the assay reagents to produce unreliable results

umor marker results obtained can vary due to differences in assay methods and reagent specificity. Patient results determined by assays using different manufacturers for methods may not be comparable.

ILUTION PROTOCOL:

our lab with kit, manual dilution protocol has been validated for CA 19-9 up to 1:20 dilution and result up to 24000 U/ML. After above dilution, it will one manually and because of Ag-Ab reaction curve it may be erroneous if diluted after validated dilution.

- End Of Report -

For test performed on specimens received or collected from non-NSRL locations, it is presumed that the specimen belongs to the patient identified as labeled on the container/test request and such verification has been carried out at the point generation of the said specime nder. NSRL will be responsible Only for the analytical part of test carried out. All other responsibility will be of referring Laboratory.

Vol 11, Issue 12, 2025. ISO 9001:2015 Certified Journal www.wjpls.org 352

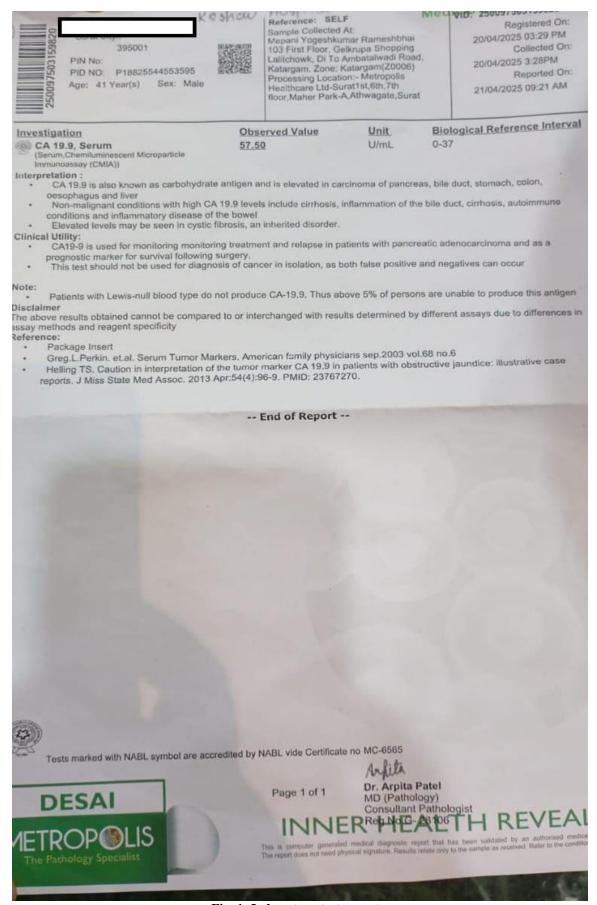


Fig. 1: Laboratory test reports.

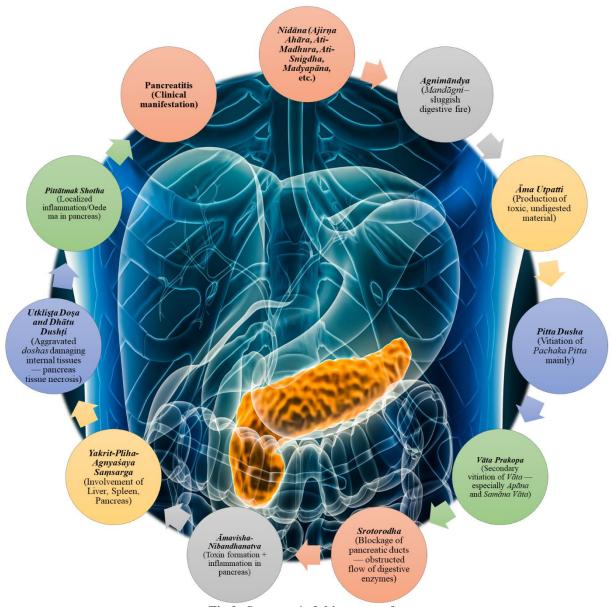


Fig 2: Samprapti of this case study.

During his one month of Ayurvedic treatment, he underwent Ayurvedic therapy regimen. In Ayurveda, the samprapti of pancreatitis primarily begins with the intake of ahita ahara and vihara, such as excessive oily, spicy food and alcohol consumption, leading to agnidushti, especially jatharagni mandya. This state results in the production of ama. The accumulation of ama causes the vitiation of doșhas, mainly pitta and kapha. The vitiated doshas along with ama obstruct the channels (srotorodha), particularly affecting the pathways of digestion (amashaya, paṇḍuvasrotas) and madhyamarga. Consequently, the tissues (*dushyas*) involved, especially rasa dhatu and rakta dhatu, and later meda dhatu become affected, resulting in inflammation localized at the pancreas. Clinically, the manifestation includes udarashoola (abdominal pain), chardi, atisara, jvara, trishna, and other symptoms dominated by pitta and kapha doshas. If untreated, complications can occur

leading to systemic infection and severe *sannipataja* (*tridosaja*) conditions.

For therapeutic management, Ayurvedic formulations like CIRO-CARE, GE-LIV Forte Syrup, and Kutajghan Vati help in breaking this pathological chain (samprapti vighatana). CIRO-CARE, with its tikta rasa and deepana-pachana properties, reduces inflammation (pitta shamana), digests ama (amapachana), and clears obstructed channels (srotoshodhana). GE-LIV Forte Syrup improves jatharagni, pacifies pitta, strengthens the liver and pancreas (rasa-raktadhatu poshana), and clears mild ama. Kutajghan Vati acts as a grahi (absorbent), pachana, and pitta-shamaka, managing atisara and stabilizing intestinal and pancreatic function. Thus, the holistic Ayurvedic approach focuses on stimulating agni (deepana), digesting ama (pachana), clearing channels (srotoshodhana), pacifying pitta and kapha doshas, and restoring tissue health. The samprapti

vighatana is thus achieved by addressing agnidushti, doṣa prakopa, srotorodha, and dhatu dusti in a systematic manner.

This case study highlights the potential benefits of *Ayurvedic* treatment for managing Pancreatitis. *Ayurvedic* treatment, offer a more accessible, costeffective approach, addressing underlying imbalances that contribute to pancreatic dysfunction. While promising, further research is needed to confirm the effectiveness, safety, and reliability of *Ayurvedic* treatments in Pancreatitis management.

CONCLUSION

This case study evaluating the treatment of Pancreatitis through *Ayurvedic* interventions yields the following findings:

Symptoms: Upon visit, the patient presented with diarrhea, general weakness, weight loss, low urine frequency and insomnia. After *Ayurvedic* treatment, significant improvements were observed. The patient reported relief from diarrhea, general weakness, and insomnia, with no new symptoms emerging, suggesting a marked improvement in pancreatitis and overall health.

Vitals and Investigations: There was a notable reduction in diarrhea, general weakness, and insomnia, reflecting positive changes in both lifestyle and diet. The CA-19-9 reduced from 215.72 U/ml to 57.50 U/ml.

In summary, holistic *Ayurvedic* therapies for Pancreatitis showed promising results, including improvements in laboratory test results, vital signs, and symptoms. The *Ayurvedic* treatments appears to alleviate Pancreatitis symptoms, and improve overall health.

REFERENCE

- 1. Preeti, Arora P, Kumar V, Garg D, Rohilla M, Popli P. Prevalence, overview, and treatment strategies for pancreatitis: Review article. J Pharma Insights Res., 2024; 2: 56-62. doi:10.69613/nnhg9218.
- Kujundžić M, Čabrijan Ž, Bokun T. Treatment of pancreatic diseases. In: Duvnjak M, Smirčić-Duvnjak L, editors. Gastrointestinal Complications of Diabetes. Cham: Humana Press, 2018. doi:10.1007/978-3-319-75856-5_19.
- 3. Yang Z, Xia J. Interventional treatment of pancreatitis. In: Li M, Lu L, Xiao Y, Fu D, Zhang H, editors. *Integrative Pancreatic Intervention Therapy*. 1st ed. Amsterdam: Elsevier, 2021; 265-88.
- 4. Ali S, Fatima A, Arshad T. A review on the characterization, causes, and treatment of the pancreatitis disease. Int J Sci Res Sci Technol, 2017; 3(4): 451-461.
- 5. Prakash V, Prakash S, Tiwari S, Negi N. *Ayurvedic* treatment protocol in the management of pancreatitis: A nonrandomized observational study. Int J *Ayurveda* Res., 2024; 5: 205-209. doi:10.4103/ijar.ijar_122_23.

- 6. Prakash V, Negi N, Tiwari S. *Ayurvedic* treatment protocol for hereditary pancreatitis: A case report demonstrating disease arrestation. Cureus, 2023; 15: e42876. doi:10.7759/cureus.42876.
- Singhal H, Sharma R. Ayurvedic management of acute pancreatitis: A case report, 2015; 3: 1572-1576.
- 8. Sawarkar G, Sawarkar P. *Ayurvedic* management of chronic pancreatitis in adolescent girl: A case report. J Pharm Res Int., 2021; 33: 58-67. doi:10.9734/JPRI/2021/v33i33B31797.
- Patil RP, Patil PD, Thakar AB. Panchakarma in autoimmune pancreatitis: A single-case study. Ayu., Oct-Dec. 2019; 40(4): 242-246. doi:10.4103/ayu.AYU_15_20. PMID:33935442; PMCID:PMC8078606.
- Prakash VB, Prakash S, Negi N, Sati ST. Observational research on the effect of an *Ayurvedic* treatment protocol in patients of hereditary pancreatitis. J *Ayurveda* Integr Med., May-Jun. 2024; 15(3): 100913. doi:10.1016/j.jaim.2024.100913. PMID:38762957; PMCID:PMC11126922.
- 11. Singh NK, Sengar A, Khuntia B, Meena A, Babu G. Management of recurrent attacks of pancreatitis through *Ayurveda*. Int J *Ayurveda* Res., 2023; 3: 148-152. doi:10.4103/ijar.ijar_9_22.
- 12. Thacker NS, Monapara K, Soni SA. Single case study–*Ayurvedic* management of chronic pancreatitis–Jirna Pittodara. World J Pharm Res., 2022; 11(8).
- 13. Caraka, Agniveśa. *Caraka Saṃhitā*, with the Āyurvedadīpikā commentary by Śrī Cakrapāṇidatta; edited by Vidyādhara Śukla and Ravi Dutt Tripathi. Varanasi: Chaukhamba Sanskrit Pratishthan; reprint ed. Cikitsāsthāna 15.38–41, 367.
- 14. Madhava. Mādhava Nidāna (Roga Vinischaya), with the Mādhukosha commentary by Vijayarakṣita and Śrīkānta Datta; edited by Vaidya Yadunandana Upadhyaya. Varanasi: Chaukhamba Sanskrit Sansthan; reprint ed. Grahaṇīroga Nidānam (Chapter 4), 219.
- 15. Chowdhury BR. *World's Best, The D.I.P. Diet.* Dr. Biswaroop Roy Chowdhury, 2024.
- 16. Shukla V, Tripathi R, editors. Caraka Samhitā of Agniveśa, with the commentary of Āyurvedadīpikā by Śrī Cakrapāṇidatta, redacted by Dr. D. Bhāvapradīpa. Varanasi: Chaukamba Sanskrit Pratishthan; 2025. Chapter 15: Grahaṇīdoṣacikitsitam, Verses 73-81, 372.
- Shukla V, Tripathi R, Dhabala D. Caraka Samhitā, 28th chapter, Vividhāśitapītīyādhhyāyaḥ; verses 45– 48. In: Śrīcakrapāṇidattaviracita-Āyurvedadīpikāvyākhyayā Sahitā. Varanasi: Chaukhamba Sanskrit Pratishthan, 2024; 433.
- 18. Shukla V, Tripathi R, Dhabala D. *Caraka of Agniveśa*. In: Śrīcakrapāṇidattaviracita-Āyurvedadīpikāvyākhyayā Sahitā. Chapter 28, Vividhāśitapītīyādhhyāyaḥ, verse 7. Varanasi: Chaukhamba Sanskrit Pratishthan, 2024; 429.

19. Arundatta. Aştāngahrdayam. In: Sarvāngasundarākhya Vyākhyā, Hemādripranīta Āyurvedarasaśayanāhvayā Tīkayā. Nidānasthāna, 8th chapter, Atīsāragrahaņiroganidānādhyāyaḥ, verses 15-16. Varanasi: Chaukhamba Sanskrit Pratishthan, 2024.