

# INTERNATIONAL AYURVEDIC MEDICAL JOURNAL



**Case Report** 

ISSN: 2320-5091

Impact Factor: 6.719

# AYURVEDIC MULTIMODAL INTERVENTION IN LEUCOCYTOCLASTIC VASCULITIS - A CASE REPORT

## Naiya A. Patel<sup>1</sup>, Nirali H. Solanki<sup>2</sup>, Sulakshana R. Jaybhaye<sup>3</sup>, Manchak Kendre<sup>4</sup>

<sup>1</sup>PG Scholar, Department of Kayachikitsa, <sup>2</sup>PG Scholar, Department of Kayachikitsa, <sup>3</sup>Professor and Head, Department of Swasthavritta, <sup>4</sup>Professor & Head, Department of Kayachikitsa S.G. Patel Ayurveda Hospital and Maternity Home, New Vallabha Vidya Nagar, Anand, Gujarat-388121, India

Corresponding Author: <a href="mailto:naiva.8012.na@gmail.com">naiva.8012.na@gmail.com</a>

https://doi.org/10.46607/iamj1312042024 (Published Online: April 2024) Open Access © International Ayurvedic Medical Journal, India 2024 Article Received: 11/03/2024 - Peer Reviewed: 31/03/2024 - Accepted for Publication: 12/04/2024.

Check for updates

## ABSTRACT

Leucocytoclastic vasculitis is a complex immune-mediated vasculitis of the dermal capillaries and venules. The annual incidence of biopsy-proven leucocytoclastic vasculitis is approximately 45 per million individuals. An agent used to treat vasculitis include corticosteroids and immunosuppressive drugs. There is no cure for leucocytoclastic vasculitis. A 61-year-old male patient with leucocytoclastic vasculitis was hospitalised and convinced of *Panchakarma* treatment. Based on the *Ayurvedic* concept, the diagnosis was considered *Vatarakta* with *Raktavritta vata*. *Raktamokshana, Virechana* and *Basti* were advised along with *Shaman* and *Rasayana* medications. The result was assessed using a numerical pain assessment scale to subjective and objective parameters. In the present case study, the diagnosis was established based on skin biopsy and clinical features, then treated successfully through multimodal Ayurvedic intervention.

Keywords: Leucocytoclastic vasculitis, Raktavrutta vata, Vata rakta, Yashtimadhu vati

## INTRODUCTION

Leucocytoclastic vasculitis is a complex immunemediated vasculitis of the dermal capillaries and venules.it is characterised by leucocytic fragmentation and fibrinoid necrosis of arteries, veins and venules. Rarely, in 30% of cases, extracutaneous manifestation may occur. Key clinical features of leukocytoclastic angiitis include palpable purpura, lower extremity location, and small vessel involvement. The diagnostic gold standard for this disease is a punch biopsy with direct immunofluorescence studies. Laboratory testing is required for immunemediated disease. In systemic involvement, more extensive work is needed. The annual incidence of biopsy-proven leucocytoclastic vasculitis is approximately 45 per million individuals. The epidemiology of leucocytoclastic vasculitis varies with the underlying etiology. Leucocytoclastic vasculitis occurs in all ages and genders but typically presents in adults. Agents used to treat vasculitis include corticosteroids and immunosuppressive drugs. There is no cure for leucocytoclastic vasculitis.

Treatments are critical for helping to ease symptoms and hinder the progress of the disease. The present case study established the diagnosis based on skin biopsy and clinical features. The patient suffered from pain, burning, redness, mild itching, swelling and stiff feeling in the right lower extremity over the medial aspect of the lower part. The histopathological report showed leukocytoclastic vasculitis. The patient has been receiving treatment from an Allopathic expert since three years. The patient was treated with antihistamine and steroid. Relief and recurrence were observed for up to three years. The patient's clinical symptoms were not responding satisfactorily. The patient observed recurrent fluctuation in symptoms; hence, he assumed about alternative therapies. He wasnotrespondingtoAyurvedic,Homeopathy,Acupunc ture, Naturopathy and Physiotherapy treatments. He approached to the Surajben Govindbhai Patel Ayurvedic Hospital, New V.V. Nagar and started treatment. He is responded to multimodal Ayurvedic intervention.

#### CASE PRESENTATION

A 61-year-old male patient approached for pain, burning, redness, mild itching and swelling over the medial aspect of the lower part of the right lower extremity. On examination, tenderness, hardness, pitting oedema and redness were noted. Aggravation of

redness and burning was observed in standing position and reduced to some extent in lying and footelevating positions. His vitals were normal and he had no associated disease or significant personal or family history. In the year 2020, this patient was suffering from the same clinical presentation in the left leg. He consulted in Allopathy hospital. He was not responding to routine treatment; hence, he was investigated for leucocytoclastic vasculitis. А histopathological report confirmed the diagnosis as a leucocytoclastic vasculitis. The patient was treated with Prednisolone 10mg 12 hourly, Levocetrizine 10mg 24 hourly, Ranitidine 150 mg 12 hourly, Folic acid 12 hourly and calamine lotion 12 hourly for Local application. Relief and recurrence was observed for up to three years. After discontinuation of medication, within a few months, recurrence of the same clinical presentation was observed; hence, the patient tried Ayurvedic, Homeopathy, Acupuncture, Naturopathy and Physiotherapy treatments without relief. The disease was progressive. He approached to the consultant of S.G. Patel Ayurvedic Hospital due to a reference from another patient.

#### **INVESTIGATIONS**

The patient was already investigated, and significant investigations are given here.

#### -ESR (20/02/2023): 44 mm/h

Skin biopsy (left leg) (7/12/2019): The histological findings favour leucocytoclastic vasculitis over the medial aspect of the lower one-third of the left leg. -Venous doppler study of left lower limb (1/06/2023): Mild subcutaneous oedema was noted over the left ankle and foot region. There is no thrombosis in the visualised deep venous system of the left lower limb. Competent left saphenofemoral junctions. Competent perforators in the left lower limb as described above. -USG of local part (1/10/2019): Fat at the site of swelling in the region of the medial aspect of the left lower leg appears hyperechoic, suggestive of panniculitis. Lumen of bilateral posterior tibial arteries and posterior tibial veins are visualised and show spontaneous flow. No evidence of thrombus. Mild athero sclerotic changes were noted in bilateral posterior tibial arteries.

After treatment, investigations regarding leucocytoclastic vasculitis were not advised to assess the changes as the patient was not ready for investigations. Improvement was evaluated by clinical examination.

### MANAGEMENT AND OUTCOME

The patient was hospitalised and convinced for *Panchakarma* treatment. Based on the *Ayurvedic* concept, the diagnosis was considered *Vatarakta* with *Raktavritta vata. Raktamokshana, Virechana* and *Yoga Basti* were advised with *Shaman* and *Rasayana* medications.

*Raktamokshana*: Initially, *Siravyadha* was done from the affected site with the help of 20 number disposable needles with aseptic precautions and 50ml blood was removed.

Virechana:

*Purva karma: Snehapan* with *Mahatiktaka ghrita* was advised daily in increasing dose. 1<sup>st</sup> day 60ml, 2<sup>nd</sup> *Shaman chikitsa:* 

day 80ml, 3<sup>rd</sup> day100ml, 4<sup>th</sup> day 120 ml, 5<sup>th.</sup> day 140 ml for five days at 7 am. After *Samyak snigdha Lakshana*, whole body *Abhyanga* with *Guduchyadi* oil and *Dashamula Kwath Bashpa Sweda* was prescribed for three days.

*Pradhan Karma*: After *Purva karma*, 100 ml *Eranda Sneha* was given to the patient at 9 am. *Samyak virechana Lakshana* were observed without any disturbance in vitals.

Paschat karma: Peyadi samsarjan Kram was advised along with Pathyapathya for five days.

Yoga Basti:

After Samsarjan Kram of Virechana, Yoga basti was advised. Initially, Two Anuvasana basti (Guduchyadi oil 120ml) afterwards, alternate Niruhabasti (Madhu 100ml+Lavan 10gm+Guduchyadi oil 100ml+Phala Kalka 30gm+Amritadi Kashaya 600ml + Gomutra 100ml.) and Anuvasanbasti and at last one Anuvasana basti.

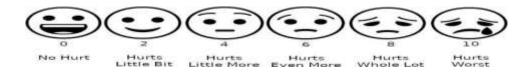
Table no.1

Sir no.	Kalpa	Dose	Sevan kala	Anupana					
1	Kaishor Guggulu	1gm	7am-7pm empty stomach	Lukewarm water					
2	Guduchyadi Kashaya	40ml	,,	>>					
3	Tab. Tenstrim	760mg	,,	>>					
4	Eranda sneha	15ml	10pm empty stomach	,,					
5	Yashtimadhu vati	6gm-9gm-12gm-15gm, increased 1gm per day up to 15 gm/day and continued.							
6	Shatdhaut ghrita	12 hourly for local application							

#### **RESULT:**

The result was assessed using a numerical pain assessment scale to subjective and objective parameters.

## Pain scale:

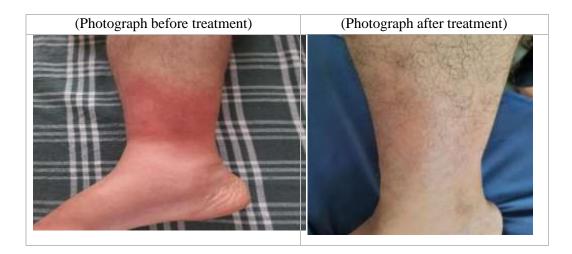


| IAMJ April 2024 |

Sr. no.	Clinical presentation	BT	AR	AS	AV	AY	AYB	F
1	Pain in standing position	08	06	08	06	04	02	0
2	Pain in lying position	06	06	06	06	04	02	0
3	Burning in standing position	08	06	08	06	04	02	0
4	Burning in lying position	06	08	08	08	06	04	0
5	Redness in standing position	08	08	08	08	06	04	0
6	Redness in lying position	08	08	08	08	06	04	0
7	Redness in foot elevation position	06	06	06	06	04	02	0
8	Hardness and tenderness	08	08	08	08	08	02	0
9	Intermittent itching	02	02	02	02	02	02	0

Table no 2:

(Abbreviations: BT- before treatment, AR- after *Raktamokshana*, AS- *after Snehan*, AV- after *Virechana*, AY- after *Yastimadhu vati* (15gm/day), AYB- after *Yogbasti*, F- follow up)



Initially, the pain and the burning grade was 08; after Siravyadha, it was reduced to 06 for one day only. Other clinical findings were unchanged after Raktamokshana. After Snehapan, clinical findings were unchanged. After Virechana, pain and burning grade was reduced to 06, but other findings remain unchanged. After increasing the dose of Yashtimadhu vati (15 gm/day), pain and burning grade was reduced to 04, Redness grade in standing and lying position was reduced to 06, and foot elevation position was reduced to 04.Hardness and tenderness grade was reduced to 6. Other clinical findings were unchanged. After Yoga Basti, pain and burning grade was reduced to 02, Redness grade in standing and lying positions was reduced to 04, and in the foot elevated position, it was reduced to 02. Hardness and tenderness grade was reduced to 02.Intermittent itching grade was same. *Yashtimadhu vati* (15grm/day) and other medication were continued during monthly follow-up.During monthly follow up all findings were wholly relieved.

#### DISCUSSION

In this case, the patient was vaccinated for corona disease. After the outbreak of corona, it was observed that the number of immune-mediated disease cases were significantly increased. This leukocytoclastic vasculitis is also immune-mediated; hence, treatment to normalise immune response was needed. This immune-mediated complex disease has leukocyte fragmentation and fibrinoid inflammatory necrosis of arterioles, capillaries and venules. This pathogenesis in the lower extremities is suggestive of complex Samprapti of Vatarakta with Raktavritta vata; hence, considering these aspects, multimodal Ayurvedic treatment was given to the patient. The patient was not responding to various pathy treatments; thus, the Raktamokshana, Virechana, Yogabasti and Rasayana treatment approach was planned. Siravyadha was done from the affected site to remove Dosha and Dushita rakta through the near most route for symptomatic relief. After 50 ml Raktamokshana, burning, and pain grade was reduced to some extent for one day only.Next day to Siravyadha, Snehapan with Mahatiktak ghrita was started in increasing dose. Mahatiktak ghrita is having Vata rakta and Pitta hara properties. After Samvak Snehapan, Abhyanga was given with Guduchyadi oil and Swedan with Dashamula Kwath Bashpasweda. Snehana will helps to soften the Dhatus, detachment, liquefication of abnormal Dosha and Mala from Dhatus. Swedan helps in liquefication of detached mala dosha, which is need- ed before Shodhan. After this prepreparation, 100ml Eranda sneha was given for Virechana.It helps in Dosha Shodhana. Srotoshodhana and relieve Avaran. After Virechana Peyadi Samsarjan Kram was given to improve Agni strength. After Samsarjan Kram Yoga Basti was advised to correct Vatarakta dushti. Guduchi is Vatashonita Vibandha haranam, Tridosha shaman, and Rasavana, hence preferred in Shaman treatment. Its Rasayan effect will improve immune response. Yashtimadhu is having Pitta Anil Asrajit and Vranashodhana property. It also contains glycyrrhizic acid, which having an anti-inflammatory effect similar to glucocorticoid and mineralocorticoid, which helps to reduce leucocyte fragmentation and fibrinoid necrosis of arteries, capillaries and venules. Its Rasavan effect improves the immune response; hence, Yastimadhu was used as an essential drug, and gradually, the dose was increased up to 15gm per day. Erand Sneha was employed as a Sneha virechana. It has Vatanulomana and Srotoshodhana effects. Tenstrim has Medhya property, which improves Satva guna of Mana and helps to relieve stress. Shatadhauta ghrita was useful for local application. It is having *Dahaprashaman* and *Vata*,

*Rakta* and *Pitta prashaman* effect. The patient improved gradually. Good lifestyle and *Vatarakta Pitta prashamana* light diet and *Rutucharya* were advised during and after treatment for cure and prevention. After treatment, the patient's clinical examination, kidney and liver function tests were advised and were normal hence treatment did not have any adverse effects after prolonged use.

### CONCLUSION

Leucocytoclastic vasculitis can be managed by considering complex Samprapti of *Vatarakta* with *Raktavritta vata* through multimodal *Ayurvedic* intervention without adverse effects. Further evaluation in many patients is needed to bring some concrete conclusion.

#### DECLARATION OF PATIENT

The authors certify that they have obtained appropriate patient consent. The patient has consented for his images and other clinical information to be reported in the journal. The patient is willing to expose his identity, photos, and clinical information for the wellbeing of patients, even though we have tried to keep it concealed.

#### PATIENTS PERSPECTIVE

I was healthy before May 2020. Later on, my health problem started. An itching and burning sensation in the left leg above the ankle joint was in progress; gradually, hardness, tenderness and reddish discolouration emerged. My symptoms were aggravated while standing and reduced to some extent in the supine position. I consulted an Ayurvedic doctor in June 2020 and took medicine but did not get relief. Then, I consulted the homoeopathic doctor, but there was no relief. After that, I consulted an Allopathic doctor in December 2020, and he advised a blood report and skin biopsy, venous Doppler study and USG of the affected part. After the report, he diagnosed as leukocytoclastic vasculitis. I had taken treatment for that and got relief within three months. Again, a recurrence occurred in the Left leg in December 2022, and he started the same treatment. Again, the same problem started in my Right leg in May 2023, and I realise that this steroid treatment is not curative, and

after repeated use, it has adverse effects. My friend told me about a good experience at S G Patel Ayurvedic Hospital; hence, I visited this hospital to consult an Ayurvedic doctor for the same problem. The doctor started *Panchakarma* and *Rasayana* treatment. Gradually, my pain severity was reduced within 30 days. After two months, my other symptoms were also reduced, and the doctor educated me about prevention of recurrence.

### Source of Support: Nil Conflict of Interest: None Declared

How to cite this URL: Naiya A. Patel et al: Ayurvedic multimodal intervention in leucocytoclastic vasculitis - a case report. International Ayurvedic Medical Journal {online} 2024 {cited April 2024} Available from: http://www.iamj.in/posts/images/upload/776\_781.pdf