MANAGEMENT OF VATARKTA (GOUT) IN AYURVEDA: REVIEW

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ABSTRACT

Today’s lifestyle of peoples due to urban life style, stressful schedule, irrelevant diet habit of foods all these factors affects metabolism as well as the health of human and they suffered from lots of metabolic disorders. Gout is one of them known as inflammatory arthritis in men aged above 50. Gout is a heterogeneous disorder that results in the deposition of uric acid salts and crystals around joints and soft tissues. Gouty arthritis comes under the purview of Vatarakta. In comprehensive science anti-inflammatory drugs, NSAIDS and glucocorticosteroid are used to treat the disease, which have a lots of side effect and it is cost effective also. There is need to explore more efficacious and radical cure to this illness. Ayurveda has much potential in such disorders. **Aim:** To review the role of Ayurveda medicines in the management of Vatarakta. **Material and Method:** Here is effort to do by the review of research works done on Vatarakta with herbal medicine and know about the effective treatment of ailment. **Discussion:** Result shows effective improvements in symptoms like Shandhisool, Shotha, Twak Vaivarnya etc. Both Shodhana and Shamana Chikitsa are best in treatment for Vatarakta due to pacifying Vata and Pitta Dosha which are the main cause of pathogenesis of this disease.

**KEYWORDS:** Ayurveda, gout, hyperuricemia, serum uric acid, Vatarakta.
INTRODUCTION
Gout is the most common cause of inflammatory arthritis in human aged more 50, affecting approximately 1-2% of adult men in the western world. The prevalence is 0.12% as per International League of Nations Against rheumatism, Community oriented Program for control of Rheumatic Disease (ILAR COPCORD) study in India.[1] Gout describes a number of disorders in which crystals of monosodium urate monohydrate derived from hyperuricaemic body fluids give rise to inflammatory arthritis, tenosynovitis, bursitis or cellulitis, tophaceous deposits, urolithiasis and renal disease.[2] The status of Vatarakta often compared with Gout in the allied sciences due to outstanding similarities.

Vata is main Dosha because of its control on other two Dosha and six distinguishing features like spreading, quick action, vigour, capacity of vitiate other Doshas and the power to create the maximum number of diseases.[3] Meanwhile it is also assumed that the life of living beings totally depends on Rakta.[4] Vatarakta is association of vitiated Vata and vitiated Rakta.[5] In every Samhita Vatarakta is always explained after Vatavyadhi Chikitsa. It is defined as the condition in which the aggravated Vata is obstructed in the path by aggravated Rakta. In Classics states that it is a disease can starts from Pada Moola sometime it can also starts from Hasta Moola and Ashukari nature of Vata makes the spreading of the disease all over the body similar to rat poison.[6]

In modern treatment, anti-inflammatory drugs, NSAID’s, glucocorticoids are used to treat Gouty Arthritis symptomatically which have many adverse effects particularly in presence of renal insufficiency and gastrointestinal disorders making the disease chronic after prolong usage. Therefore, there is a definite need to explore more efficacious and radical cure to this illness. Ayurveda has much potential in such disorders.

AIMS AND OBJECTIVES
To evaluate the role of traditional medicine to manage the disease Vatarakta.

MATERIAL AND METHODS
Relevant Ayurveda and Modern literature, available information on internet were searched. The result on search is described here after. Here are 6 research works on used different kind of herbal drugs have been conducted.
Criteria for the assessment

<table>
<thead>
<tr>
<th>Sandhishoola (Pain in joints)</th>
<th>• No pain</th>
<th>• Mild pain</th>
<th>• Moderate pain</th>
<th>• Severe pain</th>
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<td>0</td>
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<tr>
<th>Sandhishotha (Oedema)</th>
<th>• Absent</th>
<th>• Mild</th>
<th>• Moderate</th>
<th>• Severe</th>
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<tr>
<th>Kandu (Pruritis)</th>
<th>• No localized itching</th>
<th>• Mild localized itching</th>
<th>• Moderate localized itching</th>
<th>• Severe localized itching</th>
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<tr>
<th>Twak vaivarnya (Discolouration of skin)</th>
<th>• No discolouration</th>
<th>• Mild discolouration</th>
<th>• Moderate discolouration (shiny overlying skin)</th>
<th>• Severe discolouration (coppery discolouration)</th>
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<tr>
<th>Vidaha (Burning sensation)</th>
<th>• No burning sensation</th>
<th>• Mild</th>
<th>• Moderate</th>
<th>• Severe</th>
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Drug Posology

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<tr>
<th>Punarnava Amrita Guggulu</th>
<th>No. of patients – 30, Tab of Guggulu, Amrita, Punarnava, Triphala (1:2:2:3) mixture-500mg tablet administered orally thrice a day with Amritadi Kashaya Anupana 70 ml for each dose for 1 month.</th>
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<tr>
<th>Amrita Guggulu</th>
<th>No. of patients - 30 Amrita Guggulu 500mg administered orally thrice a day with Anupana Amritadi Kashaya 70ml for 1 month</th>
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<tr>
<th>Guduchi Yoga</th>
<th>No. of patients – 30 Guduchi Yoga 2gm (Guduchi Kanda 1.5gm and Trapush juice extract powder 0.5gm) twice a day after food with lukewarm water for Duration of 12 weeks(3 Months).</th>
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<tr>
<th>Guduchi Siddha Yoga Basti and Shiravedha</th>
<th>Group A-Shiravedha twice with an interval of 11days, No. of patients- 20, in Group B-Guduchi Siddha Yoga Basti for 8 days(5 Anuvasana, 3 Niruha), No. of patients- 20 for duration of 24 days</th>
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<tr>
<th>Shodhan and Shaman Chikitsa</th>
<th>No. of patient- case study on 1 patient, 45years old male Shadhana-Nitya Virechana with Eranda oil mixed with milk, Kaishore Gugulu 500mg tab with Luke warm water thrice a day, Dashmoola Siddha Ksheera Paka once in the morning for duration of 40 days.</th>
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RESULT

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<th>Symptoms</th>
<th>Used Drug</th>
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<tr>
<td>Sandhishoola (Joint pain)</td>
<td>66.75%↓</td>
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<tr>
<td>Daha (Burning sensation)</td>
<td>63.63%↓</td>
</tr>
<tr>
<td>Shotha (Swelling)</td>
<td>85.7%↓</td>
</tr>
<tr>
<td>Raga (Redness)</td>
<td>88.75%</td>
</tr>
<tr>
<td>Serum uric acid</td>
<td>38.09%</td>
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By review the all works it shown the results of drugs like Amrita Gugglu showed 66.75% decrease in the Sandhishoola, 63.63% decrease found in burning sensation, 85.5%, swelling was reduce by 85.5%, redness around the joint decrease by 8.75%, and 38.9 % uric acid was fond decrease. The drug Punarnava Amritadi Guggulu decrease Sandhishoola by 65.11%, reduce burning by 87.5%, effective to reduce swelling around joints by 87.5%, decrease redness by 55.55%, and 43.43% decrease the uric acid level. Guduchi Yoga decrease Sandhishoola by 67%, reduce burning by 76.8%, effective to reduce swelling around joints by 50%, decrease redness by 61.7%, and 55.8% decrease the uric acid level. Effect of Kaishore Guggulu Dashmoola Siddha Ksheer Paka with Nitya Virechana shown the effect on Sandhishoola decrease by grade 3 to 0, reduced burning by grade 3 to 1, reduce swelling by grade 3 to 1, reduce redness by grade 3 to 0 and decrease the serum uric acid level by 67.5%. Work on Yogaraj Guggulu with Shiravedha, Virechana was found the effect to reduce Sandhi Shoola by grade 4 to 0, reduced burning by grade 3 to 1, reduce swelling by grade 3 to 1 and decrease the serum uric acid level by 59.9%.

DISCUSSION

Vata Dosha when obstructed by Vitiated Rakta Dhatu, further becomes virulent leads to the abnormality of Rakta Dhatu disease called Vataarakta.<sup>[12]</sup> According to texts Purvaroop of disease includes Atisweda(Excessive perspiration), Asweda(Absence of perspiration), Karshnya(Blackness), Sparshagyatva(Anaesthesia), Kshate Atiruk(Severe pain on injury), Sandhi Shaithilya(Laxity in joint), Aalsaya(Lassitude), Sadan(Malaise), Pidika udgam(Apparance of boils), Hasta pada sandhishu Nistoda(Fricking pain) Sphuran(Quivering) Shunyata(Hyperasthesia) and Kandu(Itching), Twak vaivarna(Altered
Colour of skin), Mandalotpatti (Blisters).\textsuperscript{[13]} Disease Vatarkta had synonyms i.e Aadhyaaroga, Khuddam, Vatabalasa, Vatashonita.\textsuperscript{[14,15,16]}

Aadhyavata - Adhya refers to rich person. This disease is common in rich persons, it is called as Aadhyavata. Khudda – As this disease involves the joints it is called as Khuddavata where this Khudda refers to joints. Vatabalasa – severity of this disease depends up on morbidity of Rakta Dhatu worsened by the obstructed Vayu and hence is known as Vatabalasa.

\textbf{Guduchi Yoga:} In Ayurveda text Amrita (Tinospora Cordifolia) is main drug for Vatarakta.\textsuperscript{[17]} Tinosporine chemical constituents of drug is natural diuretic agent which may aid in the excretion of serum uric acid.\textsuperscript{[18]} Guduchi is having Snigdha Guna that helps to subside Ruksha Guna of Vata. Usually Tikta Ras converts into Katu Vipaka that cause Vibandha, but Guduchi exceptionally having Madhura Vipaka that expels Purisha etc. Tikta Ras subside Rakta and Madhura Vipaka subside Vata.\textsuperscript{[19]} Trapusha (Cucumis sativus) Trapusha attributed Mutrala activity it is helpful in excretion of uric acid and helpful in renal calculi.\textsuperscript{[20]}

\textbf{Amrita guggulu:} Amrita Guggulu have properties to inhibit xanthine oxidase. xanthine oxidase inhibitors decrease the production of uric acid by interfering with xanthine oxidase enzyme.\textsuperscript{[21]} Amrita Guggulu also works for excretion of uric acid through uricosurics. Uricosurics increase the excretion of uric acid by reducing its re-absorption once the kidneys have filtered it out of the blood.\textsuperscript{[22]} Amrita has anti-inflammatory\textsuperscript{[21]} activity of Amrita which reduces the inflammation and symptomatic relief as well as its uricosuric action which excretes excess amounts of uric acid from the body.\textsuperscript{[23]} Amrita also works other symptoms like fever\textsuperscript{[24]} and stone forming tendencies.\textsuperscript{[25]} Guggulu (Commiphora Mukul) has anti-inflammatory\textsuperscript{[26]}, antioxidant\textsuperscript{[27]}, uricosuric\textsuperscript{[28]} and anti-rheumatiodal\textsuperscript{[29]} activities which helps in breaking the patho-physiology of gout. Ingredients of Amrita guggulu, Triphala works as a xanthine oxidase inhibitor\textsuperscript{[30]} like Allopurinol which suppresses the production of uric acid.

\textbf{Punarnava Amrita Guggulu:-} Punarnava (Boerhavia diffusa) has anti-inflammatory\textsuperscript{[31]} action and has also diuretics\textsuperscript{[32]} effect thus decreasing the amount of uric acid in blood. Triphala works as xanthine oxidase inhibitor.\textsuperscript{[33]} Haritaki (Terminalia Chebula) has antioxidant\textsuperscript{[34]} and adoptogenic\textsuperscript{[35]} properties which help in recovery and healing of deformed tissue. Vibhitiaki (Terminalia Bellirica) has nephro-protective function which retards the urolithiasis and dissolves already formed stones in kidney.\textsuperscript{[36]} Amalaki (Phyllanthus Emblica)
having Anti-inflammatory, anti-pyretic, analgesic and antioxidant properties. *Vidanga* (Embelia Ribes) its anti-oxidant properties brings out regenerative changes in the deformed joints due to hyperuricemia induced gout. *Trivrita* (Operculina terpethum) and *Danti* (Baliospermum Montanum) Both have anti-inflammatory and immunomodulatory properties which help alleviating the symptoms of the disease and combating the hyper-immune responses. *Danti* possesses anti-oxidant properties which helps in rejuvenation of the joints along with breaking the pathology of the disease. *Chitraka* (Plumbago Zeylanica) has anti-inflammatory properties thus, helps in subsiding the inflammatory effect of disease.

*Shiravedha* is one such radical treatment especially concerned with Dusta Rakta Nirharan (the macroscopic removal of “morbid blood” from unwanted contexts or situation). In Vatarkta , impairment of purine metabolism, serum uric acid level is high and also there is inadequate excretion i.e. hyperuricemia. Bloodletting is dorsal venous arch causes reduction in uric acid. there may be release of angiotensin hormone which has got renal and adrenocortical stimulatory effect providing excretion of uric acid by kidneys. Local blood supply is improved by blood letting, local metabolism is improved, local drainage system is improved, fresh RBCs are produced which are active. *Guduchi Siddha Yoga Basti:* As Asthidhatu involved in Vatarkta, it is assumed that the drug acting upon Pureeshadhara Kala will certainly act on the Asthidhara Kala, as Kala of both are the same. In addition the active principles of Basti Dravya administered reaches up to the Grahani which is related to both Pittadharakala and Majjadharakala. Hence action of Basti in terms of cleansing and nourishment of Asthi Dhatu, Sandhi Majja etc. and ultimately resulting in Vatashamana. Even more the combined action of Guduchi Siddha Yoga Basti like Mutrala, uricosuric properties increases the excretion of uric acid through urine. 1/3rd of serum uric acid is excreted through the gut and the remaining 2/3rd through the kidneys generally .Basti, because of its laxative action, increases expulsion of uric acid through gut.

*Eranda Tail:* Eranda (Ricinus Communis) Tail is used for Nitya Virechana along with milk after assessing the Kosta of the patient. It helps for Ama Pachana, Rechana and Vata Hara.

*Dashmoola:* Dashamoola is having the property of Kapha Vatahara. It has analgesic, anti-inflammatory, anti-arthritic activity. 10 ingredients in Dashamoola may be serving different roles like adjuvant, carrier agent, stabilizer etc. The results of earlier studies in which Dashamoola has consistently shown efficacy in models of acute inflammation aimed at and
proved the possibility of prostaglandin synthesis inhibition as the probable mechanism of action.\[^{45}\]

**Kaishore Guggulu:** It corrects the metabolism and checks on uric acid production. Further, it corrects the elimination process of uric acid in kidneys and improves kidney functions and helps in excretion of various chemicals through it. *Tikshna* and *Ushna* drugs like *Pippali* (Piper Longum), *Shunthi* (Zinziber Officinale), *Maricha* (Piper Nigrum), *Vidanga* (Embelia Ribes), *Danti* (Beliospermum Montanum), *Guggulu* (Commiphora Mukul) and so on, are present in *Kaishora Guggulu*, which helps in the pacification of *Vata* too which in turn leads to reduced morbidity of symptoms.\[^{46,47}\] This is mainly used as antiallergic, antibacterial and blood purifying properties and usually supports healthy joints (in gout), muscles (in fibromylegia), in back pain and connective tissue.\[^{48}\] *Raktaprasadana.*\[^{49}\] **Chopchini** (Smilex Malabarica) is *Vednahara* (pain relief), *Shothnashaka* (subside inflammation), very effective in *Vatavyadhi* and able to carry drugs in *Sukshma Srotasa* (micro channels). So, it helps in decreasing the pain and facilitates the penetration of drugs to deeper tissues like *Asthi Dhatu*.\[^{50}\] **Guduchighan vati:** It has anti-inflammatory activity and also have *Rasayan* and *Dhatvagni Vardhaka* property.\[^{51}\] **Gandharva Haritaki:** It has purgative and laxative action. It evacuates bowel and removes toxins from the body. *Haritaki* is gental purgative, astringent(promotes the appetite or and assist in digestion), antioxidant and alterative (restoring healthy bodily functions).\[^{52}\] **Gomutra tablet:** it contains concentrated form of *Gomutra* powder and *Triphala*. It has active antifungal, antibacterial and anticancer property. It controls cholesterol level and beneficial for constipation, blood pressure reduce weight.\[^{53}\] *Triphala* have immunostimulatory effect on cytotoxic T cells and natural killer cells. It combats degenerative and metabolic disorders possibly through lipid peroxide inhibition and free radical scavenging.\[^{54}\]

**CONCLUSION**

*Vatarkta* is metabolic disorder according to modern which we can correlate with gout. All results of above mentioned show the noticeable improvement in all symptoms related *Vatarkta* after using *Ayurvedic* medicines. we can say that herbal source is best choice of treatment for management as well as diet and life style modification play a major role to manage of this type of metabolic disorder and it also not costly as well as improve the quality of life of patients.
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