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An efficacy of different Taila used in Janubasti in the management of Janusandhigata Vata - A Systemic Review

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ABSTRACT

Background: Janusandhigata Vata, a pathological condition similar to osteoarthritis of the knee, primarily affects elderly persons due to Dhatukshaya, resulting in pain, swelling, and restricted movement, significantly impacting daily activities. Currently, the treatments of knee osteoarthritis are often symptomatic, expensive and have side effects, making Janubasti a valuable alternative, especially in developing countries. Numerous studies have explored the clinical efficacy of various Taila (medicated oils) used in Janubasti for treating Janusandhigata Vata. This review aims to analyze the effectiveness of these medicated oils in the management of the condition. **Objective**: To review the articles published on Janubasti for the evaluation of the efficacy of various medicated oils utilized in Janubasti for the management of Janusandhigata Vata and improving the healthcare practice. Materials and Methods: The articles are screened from different electronic databases including MEDLINE, Google Scholar, PubMed Central, etc. and clinical trials published till September 30, 2024. using a strategy designed to optimize the open labelled parallel arm randomized clinical trial. The search terms used were Janusandhigata Vata, Janubasti, Taila, arthritis, osteoarthritis. Results: For this purpose, 343 articles were searched, 172 were screened after removal of duplication, 131 were excluded, 42 full text articles were assessed for eligibility. Out of 42 articles 5 were included in review. Conclusion: Janubasti is one of the modalities of treatment commonly adopted in the management of Janusandhigata Vata. Research has shown that Janubasti with Taila gives encouraging results in relieving the signs and symptoms of Janusandhigata Vata.

Key words: Sandhigata Vata, Snehana (Oleation), Medicated oil, Knee osteoarthritis.

INTRODUCTION

Sandhigata Vata is a one of the eighty types of Vata Vyadhi described in various Ayurvedic treatises. The foremost description of Sandhigata Vata is given in Charaka Samhita. Vatapurnadritisparsa (feeling hollowness), Shotha (swelling) and Prasarana Akunchana Vedana (pain during flexion and extension of the joint) are the clinical features of Sandhigata Vata.^[1] Sthansamshraya of vitiated Vata Dosha at Janu

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Sandhi (knee joint) results in the development of a disease termed as Janu Sandhigata Vata. This condition is closely simulating with knee osteoarthritis. The line of treatment for Sandhidata Vata is mainly focused on the alleviation of Vata Dosha. Acharya Charaka explains that vitiated Vata Dosha can be best treated with the use of oil.^[2] Use of Snehana with Swedana over the affected part is also advised in the treatment of Vatavyadhi which alleviates pain, stiffness and improves flexibility.^[3]

Snehana (Oleation) is one of the best treatments for Sandhiqata Vataja Vyadhi because of the Drava, Sukshma, Sara, Snigdha, Manda, Mridu, Guru and other properties of Sneha Dravya which are just opposite to Vata Dosha and pacifies Vata disorders. This treatment modality harnesses the therapeutic properties of various oils to provide relief from pain, inflammation, restricted mobility in the knee joint and nourish emaciated tissue

Janu Basti is a specialized procedure in Ayurveda, especially indicated for Janusandhigata Vata in which

ISSN: 2456-3110

REVIEW ARTICLE November 2024

different types of medicated oils are used as external application. Thus, it can be considered as *Bahirparimarjana Chikitsa*.^[4] Though there is no direct reference and description of *Janu Basti* in classical Ayurvedic texts, it acts as a supportive ayurvedic therapy.

Current medical approaches to osteoarthritis are categorized into non-pharmacological, pharmacological, and surgical interventions, all of which predominantly offer symptomatic relief and are associated with adverse side effects. Additionally, these treatments can be prohibitively expensive or inaccessible, particularly in developing countries. In this context, the application of various medicated oil in *Janubasti* therapy emerges as a viable treatment option. Despite extensive research on osteoarthritis, the search for more effective interventions continues to be pertinent.

Numerous studies have been conducted nationwide to evaluate the clinical efficacy of *Janubasti* preparations in treating *Janusandhigata Vata*. The present review aims to analyze the effectiveness of various medicated oils utilized in *Janubasti* for this condition, thereby enhancing healthcare practices.

MATERIALS AND METHODS

A systematic search was conducted across various electronic databases, including MEDLINE, Google Scholar, PubMed Central, Cochrane Library and Ayush Research Portal, for indexed research and clinical trials published until September 30, 2024. The search utilized a strategy optimized for open-label parallelarm randomized clinical trials, employing keywords such as "Janu Sandhigata Vata," "Janubasti," "Taila," "arthritis," and "osteoarthritis."

Out of 343 articles initially identified, 172 were screened following the removal of duplicates, with 131 excluded based on eligibility criteria. A total of 42 full-text articles were assessed for inclusion in which *Janu Basti* and other procedures are used in the management of *Janusandhigata Vata* presented in table no.1.

SN	Author	Treatment given	Conclusion
1.	Kaushik Raman <i>et al.</i> ^[5]	Janu Basti - Mahanarayana Taila followed by Dashmoola Kwatha Nadi - Swedana	Mahanarayana Taila Janu Basti followed Dashmoola Kwatha Nadi-Swedana is very effective in the management of Janusahdhigata Vata.
2.	Dr. Savan Kumar <i>et al.</i> ^[6]	<i>Eranda Taila</i> as <i>Shamana</i> medicines.	Significant improvement for first year and no signs & symptoms of <i>Sandhivata</i> were noticed after use of castor oil for 2 consecutive years.
3.	Asha MR et al. ^[7]	Group A: Janu Basti - Moorchita Tila Taila followed by Patrapinda Sweda. Group B: Janu Basti - Moorchita Tila Taila followed by Atasi Upanaha Sweda.	Group A - highly significant changes in Vatapurna Drithisparsha, Sandhi Shotha and Prasarana Akunchana Vedana and significant improvement in Sandhi Shoola. Group B - Vatapurna Drithisparsha, Sandhi Shotha and Sandhi Shoola showed highly significant changes and Prasarana Akunchana Vedana showed significant changes.
4.	Dr. Manjula Vishal Matekar <i>et al.</i> ^[8]	Janu Basti – Sahachara Taila	Efficacy of Janubasti with Sahachara Taila is statistically significant in the symptoms viz Shula, Shotha, Sparshasahatva, Akunchan Prasaranjanya Vedana, Sandhispuṭan and Skashtacalan.

Table 1: Showing Janu Basti and other procedures used in the management of Janusandhigata Vata

: 2	456-3110		REVIEW ARTICLE November
5.	Babul Akhtar <i>et al</i> . ^[9]	Group A: Abhyanga - Bala Taila + Nadi Swedana with Dashamoola Kwatha + Panchatikta Ghrita Guggulu Group B: Abhyanga – Bala Taila + Nadi Swedana with Dashamoola Kwatha	In both the groups (A & B) i.e. 15.38 % & 7.14 % patient achieved complete remission, while 61.54% & 14.28 % patients found in maximum improvement and 23.07 % & 64.28 % were having moderately improvement. No patients found mild improvement in group A whereas 14.28 % mild improvement in group B. No patient found unchanged in both the groups.
6.	Dr. Shilpa Santosh Tonde ^[10]	Janu Basti - Mahanarayana Taila Nadi Swedana - Dashmoola Kwatha	Mahanarayana Taila Janu Basti followed Dashmoola Kwatha Nadi-Swedana is very effective in the management of Janu Sahdhigata Vata.
7.	Ashivini <i>et al</i> . ^[11]	Group A: Janu Basti - Chinchadi Taila, Shunthi Choorna for Amapachana. Group B: Janu Basti - Rasona Taila, Shunthi Choorna for Amapachana	Rasona Taila i.e. group B has provided better relief.
8.	Ritika Khajuria <i>et al.</i> [12]	Janu Basti – Tila Taila Abhyanga - Tila Taila Nadi Swedana - Nirgundi Patra Kwatha	Better relief in the signs and symptoms mainly in pain, stiffness, tenderness, swelling, and crepitus.
9.	Reshma A <i>et al.</i> ^[13]	Janu Basti - Sahcharadi Taila Nadi Swedana - Dashmoola Kwatha Tab. Asthiposhaka Cap Shallaki 400mg Panchtikta Ghrita Guggulu	Significant relief in bilateral knee joint pain.
10.	Dr. Priyanka <i>et al.</i> [14]	Group A: Anuvasana Basti - Kshirabala Taila Group B: Arohana Anuvasana Basti - Kshirbala Taila Adjuvant therapy a) Sarvaang Abhyanga - Kshirabala Taila. b) Sarvaang Bashpa Swedana - Dashmoola Kwatha.	 Group A - no patient shows any marked improvement. Moderate improvement was found in 35% patients and mild improvement in 12% patients. 5% patients remain unchanged. Group B – Marked improvement in 15% of the patients, moderate improvement in 60% patients, mild improvement in 25% and 4% patient remains unchanged.
11.	Deepak Yadav <i>et al.</i> ^[15]	Abhayanga - Murchhita Tila Taila. Nadi sweda Anuvashana Basti - Murchhita Tila Taila Basti - Dhanwantri Taila Tab. Yogaraj Guggulu with lukewarm water	Substantial positive change in signs and symptoms.
12.	Vadeyara Vidya <i>et al.</i> ^[16]	Matra Basti - Mahanarayana Taila 30 ml, Guggulutiktaka Ghrita 30 ml, Gandha Taila 10 ml. Godhuma Upanaha.	Pre - test assessment - 19 subjects (63.4 %) had extreme feeling of knee joint pain, 9 subjects (30%) had moderate pain and 2 subjects (6.7%) had mild pain in. Post- test assessment - 1 subject (3.4%) had severe pain; 5 subjects (16.7%) had moderate pain, 14 subjects

: 2	456-3110		REVIEW ARTICLE November			
		Lakshadi Guggulu with Luke warm water.	(46.7%) had mild pain and 10 subjects (33.4%) had beer completely relived from pain.			
13.	Girde Samir <i>et al</i> . ^[17]	Snehana and Swedana. Hapushadi Yapana Basti.	gnificant (P<0.05) result was found in all cardinal mptoms of <i>Sandhi Shoola, Sandhi Shotha, Vatapurna</i> r <i>uti Sparsha, Graha</i> (Restricted movement).			
14.	Hemant Shridhar Paradkar <i>et al.</i> [18]	Gel capsules of Shatapaki Balashwagandhadi Taila.	62.92 % reduction in <i>Sandhi Shoola</i> , 55.17 % in <i>Sandhi Shotha</i> , 56.82% in <i>Akunchana Prasarana Vedana</i> , 60 % relief in <i>Sandhi Sphutana</i> and 67.57 % in <i>Sandhi Graha</i> on the 30 th day of treatment. 30% achieving excellent, 40% good, 26.67% moderate relief and 3.33% No result.			
15.	Hema Dipak Hire <i>et al.</i> ^[19]	Gandha Taila Cap 300 with warm water.	Janusadhishool - Relief of 80%. Janushotha - Moderate, Pitting disappears rapidly. Crepitus – absent. Prasarana Akunchana Sanvedana – pain present.			
16.	Dr. Ajit Shivaji Bagade <i>et</i> al. ^[20]	Group A – <i>Panchatikta Ghrita Guggulu Vati</i> (PTGG) Group B – <i>Gandha Taila</i> – 10 drops.	Group A had better result than group B. Moreover, the phytochemical analysis has zoomed that the PTGG is chemically more effective as it has flavonoids which is proved for analgesic & anti-inflammatory action			
17.	Dr. Suresh Govind Dahiphale <i>et al</i> . ^[21]	Snehapana - Brihat Vishnu Taila in Shaman Matra. Anupana – Mudgayusha	Pain (VAS scale), Crepitus, <i>Akunchana Prasarana Pravritti, Vedana</i> before treatment was 7, 2, 2 and after treatment it was 2, 1, 0 respectively.			
18.	Dr. Pankaj Kumar Katara <i>et al.</i> ^[22]	Group A: Snehapana – Ksheera bala Taila Group B: Matra Basti - Ksheerbala Taila after local Abhyanga and Nadi Swedana.	Group A is better than group B.			
19.	Neetha Abraham <i>et al.</i> [23]	Pana (internal administration) - Prabhanjana Vimardana Taila Anupana - Mudga Yusha. Janu Pichu - Prabhanjana Vimardana Taila.	Prabhanjana Vimardana Taila was found effective in reducing pain, swelling, tenderness and crepitus of knew joint, changes in joint measurements and range of movements of knee joint. Also, patient felt noticeable change in morning stiffness.			
20.	Sarvesh Kumar Singh <i>et</i> al. ^[24]	Group A: Janu Basti - Sahachara Taila. Group B: Matra Basti - Sahachara Taila. Oral administration in both group - Adityapaka Guggulu	Group B has provided better relief than group A.			
21.	Shikha Desai <i>et al.</i> [25]	Abhyanga - at Nabhi, Parshva, Prastha, Ubhayapada with Murchhita Tila Taila and Nadi Sweda. Anuvashana Basti:	No pain, swelling, crepitations present during follow-up Panchakarma together with oral medication is effective in management of Janu Sandhigata Vata. Murchhita Til Taila Anuvashana Basti and Navaprasrutik Basti has been found to be a powerful Pachaka.			

ISSN: 2456-3110

REVIEW ARTICLE November 2024

		<i>Murchhita Tila Taila</i> – 120 ml.	
		Navaprasrutika Basti - 864 ml.	
		Shamana Chikitsa - Tab. Yogaraj Guggulu.	
22.	Savita Mordi <i>et al</i> . ^[26]	Janu Basti – Devadarubaladi Taila.	Out of 30 patients,12 patients (40 %) had got good response, 17 patients (56.66 %) had moderate response and 1 patient (3.33%) had mild response.
23.	Dr. Santosh Chavan ^[27]	Group A: <i>Janu Basti - Tila Taila</i> and ultrasound therapy Group B: Only <i>Janu Basti</i> with <i>Tila Taila</i>	Group A demonstrated significant improvements in pain reduction, increased joint mobility, and enhanced physical function compared to <i>Janubasti</i> alone.
24.	Dr. Rakesh ^[28]	Group A: <i>Janu Basti – Maha vishagarbha</i> <i>Taila</i> and Tab. Glucosamine sulfate 500 mg 1 TID.	Group A shows better result compared to Group B.
		Group B: <i>Janu Basti - Mahavishagarba Taila</i> and Cap. <i>Asthishrinkhala</i> 500 mg 1 TID.	
25.	Gyan Prakash Sharma <i>et al</i> . ^[29]	Group A: Patra Pottali Sweda - Nirgundi Patra. Group B: Janu Basti - Dashamoola Bala Taila Group C: Combined therapy (Patra Pottali Sweda & Janu Basti)	Group C was more beneficial seen rather than group A and B. Symptomatically pain was reduced 75% and range of motion was positive 75% in Group C. In Group A and B result of walking distance and tenderness was also beneficial. So, in present trial Group A & Group B are mild beneficial, statistically significant & Group C is
26			moderate beneficial, statistically highly significant.
26.	Dr. Abhishek Sharma ^[30]	Group A: Ekangdhara - Sahacharadi Taila Group B: Janubasti - Sahachradi Taila	Group B is better than group A.
27.	Dr. Manjula Vishal Matekar ^[31]	Group A: Janu Basti- Sahachara Taila Group B: Agnikarma – Tamrashalaka	Both groups showed an equal effect.
28.	Khushali D Zalavadiya <i>et. al.</i> ^[32]	Balaashwagandha Taila for Local Abhyanga followed by Swedana. Rasnadi Kwatha - 10gm BD Lashunadi Vati - 2 BD Ashwagandha Churna- 2 gm Rasayana Churna - 1 gm Godanti Bhasma - 500 mg Yogaraja Guggulu 2 TDS	75% improvement within 3 months.
29.	Ritesh Roy et. al. ^[33]	Janu Pizhichil (oil bath for knee joint), Panchtikta Ksheer Basti.	After 1 month, the patient got significant relief clinically, and a significant improvement was observed in the radiological findings, especially in terms of maintenance
		Panchatikta Ghrita Guggulu.	of good joint space and absence of overlapping.

ISSN: 2456-3110

REVIEW ARTICLE November 2024

30.	Kure Varsha Nivruttirao	Atasi Pinda Swedana	Statistically highly significant effect in reducing the			
et. al. ^[34]		Alusi Findu Swedunu	symptoms of Janu Sandhigata Vata			
31.	Borkar S.	Abhyanga – Tila Taila	Mashadi Upanaha Sweda is very effective in the			
	et. al. ^[35]	Swedana – Mashadi Upanaha	management of Niramavastha of Janu Sandhigata Vata.			
32.	Anil Mungarwadi ^[36]	Group A- Sthanika Abhyanga with	Group B (Bandhana method) is better than Group A			
		Ksheerabala Taila.	(<i>Pottali</i> method) in <i>Janu Sandhigata Vata</i> in the factor like <i>Janu Shopha</i> , there is no difference in <i>Lakshanas</i>			
		<i>Kukkutanda Sweda</i> with its <i>Twak</i> by <i>Pottali</i> method.	like Janu Shola, Atopa, tenderness, ROM in between the groups statistically.			
		Group B- Sthanika Abhyanga with Ksheerabala Taila.				
		<i>Kukkutanda Sweda</i> with its <i>Twak</i> by <i>Bandhana</i> method				
33.	Alka Mishra <i>et al.</i> ^[37]	Janu Basti - Ksheerbala Taila.	Marma Therapy with Janu Basti showed encouraging			
		Nadi Sweda – Dashamoola Kwatha	result.			
		<i>Marma</i> Therapy- stimulation of four <i>Marma</i> points of the leg, i.e.				
		Kshipra, Gulpha, Indravasti and Janu.				
34.	Sayujya. P. S. ^[38]	Pana - Palashatwagadi Kashaya with Saindava Lavana	Palashatwagadi Kashaya and Nirgundi Taila was found effective in reducing pain, tenderness and crepitus of knee joint. Also, patient felt noticeable change in			
		Janu Veshtana - Nirgundi Taila	morning stiffness.			
35.	Yamini Sabharwal <i>et.</i> al. ^[39]	Group A: Abhyanga, Baspa Swedana. Matra Basti - Kshira Bala Taila	Statistically significant effects were seen in both the groups in symptoms including Sandhi Shoola, Akunchan			
		Group B: Abhyanga, Baspa Swedana. Matra Basti - Ketakadya Taila	Prasaranajanya Vedana, Sparsha Asahatva, Sandhi Sphootana, and ROM.			
36.	Prasanth D ^[40]	Group A: Janu Basti - Murivenna	Janu Basti significant amount of relief in the signs &			
		Group B: Janu Pichu – Murivenna	symptoms of <i>Janu Sandhigata Vata</i> in comparison with <i>Janu Pichu</i> .			
37.	Om Virbhadra Chitte <i>et</i> al. ^[41]	Group A: Yoga Basti – (Niruha Basti – Navaprasrutika Basti,	On statistical comparison, group A showed better results than group B.			
		Anuvasana Basti - Murcchita Tila Taila) and				
		Janu Basti - Sahacharadi Taila				
		Group B:				
		Only Yoga Basti				
38.	Dr. Manohara. B.	Group A:	Group A is better than group B.			
38.	Havinal ^[42]	Janu Basti – Trisatiprasarani Taila				
		Group B:				

ISSN: 2456-3110

REVIEW ARTICLE November 2024

		Janu Seka – Trisatiprasarani Taila	
39.	Prashish Pipare <i>et al.</i> ^[43]	Abhyanga - Dashamoola Taila. Nadi Swedana - Dashamoola and Nirgundi Kwatha. Janu Dhara - Dashmoola Taila. Lepa - Haridra +Sunthi + Saindhav. Hingwashtakchurna, Yogaraja Guggulu, Avipattikara Churna.	Pain, swelling, crepitus, walking speed, Tenderness before treatment was 3,1,3,3,2 and after treatment is was 0,0,3,0,0 respectively.
40.	Md Tanzil Ansari <i>et al.</i> ^[44]	Matra Basti - Mahanarayana Taila Janu Basti - Mahanarayana Taila Rasnasaptaka Kwatha, Mahayogaraja Guggulu.	Signs & symptoms: Before treatment Sandhi Shoola, Sandhi Shotha, Sandhi Stambha, Prasarana Akunchanayoh pravrittishcha Savedana, Sandhi Atopa was 3,2,2,3,2 and after treatment it was 1,0,0,1,1 respectively.
41.	Asif Mohammed <i>et al.</i> ^[45]	Group A: Abhyanga - Svadanstra Taila Group B: Snehapana - Svadanstra Taila	Group B is better than group A.
42.	Archana Meena <i>et al</i> . ^[46]	Group A: Shatavari Guggulu Group B: Shatavari Guggulu Janu Basti - Sahachara Taila.	Group B is more effective than group A.

Inclusion Criteria

- 1. Any clinical trial which has study type of open-label parallel-arm randomized clinical trials.
- 2. Any clinical trial evaluating medicated oil only for external use.
- 3. Article published from 2007 to 30th September 2024.
- 4. No restriction regarding country, patient age, race, gender and language.

Exclusion Criteria

- 1. Articles having management of *Janusandhigata Vata* with *Janubasti* along with other procedures.
- 2. Any clinical trial of *Janusandhigata Vata* with internal medication and other *Panchakarma* procedures.
- 3. Articles without full text available.
- 4. Articles having single case study, case reports, case series, and systematic review studies.

Based upon these inclusion criteria, only 5 research works met with the criteria as presented in table no.2.

Table 2: Showing details of the research works onJanuBastiusedinthemanagementofJanusandhigataVata

S N	Author	Case	Treatment given	Conclusion
1.	Asha MR et al. ^[47]	Sample size – 20 (10 patients of either group) Age: 30 to 70 years.	Group A: Janubasti - Moorchita Tila Taila followed by Patrapinda Sweda for 20 min. Group B: Janubasti - Moorchita Tila Taila followed by Atasi Upanaha	Group A - highly significant changes in Vatapurna Drithisparsha, Sandhi Shotha and Prasarana Akunchana Vedana, and significant improvement in Sandhi Shoola.

ISSN: 2456-3110

REVIEW ARTICLE

November 2024

			<i>Sweda</i> for 12 hours Duration: - 7 days	Group B - Vatapurna Drithisparsha, Sandhi Shotha, and Sandhi Shoola showed highly significant changes and Prasarana Akunchana Vedana showed significant				ve Clinical study.	Duration of therapy - 7 days	No relief (below 25%) A – 0, B - 0 The data shows that <i>Rasona Taila</i> i.e. group B has provided better relief in the disease <i>Sandhigata</i> <i>Vata.</i>
2.	Dr. Manjula Vishal Matekar <i>et al.</i> ^[48]	Sample size – 20 (10 patients of either group)	Janubasti – Sahachara taila 120 ml for each Janusandhi Time: - After Breakfast Duration: - 30 minute for 7 days. Follow Up: - 15 th & 30 th Day from the	significant changes. Efficacy of Janubasti with Sahachara taila in Janusandhigat a Vata is statistically significant as P<0.0001 in the symptoms viz Shula, Shotha, Sparshasahat	4.	Prasanth D ^[50]	Sample – 30 (15 patients in each group) Age: 30-70 years	Group A - Janubasti - with Murivenna for 45 minutes, Group B - Janu Pichu - Murivenna for 45 minutes for Duration - 7 consecutive days	Janu Basti gives significant amount of relief in the signs & symptoms of Janu Sandhigata Vata in comparison with Janu Pichu.	
3.	Ashivini et al. ^[49]	ni Sample G size – 60 J Two G	ize – 60 Janubasti - (above 75%) wo Chinchadi A - 16.66%, B -		5.	Dr. Manohar a. B. Havinal ^{[51} J	Sample – 30 (15 patients each.)	Group A: Janubasti- Trisatiprasar ani Taila Group B: Januseka – Trisatiprasar ani Taila	Group A - shows more net mean effect and long-lasting effect even in follow-up period. Group B - shows less variations	
		groups – 30 in each group Age: 40- 80 years both the sex A Randomize d Comparati	Taila Shunthi Choorna for Amapachana Group B: Janubasti - Rasona Taila Shunthi Choorna for Amapachana	93.33% Moderate relief (50% - 75%) A - 56.66%, B - 6.66% Mild relief (25% - 50%) A - 26.66%, B - 0		A s <i>Janu</i> 179 Libra how artic	search in <i>Isandhigat</i> articles rel ary contai rever, none cles on art	<i>a Vata,</i> whi lated to <i>Sar</i> ned 11 art e were acce :hritis, but	revealed 10 le Google Sch dhigata Vata ticles on San ssible. CAMQu none specific	variations. D articles on holar identified The Cochrane <i>adhigata Vata</i> ; Juest yielded 17 ally addressed DHARA portal

ISSN: 2456-3110

found 94 articles related to osteoarthritis. No research was identified in the Ayush Research Portal or ClinicalTrials.gov. In contrast, the Clinical Trials Registry India (CTRI) listed 11 registered clinical trials concerning *Sandhigata Vata*. The screening process of articles according to the Prisma guidelines for systemic review on the role of *Janu Basti* in the management of *Janusandhigata Vata* is presented in figure no

Figure 1: PRISMA flow diagram (study selection and inclusion process)



Out of the 343 articles retrieved, 41 full text articles and 1 dissertation work were assessed of which the summery is given in table no. 1. Five articles met the eligibility criteria for assessment and were included in the study. Detailed descriptions of these research studies are presented in table no. 2.

After reviewing these articles, a variety of Taila (medicated oils) like Mahanarayana Taila, Eranda Taila, Moorchita Tila Taila, Sahachara Taila, Bala Taila, Chinchadi Taila, Rasona Taila, Sahacharadi Taila, Ksheerabala Taila, Dhanvantari Taila, Mahanarayana Taila, Gandha Taila, Shatapaki Bala Ashvagandhadi Taila, Brihat Vishnu Taila, Prabhanjana Vimardana Devadaru Baladi Taila, Taila. Tila Taila. Mahavishagarbha Taila, Dashamula Bala Taila, Bala Ashwaqandhadi Taila, Nirgundi Taila, Ketakadya Taila, Murivenna Taila, Trishatiprasarani Taila, Dashamula Taila and Svadamshtra Taila are utilized for therapeutic procedures such as Janu Basti, Abhyanga,

Pana, Janu Seka, Janu Pichu, Basti, Matra Basti and Yapana Basti. These oils, infused with medicinal herbs, are specifically chosen to address pain, inflammation and joint stiffness associated with Vata imbalances.

November 2024

REVIEW ARTICLE

Among them, Mahanarayana Taila, Moorchita Tila Taila, Sahachara Taila, Chinchadi Taila, Rasona Taila, Sahacharadi Taila, Ksheerabala Taila, Mahanarayana Taila, Devadaru Baladi Taila, Tila Taila, Mahavishagarbha Taila, Dashamula Bala Taila, Murivenna Taila and Trishatiprasarani Taila have been specially indicated for Janu Basti.

From research study no. 1 and 2, it can be asserted that Sahachara Taila is highly effective in Janubasti for the management of Janusandhigata Vata. In study no. 3, the data indicates that Rasona Taila, utilized in Group B, resulted in significantly greater relief from Sandhigata Vata compared to Chinchadi Taila in Group A. The sudy findings suggest that Rasona Taila is more effective in managing the symptoms associated with Sandhigata Vata. In study no. 4, the findings indicate that Janu Basti with Murivenna for 45 minutes over 7 consecutive days resulted in a significant reduction in the signs and symptoms of Janusandhigata Vata compared to Janu Pichu with Murivenna administered under the same conditions. These results suggest that Janu Basti may be a more effective therapeutic intervention for managing Janusandhigata Vata. In study no. 5, group A, which received Janubasti with Trisatiprasarani Taila, demonstrated a greater net mean effect and sustained benefits during the followup period compared to Group B, which underwent Januseka with the same oil. Although Group B exhibited less variability in responses, the results suggest that Janubasti may provide more effective and lasting relief for the management of the condition studied.

Other than articles which were included in study, one dissertation work was found by Dr. Abhishek Sharma (2016). In which, Group A received *Ekangdhara* with *Sahcaradi Taila* while Group B underwent *Janubasti* with *Sahcaradi Taila*. Comparative analysis revealed that Group B (*Janubasti*) was more effective in reducing the clinical features of the disease. Statistical

ISSN: 2456-3110

REVIEW ARTICLE November 2024

evaluation that the improvement observed in Group B was significant.

Dr. Santosh Chavan et al. ^[52] A randomized controlled trial was conducted. Group A received *Janubasti* with *Tila Taila* followed by ultrasound therapy, while Group B received only *Janubasti* with *Tila Taila*. The findings revealed that the combination of *Janubasti* followed by ultrasound therapy resulted in significant improvements in pain reduction, joint mobility, and overall physical function compared to treatment with *Janubasti* alone.

Dr. Manjula Vishal Matekar^[53] were given Sahachara Taila Janu Basti group A & Agnikarma with Tamrashalaka on maximum tenderness on anterior part of Knee joint in group B. In group A, marked improvement was seen after 7 days of treatment. There was no relapse of symptoms till second follow up. Agnikarma was found highly effective in Shula, Shotha and Sparshasahatva. Janubasti and Agnikarma were found equal effect in relieving the signs and symptoms of Janu Sandhigata Vata.

Probable Mode of Action of Janu Basti (Local Oil Dipping at Knee Joint) On Janu Sandhigata Vata

When the procedure starts, medicated oil crosses the cell membrane through the skin, and the functions of phospholipids will increase and act as a carrier for various cellular elements or impurities which are responsible for the formation of diseases.

The lukewarm oil will increase the temperature to more than 2 to 3 in the localized area, by which vasodilatation will happen and the blood circulation will increase and necessary oxygen and nutrition materials are supplied and the free radicals which are responsible for the disease will be removed.

This therapy produces a sedative effect because of the pharmacological action of the used medicine like antiinflammatory action. Analgesic action, muscle relaxant, etc and acts as a counter-irritant which is the thermal stimulus and may affect the pain sensation. It also induces muscles relaxation and increases the efficiency of muscle activity as the increased blood supply ensures the optimum condition for muscle contraction; it nourishes the muscle, bone and nerve, cartilage and lubricates the joint, and stops the degeneration of the knee joint because of its therapeutic action of the medicine and procedure.^[54]

Taila serves as a fundamental component of Janubasti therapy, providing multiple benefits that contribute to the alleviation of symptoms associated with Janusandhigata Vata. Through its warming, lubricating, and therapeutic properties, Taila not only enhances local blood circulation and joint function but also plays a critical role in balancing Vata Dosha, making it an essential element in the management of knee osteoarthritis in Ayurveda.

CONCLUSION

The comparative analysis of various medicated oils used in Janubasti reveals significant variations in therapeutic efficacy. These findings underscore that Janubasti represents an effective therapeutic modality for managing Janu Sandhigata Vata, with appropriate medicated oils demonstrating promising results in alleviating the symptoms associated with this condition. Janubasti with specific oils, particularly Rasona Taila, yields substantial improvements in clinical outcomes. Also, Among the various Taila utilized, Sahachara Taila and Sahacharadi Taila is employed more frequently for Janu Basti. Its repeated use in various therapeutic procedures underscores its effectiveness addressing in the underlying pathophysiology of joint disorders. Continued research is essential to further validate these interventions and optimize treatment protocols for patients suffering from this debilitating condition.

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REVIEW ARTICLE November 2024

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REVIEW ARTICLE November 2024

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