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Clinical Efficacy of *Padabhyanga* in Simple Myopia - A Pre-Test & Post-Test Study

Research Article

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Abstract

Around 253 million people worldwide live with some form of visual impairment. The leading causes of vision impairment are uncorrected refractive errors (e.g., myopia) and untreated cataracts. *Padabhyanga (foot massage)* is known to promote *Nidrakara* (good sleep), *Drishtiprasadana(improve vision)*, *Shramahara(relieve fatigue)*, *Deha Sukhakara(comfort to the body)*, and induce *Pada Supthinut (sound sleep)*. There are two *Pruthu Siras (large veins)* in the central part of the foot that are directly connected to the eyes. Protecting the feet through *Abhyanga (oil massage)* and *Dhavana(cleaning practices)* is important for the overall well-being and protection of the eyes. Aim: To develop a simple and cost-effective remedy for simple myopia. Objectives: To assess the effectiveness of *Padaabhyanga* with *Moorchita Tila Taila* (*special sesame oil*) in simple myopia. Method: *Padaabhyanga* with 20ml *Moorchita Tila Taila* at 40°C on both feet for 14 days of 20 minutes duration. Results: A significant improvement in eyesight and eye-related problems in myopic disorder. Conclusion: This trial may provide evidence of the efficacy of the treatment in myopic syndrome.

Keywords: Myopia, *Padaabhyanga*, *Moorchita Tila Taila*, Clinical study.

Introduction

Myopia, also known as short-sightedness, is a common refractive error where parallel rays of light focus in front of the retina when the eve is at rest (1). The choice of treatment depends on various factors. including age, lifestyle, eye health, and personal preferences (2). Abhyanga is usually performed as part of Shariraabhyanga (body massage), which refers to the application of oil massage to the entire body (3). It is considered an integral part of Dinacharya(daily routine) and Ritucharya (seasonal discipline) for maintaining health in a healthy individual(4). However, in the case of diseases, Abhyanga is used as a therapeutic measure known as Shamana Chikitsa (procedure to reduce, suppress and eliminate disease symptoms). Abhyanga can be performed either on specific body parts or on the entire body. Padaabhyanga is a relatively less explored technique in the field of Panchakarma. It has often been overlooked compared to other mainstream Ayurvedic treatments (5). However, considering its association with Drishtiprasadana improving vision, it deserves considerable importance, especially in the management

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of simple myopia (6). While there are various modalities used in the management of simple myopia, the most common approach is optical correction through the use of minus-power glasses. Surgical correction and laser treatment are also options but are expensive and may not always yield significant improvements in visual acuity and clinical refraction (7). By understanding the interconnectedness of the feet and eyes, as mentioned in the ancient Ayurvedic texts, it is believed that regular foot massage can have a positive impact on vision (8). It is important to integrate traditional Ayurvedic practices with modern scientific approaches to provide comprehensive and effective solutions for visual impairments (9-11). Therefore, an attempt is being made to develop an economical and effective management strategy for simple myopia through the practice of *Padaabhyanga*.

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Research Design

Research question

Is there any significant effectiveness of *Padaabhyanga* with *Murchita TilaTaila* in simple myopia of the age group 18 years to 40 years for a period of 14 days with a duration of 20 minutes per day during the period of 2017-2020.

Research design

Single-blind randomized clinical trial was conducted on 30 patients aged between 18 to 40 years of either sex at MVR Ayurveda Medical College.



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Inclusion criteria:

- 1) Patients with lens power between -0.25D to -6D.
- 2) Patients of either sex presenting with any signs and symptoms of simple myopia.
- 3) Patients between the age group of 18 years to 40 years.
- 4) Patients who have given informed consent.

Exclusion Criteria:

- 1) Patients contraindicated for Abhyanga
- 2) Patients of other ocular diseases
- 3) Other serious systemic illness
- 4) Patients who have undergone any refractive surgeries

Baseline of Assessment:

The following subjective and objective complaints were selected and assessed before and after *Padabhyanga*.

- A. Subjective parameters
- 1. Blurred distant vision
- 2. Eve strain
- 3. Headache
- 4. Watery discharge of eye

B. Objective parameters

- 1. Visual acuity
- 2. Lens power using autorefractometer

Period of clinical trials: Study period: 18 months Procedure duration: 14 days

Materials and methods

In healthy individuals' oil may prescribe according to the *Prakriti (nature)* of the client as; for *Vata Prakriti (melancholic) – Himasagara Taila; for Pitta Prakriti (bile) – Chandanadi Taila, Chandanabala Lakshadi Taila, Ksheerabala Taila*; for *Kaphaprakriti*

(cough) – Triphalyadi Taila; for Sama Prakriti (same nature) – Asanabilwadi Taila. Snehayonis (sources of oil) are of two types; Sthavara Yoni (plant) and Jangama Yoni. Among Sthavara Yoni drugs, Tila is mentioned first, by Acharya Charaka. That shows Tila's Pradhanyata. Tila Taila is the most Vishesha Taila among other varieties for Balartha and Snehana purposes. Plant materials in Table I were certified at Panchakarma, MVR Ayurveda Medical College, Parassinikkadavu, Kannur for the preparation of Moorchita Tila Taila.

Sambhara Sangraha (Materials)

The collection of medicine, and steel vessels for heating *Taila* in double boiling method, were included in *Sambhara Sangraha*. *Moorchita Tila Taila* for *Padaabhyanga* was prepared in the pharmacy of MVR Ayurveda Medical College, Parassinikadavu, Kannur. 10 liters were prepared with the ingredients *Manjishta*, *Haridra*, *Lodhra*, *Musta*, *Padma*, *Amalaka*, *Vibheetaki*, *Haritaki*, and *Ketaki*. *Manjishta* (500g), and the remaining other drugs taken were 100g each. When *Khara Paka* was attained *Taila* was taken back from the furnace. After *Swanga Sheeta* (*self-cooling*), *Taila* was poured into a can and kept safely. Figure 1 illustrates the steps for *Moorchita Tila* preparation.

Figure 1: Steps for Moorchita Tila Preparation







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Kharapaka of Moorchita Tila Vartivat Kalka 20 ml of Moorchita Tila

Table 1: Plants used here for the preparation of Moorchita Tila Taila

Table 1: Frants used here for the preparation of Woodenita Tha Taha							
S. No.	Plant	Family	Karma (Functions)	Ref.			
1	Sesamum indicum	Pedaliaceae	Vataghna(mitigates vata, one of the three doshas), Kaphapittakrit, Twachya(improves skin texture), Balya(improves the strength of the body), Keshya(beneficial to the hair).	(12)			
2	Rubia cordifolia Linn	Rubiaceae	Kapha hara (mitigates kapha one of the three dosha) Raktahara (mitigates diseases related to blood) Swaravarnakrit (improves voice and complexion); it cures Visha (poison), Sopha (odema) Yoniruk (pain in vaginal tract), Akshiruk (pain in eyes), Karnaruk (pain in ear), Raktatisara (blood mixed stool), Kusta (skin disease), Visarpa (herpes zoster), Vrana (ulcer), Meha (diabetes milittus) Jwara (fever), Arsa (hemorrhoids)	(13)			
3	Curcuma longa Linn	Zingiberaceae	Kaphapittanut (mitigates pitta and kapha), Kaphavatanut (mitigates vata and kapha,) Asranut, mitigates (disease of rakta) Varnya; it cures Twakdosha, Meha, Sopha, Pandu (aneamia), Vrana, Visha, Kandu(itching), Krimi (intestinal helimintiasis), Peenasa (running nose), Aruchi (anorexia), Apachi.	(14)			
4	Symplocos racemosa Roxb	Symplocaceae	Kaphavataghna, Kaphapittanut, Raktajit, Chakshushya (good for eyes), Rochana (helps in healing), Grahi (increases bulk of the stool); it cures Netra Srava Vikara, Asrigdara, Atisara (diahorea), Raktapitta, Sopha, Trishna (thirst), Arochaka, Visha	(15)			
5	Cyperus rotundus Linn	Cyperaceae	Sleshmaraktajit, Pittajit, Grahi, Deepana (improves digestion), Pachana, Lekhana, Stanyasodhana (purifies breast milk); it cures Jwara, Atisara, Trishna, Daha, Krimi, Aruchi.	(16)			



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6	Emblica officinalis Gaertn	Euphorbiaceae	Sarvadoshaghn (remedy for all disease), Chakshushya (good for the eyes), Vrishya (aprodiasic), Rasayana, Ruchya Cures Raktapitta, Prameha, Srama (tiredness), Vamana (stops vomiting), Vibandha (cures constipation), Adhmana(cures distension of abdomen), Vishtambha	(17)			
7	Terminalia bellerica Roxb	Combretaceae	Kaphahara, Kaphapittanut, Kaphasrajit, Kaphamarutanasana, Chakshushya, Kesajanana, Swarya, Bhedana, Sara, Madakara Cures Kasa (cough), Swasa (cures asthma), Hikka (cures hiccup), Krimi, Palita (stops greying of hair), Hridroga (good for the heart)	(18)			
8	Terminalia chebula Retz	Combretaceae	Tridoshaghni Lekhani Medhya (brain tonic), Chakshuhita, Vatanulomani, Hridya, Rasayani, Rechani (helps in easy evacuation of the bowel), Deepana, Balya, and Indriyaprasadani (supports the sense organs). Cures Meha, Kusta, Vrana, Chardi, Sopha, Vatarakta (gouty arthritis), Mutrakrichra, Vishamajwara, Puranajwara	(19)			
9	Plectranthus vettiveroides	Lamiaceae	Pittasleshmanut Raktahara Deepana, Pachana, Kesya. Cures Hrillasa, Aruchi, Visarpa, Hridroga, Atisara, Jwara, Swasa, Kushta, Switra (leukoderma), Vrana, Vanti, Trishna, Raktapitta, Kandu, Daha	(20)			

The preparation of Sneha was mainly divided into three *Paka(texture)*. They were *Mridu Paka, Manda (soft), Madhyam Paka, Cikkana (semi-hard/medium), Khara Paka, Khara cikkana (very hard)*. The *Kalka* became *Varti (wick)* like substance when it is rolled between two fingers. There was nosound when *Sneha Kalka(fine paste)* was sprinkled over the fire. Foam was observed when *Taila* Paka completed, and in the case of *Grita (lipidic)*, foam subsided. Specific colour, odour and taste of the ingredients became marked when *Snehapaka* was over (21, 22).

Procedure for Padabhyanga

The process of *Padaabhyanga* involves applying oil to the feet (both dorsal and plantar aspects), followed by a massage using various movements. Refer to Figure 2 for the procedure adopted here for the *Padabhayanga*.

Figure 2: Procedure of *padabhyanga* (A) Smearing of Taila; (B) Linear Massage (C) Circular Massage; (D)Left Lateral Massage









(D)

Position of the client

On the *Abhyanga* table, the client was asked to lie down. The client was placed in a supine, lateral, or prone position for *abhyanga*. In a water bath, oil was heated to about 40°C before being applied. Warm oil was applied to the plantar and dorsal surfaces of the foot up to the ankle. After that, the therapist began to massage the patient by moving his palm in various directions.

Linear manoeuvre on the foot

The therapist was positioned at the head end of the table, facing the foot. The client's leg was held slightly above the ankle with both hands while they were supine. After that, a lot of pressure was applied to extract the foot. In the prone position, the client's foot was grabbed with both hands at the midpoint of the sole, roughly resembling the two thumbs. The foot was then milked out using sufficient pressure.

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Linear manoeuvre on the sides of the foot

The client was in the lateral position with one leg bent at the knee and the other leg with the foot resting on the ankle. The thumb pulps of both hands were placed directly below the ankles by the therapist. The therapist then applied hard pressure to the little toe with his thumbs slipped distally.

Linear manoeuvre on the dorsum of the foot

The client was positioned supine during this manoeuvre. The therapist firmly pressed the thumb of the other hand on one of the soft spaces between the bones on the dorsum of the client's foot while holding the client's foot in one hand near the ankle. He then applied forceful pressure with a sliding of his thumb towards the toes. On the dorsum of the foot, each soft area between the bones was treated in this manner.

Thumb poking on the soles

The client can be comfortably supine while this technique was done. The client's foot was stabilised by both hands being placed on the dorsum of the foot with the thumbs on the soles. The soles were then gently but firmly probed with thumbs. This technique treated the entire sole.

Linear manoeuvre on the soles

The client was in a prone posture during this manipulation. Thumbs roughly on the heel and other fingers at the dorsum of the foot, the therapist hold the client's heal with both hands. The client's foot was then moved from the sole to the tips of the toes using a milking motion. The pulp of the thumb was used to apply hard pressure while doing so to the sole.

Circular manoeuvre on the pads

In the supine posture, the client was positioned. With his fingers at the dorsum of the foot and his thumb at the soles of the pads, the therapist grasped the client's



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foot. Applying strong pressure, the thumb then moved in a circular motion over the sole pads.

To and fro manoeuvre on the soles

The therapist hold the patient's leg at the ankle while they were lying on their backs. The sole was rubbed along its length in both directions with the palmar surfaces of the opposite hands

Linear and circular massage on toes

With one hand securely holding the client's leg at the ankle, the other hand massages each toe separately. The toe of this client was held in place by the thumb and index finger. The toe was then exploited by applying circular motion to the toe joints and linear motion between the joints.

Linear massage on web spaces

One hand stabilised the foot by grasping it, and the other inserts its index finger into the web space between the big toe and the second toe. The index finger was then repeatedly dragged back and forth while applying hard pressure to the web space's floor. The same treatment was given to other web spaces as well. For the oil to have a systemic effect, it must be absorbed into the skin. Regarding the length of time needed for the oil and the herbal elements contained in it to be absorbed, it has been noted that as time goes on, the oil enters the body's tissues at a deeper and deeper level.

After procedure

After receiving *Padaabhyanga* as part of *Shariraabhyanga* or as a regular practice in a healthy individual, the recipient was instructed to relax for 15 to 30 minutes. After a nap, they might be permitted to take a hot bath. Following a bath, oil was given to the feet of clients who have skin conditions and left there for several hours or until the next application. Bengal gramme powder was used to clear the oil.

Precautions

Necessary aseptic measures was taken if the client was suffering from communicable disorders.

Data Analysis

All the data collected were analyzed with a statistical test using SPSS version 20 software. Wilcoxon signed-rank test was done post-Hoc with Bonferroni correction to interpret the time of significant change.

Results and discussion

Blurred distant vision

Following therapy, there was significant changes noticed in the subjects as the z-value=-3.162 with p value = 0.002 which was ≤ 0.025 and on the follow up there was highly significant changes noticed in the subject as the z value=-3.742 with p value =0.0001 which was ≤ 0.025 . (All the 30 patients had blurred vision and after the treatment 10 got improvement and during follow up 14 got improvement).

Eve strain

Following treatment, there was significant changes noticed in the subjects as the z-value=-2.236 with p value = 0.025 which was ≤ 0.025 and on the follow up there was significant changes noticed in the subject as the z value=-2.333 with p value = 0.020 which was ≤ 0.025 . (Out of the 30 patients 6 was having Eye Strain and it was found that after the treatment 5 got relief and during follow up it was found that all the 6 got relief in eye strain).

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Visual Acuity

For right eye, after treatment there was significant changes noticed in the subjects as the z-value=-3.276 with p value = 0.001 which was < 0.025 and on the follow up there was highly significant changes noticed in the subject as the z value=-3.626 with p value =0.0001 which was \leq 0.025. For left eye there was significant changes noticed in the subjects as the z-value=-3.162 with p value = 0.002 which was \leq 0.025 and on the follow up there was highly significant changes noticed in the subject as the z value=-3.500 with p value =0.0001 which was \leq 0.025.

Lens power using an auto refractometer

For right eye after treatment and during follow up there was no significant changes noticed in the subjects as the p value ≥ 0.025 . For left eye, after treatment and during Follow up there was no significant changes noticed in the subjects as the p value ≥ 0.025 .

Padabhyanga Lakshana

Nidra

After therapy, there were noticeable changes in the participants, as indicated by the z-value=-3.317 and p-value = 0.0001 (0.05), which indicated, *Nidra* had improved with a positive rank of 11.

Shramahara

Following therapy, there were noticeable improvements in the individuals, as seen by the z-value of -4.618 and the p-value of 0.0001 (0.05), which indicated that *Sramahara* improved with a positive rank of 27.

Snigdhata of Pada

After therapy, there were noticeable improvements in the participants, as indicated by the z-value of -7.940 and the p-value of 0.0001 (0.05), which indicates that *Snigdhatha* improved with a positive rank of 30.

Mridutwa of Pada

After the treatment, the participants showed substantial improvement as indicated by the z-value of -5.069 and the p-value of 0.0001, which is 0.05 and indicates that *Mridutwa* improved with a positive rank of 30.

Watering of eyes

No significant changes were observed in the participants after therapy and during follow-up, as indicated by the p-value of 0.025. Out of the 30 patients, only 5 had eye-watering. It was discovered that after the therapy, 2 had relief and that during follow-up, 3 had relief.



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Headache

There was no discernible change in the participants' condition during therapy and follow-up, as indicated by the p-value ≥ 0.025 (Bonferroni correction) 0.025. Out of the 30 patients, only 2 had headaches, and it was discovered that 2 of them had improved during therapy, and one had improved during follow-up. Because there were not many patients who suffer from headaches, this condition could not be generalised or addressed.

Conclusion

In addition to its high incidence, myopia increases the risk of conditions that could endanger one's evesight and contributes to visual morbidity. As a consequence of the study's observations and findings, it can be said that Padaabhyanga was statistically significant in alleviating eye strain, moist eyes, hazy distant vision, and visual acuity. Following therapy, the auto-refractometer reading was not statistically significant. A small improvement in eyesight was seen in a few patients' dioptric powers, which were reduced in some cases by 0.25D to 0.50D. Better outcomes might be reached if the patients followed Pathyaapthyas and Nidana Parivarjana. Both during and after the treatment, no adverse effects were noticed. Instead, every day, every patient was active. A few patients saw improvements in their Agni, and their Kshut level rose. For greater outcomes, the length of Padaabhyanga might be extended to 28 or 56 days. During Padaabhyanga, one might follow Pathyas and avoid Apathyas. Also, eye exercises can be suggested as a synergistic activity with Padaabhyanga.

Ethical Clearance

The ethics committee authorised the research topic reference No IEC/PK2/ 2018/02 after it had been critically examined and presented.

Consent or assent

Before beginning the study, we obtained the patient's signed consent. Each patient's confidentiality was appropriately protected throughout the trial.

References

- 1. Baird PN, Saw S-M, Lanca C, Guggenheim JA, Smith III EL, Zhou X, et al. Myopia. Nat. Rev. Dis. Prim. 2020;6(1):99.
- 2. Cooper J, Tkatchenko AV. A review of current concepts of the etiology and treatment of myopia. Eye & contact lens. 2018;44(4):231.
- 3. Agarwal A, Madan P, Kumar R, Khundia M, Watel VR. A Review Study on Role of Abhyanga in Dincharya. World J. Pharm. Res. 2021;10(3):1774-17780.
- 4. Girme AS, Suryavanshi RS. Role of Sesame Oil Abhyanga in Daily Routine as a Preventative Measure in Vatavydhi. Int J Ayu Pharm Chem. 2022;16(1):94-100.
- 5. Hiremath AB, Yalagachin G, Resmi K, Uday T, Chaithra H, Ashitha N. A clinical study on

combined effect of Padabhyanga and Pranayama in Nidranasha (Primary Insomnia).J. Ayurveda Integr. Med. Sci. 2022;7(5):01-5.

ISSN No: 0976-5921

- 6. Satapathy B, Nathani N. Prevention of Eye Disorders through Healthy Lifestyle with special reference to Padabhyanga. CELLMED. 2020;10(3):18.1-.4.
- Wildsoet CF, Chia A, Cho P, Guggenheim JA, Polling JR, Read S, et al. IMI-interventions for controlling myopia onset and progression report. Invest. Ophthalmol. Vis. Sci.2019;60(3):M106-M31
- 8. Shirbhate A, Nijwante D, singh Chauhan M, Meshram K. Clinical study on efficacy of goghruta padabhyanga as an upkrama in dincharya in computer vision syndrome wsr to ophthalmic hygiene. International J. Res. Anal. Rev. (IJRAR). 2020;7(1):919-30--30.
- 9. Niraj S, Varsha S. A review on scope of immuno-modulatory drugs in Ayurveda for prevention and treatment of Covid-19. Plant Sci. Today. 2020;7(3):417-23.
- Kumar A, Ojha K. A review on Shushkaakshipaka (Dry Eye Syndrome) Inter. Ayur. Publications 2022;7 (4):2160-2165
- 11. Swamy B, Swamy SB. Akshi Tarpana-A unique ocular therapy in Ayurveda. J. Ayurveda Integr. Med. Sci.. 2018;3(02):46-51.
- 12. Rajesh K, Anurag V, Shaliendra P, Krishna Tila (Sesamum indicum Linn.): A Rasayana Dravya, Pharma Innov. J. 2019;(8):24–28.
- 13. Deshkar N, Tilloo S, Pande V. A comprehensive review of Rubia cordifolia Linn. Pharmacogn. Rev.2008;2(3):124.
- 14. Promod D, Mohanlal J. Haridra (Curcuma Longa Linn.) A Classical Review. Int. J. of Ayur. and Herbal Med. 2017; 7(6): 2963–2972.
- 15. Acharya N, Acharya S, Shah U, Shah R, Hingorani L. A comprehensive analysis on Symplocos racemosa Roxb.: Traditional uses, botany, phytochemistry and pharmacological activities. J. Ethnopharmacol. 2016;181:236-251.
- 16. Dixit A, Bharati SK, Singh AK. A Brief Review of Synonyms and Pharmacotherapeutical characteristics of Musta (Cyperus rotundus Linn.) in Kosha and Nighantu. Pramana R. J. 2019;9 (6); 2249-2976
- 17. Pal S, Ramamurthy A, Rath S, Mahajon B. Healing role of Guduchi [Tinospora cordifolia (Willd.) Miers] and Amalaki (Emblica officinalis Gaertn.) capsules in premature aging due to stress: a comparative open clinical trial. European J. Med. Plants. 2017;21(2):1-13.
- 18. Shivani RK, Sharma S, Palsra P, Thamman R. A review on Terminalia bellirica and aloe barbadensis. International Journal of Herbal Medicine 2022; 10(3): 50-55
- 19. Meher SK, Panda P, Das B, Bhuyan G, Rath K. Pharmacological profile of Terminalia chebula Retz. and Willd.(Haritaki) in Ayurveda with evidences. Res. J. Pharmacol. Pharmacodyn. 2018;10(3):115-124.



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- 20. Chandrashekhar K. An insight to the absolute botanical sources of Varnya and Keshya Dravyas in Dhanvantari Nighantu. Glob. J. Res. Med. Plants Indig. Med 2018;7(2):13-26.
- 21. Thakur TD, Mane R. A Review on Sneha Kalpana in Ayurveda., J. Ayurveda Integr. Med. Sci. 2018;3(04):181-186.
- 22. Rai P. Concept of Medicated oil and Ghrita in Ayurvedic Pharmaceutics—" A Literary Review". Int. J. Pharm. Life Sci.2015;6(7):4620.

ISSN No: 0976-5921

23. Afroz Z, Yalagond M.S., Karki A. V, Clinical efficacy of Tila Taila Paada Abhyanga and Eye Exercises in the management of Timira wsr to Simple Myopia, J. Ayurveda Integr. Med. Sci. 2022(7): 57–63.
