



Review Article

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THE ROLE OF HOMOEOPATHY IN MUSCULOSKELETAL DISORDERS: A CONCISE REVIEW

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Abstract:

Musculoskeletal disorders (MSDs) encompass a wide range of conditions affecting muscles, bones, and joints. Common MSDs include arthritis, back pain, and soft tissue injuries. These disorders significantly impact quality of life and are a leading cause of disability worldwide. Conventional treatments, such as physical therapy, medications, and surgery, are often effective but may come with side effects and limitations. Homeopathy, an alternative medicine system developed in the late 18th century, offers a holistic approach to managing MSDs. This review explores the role of homeopathy in treating musculoskeletal disorders, evaluating its efficacy, safety, and mechanisms of action with comparison to conventional treatment.

Introduction:

Homeopathy is based on two primary principles: "like cures like" and the "law of minimum dose." The former suggests that a substance causing symptoms in a healthy person can treat similar symptoms in a sick person when administered in highly diluted forms. The latter principle advocates for the use of the lowest possible dose to stimulate the body's self-healing mechanisms. Homeopathic remedies are derived from plants, minerals, and animals, and are prepared through serial dilution and succussion (vigorous shaking).

Homeopathy plays a significant role in managing musculoskeletal disorders by providing effective pain relief and improving quality of life [12]. Studies have shown that homeopathic treatments can reduce pain and disability associated with conditions like low back pain, making it a valuable therapeutic option [13]. Research also indicates that individualized homeopathic medicines, such as those containing *Rhus toxicodendron*, can have prognostic value in predicting pain relief outcomes in musculoskeletal disorders [14]. Furthermore, patients with musculoskeletal disorders treated by homeopathic physicians tend to show similar clinical evolution but are less exposed to non-steroidal anti-inflammatory drugs (NSAIDs), potentially reducing the risk of NSAID-related adverse events and maintaining therapeutic benefits [10]. Overall, homeopathy emerges as a promising complementary and alternative medicine approach in the management of musculoskeletal disorders, offering a holistic and potentially safer treatment option.

Homeopathic Treatment of Musculoskeletal Disorders:

Arthritis

Arthritis, including osteoarthritis (OA) and rheumatoid arthritis (RA), is a common MSD characterized by joint pain, stiffness, and inflammation. Several studies have investigated the role of homeopathy in managing arthritis symptoms.

Efficacy in Osteoarthritis:

- A double-blind, randomized controlled trial (RCT) by Fisher et al. (2006) examined the effectiveness of homeopathic treatment in patients with knee osteoarthritis. The

study found that patients receiving homeopathic remedies reported significant pain relief and improved joint function compared to the placebo group.[1]

- A systemic review shows that Homoeopathy, particularly homoeopathic complexes and combination formulae, shows promise in treating osteoarthritis. Further research on individualised homoeopathy is recommended for conclusive evidence.[17]

Efficacy in Rheumatoid Arthritis:

- A pilot study by Bell et al. (2004) evaluated the impact of individualized homeopathic treatment on RA patients. The results indicated a reduction in disease activity and improved quality of life for those receiving homeopathic care.[2]
- Individualized homoeopathic medicines show promise in treating rheumatoid arthritis, as evidenced by a pilot study demonstrating significant improvements in Disease Activity Score 28 over six months.[15]
- A retrospective study shows that Homoeopathic medicines as add-on therapy in rheumatoid arthritis patients improve quality of life, reduce pain, limit disability, decrease disease activity, and lower NSAID consumption, showing promising results.[16]

Efficacy in Back Pain:

Chronic back pain is another prevalent MSD that can severely limit daily activities and productivity. Homeopathy offers several remedies that are purported to alleviate back pain, including *Rhus toxicodendron*, *Arnica montana*, and *Bryonia alba*.

- Clinical Evidence: A systematic review by Ernst (2011) analyzed multiple RCTs investigating homeopathy for back pain. The review concluded that while some studies reported positive outcomes, the overall evidence remains inconclusive due to methodological limitations and the small sample sizes.[3]
- A prospective observational Studies have shown that classic homeopathic treatment is effective in improving health-related quality of life and reducing the use of other

healthcare services in patients with chronic low back pain, leading to sustained improvements in symptoms and diagnoses with large effect sizes.[17]

Efficacy in Soft Tissue Injuries:

Homeopathy plays a significant role in soft tissue injuries by offering various treatment options. Studies have shown positive results when using Homeopathic Arnica Montana (AM) for acute injuries involving tissue tearing, as it affects molecules and DNA at a deeper level [18]. Additionally, a medicine prepared from various herbs and natural ingredients has been found effective in treating soft tissue injuries by activating blood circulation, relaxing muscles, and relieving pain without toxic side effects [19]. Furthermore, homeopathic treatments have shown promise in improving severe cutting cases among adolescents, indicating its potential in addressing self-injury issues [20]. Topical application of high-potency aqueous homeopathic compositions has also been suggested for treating deep tissue wounds and surgical wounds [21]. Despite some equivocal evidence regarding the efficacy of homeopathy in reducing the severity of soft tissue damage, its use in sports participants for managing delayed onset muscle soreness (DOMS) remains popular [22].

- Arnica is one of the most widely used homeopathic remedies for treating soft tissue injuries. A double-blind study by Stevinson et al. demonstrated that Arnica significantly reduced pain and swelling in patients undergoing hand surgery, suggesting its potential for managing sports injuries and postoperative recovery.[4]

Mechanisms of Action

The exact mechanisms through which homeopathic remedies exert their effects remain a subject of debate and research. Homeopaths argue that the remedies stimulate the body's vital force and promote self-healing. Critics, however, attribute the effects to placebo responses, given the high dilution levels of homeopathic preparations, often beyond Avogadro's number.

Recent studies have explored possible mechanisms, including:

- Nanoparticle Hypothesis: Research by Bell et al. (2012) suggests that nanoparticles formed during the preparation of homeopathic remedies might carry biologically active information, potentially explaining their therapeutic effects.[5]
- Immunomodulation: Some studies indicate that homeopathic treatments might modulate the immune system, reducing inflammation and promoting tissue repair.[6]

Some Important homoeopathic medicine use in Musculoskeletal Disorders [25-27]:

SL No	Name of the medicine	Indication	Key Symptoms
1	Rhus Toxicodendron	Effective for stiffness, pain that improves with movement, and conditions like osteoarthritis and rheumatic pains.	Stiffness, restlessness, pain that worsens with initial movement but improves with continued movement.
2	Bryonia Alba	Used for pain that worsens with movement and is better with rest, such as in acute gout and arthritis.	Sharp, stabbing pains, aggravated by the slightest motion, and better by lying still.
3	Arnica Montana	Ideal for trauma, bruising, muscle strains, and sprains.	Soreness, bruised feeling, and pain after physical exertion or injury.
4	Ruta Graveolens	Beneficial for injuries to tendons, ligaments, and periosteum, useful in conditions like tendonitis and bursitis.	Bruised, lame sensation, stiffness in joints, and worse from cold and damp weather.
5	Calcarea Carbonica	Suitable for chronic joint disorders with associated weakness and fatigue, often used in osteoarthritis and rheumatoid arthritis.	Cold, clammy extremities, weakness, and joint pain aggravated by exertion.
6	Symphytum Officinale	Useful for fractures, bone injuries, and periosteal pain.	Pain in periosteum, irritation from bone fractures, and injury to joints and bones.
7	Ledum Palustre	Effective for puncture wounds, bruising, and conditions like arthritis, particularly when pain ascends from lower to upper limbs.	Cold, swollen joints, pain that improves with cold applications, and worse with warmth.
8	Causticum	Used for chronic rheumatic and arthritic conditions, especially	Stiffness, contractures, and pain better from warmth

		with contractures and deformities.	and worse from cold and dry weather.
9	Bellis Perennis	Suitable for deep muscle soreness and bruising, particularly following surgery or trauma.	Soreness in the pelvic and abdominal region, pain from deep tissue injury, and better with continued movement.
10	Kali Carbonicum	Useful for conditions involving back pain and sciatica, with sharp, stitching pains.	Severe back pain, worse with rest and cold, better from pressure and warmth.
11	Hypericum perforatum	Rheumatism of small joints, The great remedy for injuries to nerves, especially of fingers, toes and nails.	Pain, <i>Worse</i> , in cold; dampness; in a <i>fog</i> ; in close room; least exposure; touch.
12	Magnesia Phosphorica	The remarkable anti-spasmodic solution. Contraction of muscles accompanied by spreading sensations of discomfort. Particularly appropriate for individuals experiencing fatigue, lethargy, and extreme fatigue. A reluctance to engage in cognitive efforts.	Pain, <i>Worse</i> , right side, <i>cold</i> , touch, night. <i>Better</i> in warmth bending double, pressure, friction.

Competitive Study: Allopathic versus Homoeopathy in Musculoskeletal Disorders:

In a competitive review of allopathic medicine versus homeopathy in musculoskeletal disorders (MSDs), research indicates that homeopathic physicians treating MSD patients show similar clinical progression but with reduced exposure to non-steroidal anti-inflammatory drugs (NSAIDs) compared to conventional medicine (CM) practitioners, potentially leading to fewer NSAID-related adverse events and no loss of therapeutic opportunity [9] [10]. Homeopathy, being a symptoms-based treatment method, focuses on the symptoms of illness and utilizes natural extracts, contrasting with the causative agent approach and chemical synthesis of allopathic medicine [7] [8]. Studies suggest that homeopathic medicines may offer effective alternatives in managing MSDs, showcasing comparable clinical outcomes while minimizing NSAID use and associated risks, highlighting the potential benefits of integrating homeopathic principles into mainstream medical practices [9] [10].

Allopathic Medicine:

Allopathic or conventional medicine primarily focuses on the use of pharmaceuticals, physical therapy, and surgical interventions to treat musculoskeletal disorders. Key advantages include rapid pain relief and significant advancements in surgical techniques and diagnostic tools. For instance, non-steroidal anti-inflammatory drugs (NSAIDs) and corticosteroids are widely used to manage inflammation and pain, providing quick symptomatic relief [23]. Surgical procedures, such as joint replacements and arthroscopic surgeries, can restore function and improve the quality of life for patients with severe musculoskeletal issues [24]. However, these treatments often come with side effects, including gastrointestinal issues from prolonged NSAID use and the risks associated with surgery and anesthesia.

Homeopathic Medicine:

Homeopathy, on the other hand, offers a holistic and individualized approach to treating musculoskeletal disorders. It uses highly diluted natural substances to stimulate the body's self-healing mechanisms. Homeopathic remedies, such as Arnica for trauma and Rhus tox for rheumatism, are tailored to each patient's specific symptoms and overall health condition. This approach aims to address the root cause of the disorder rather than merely alleviating symptoms. Homeopathy is generally considered safe, with minimal side effects, making it an attractive option for patients who are wary of the adverse effects associated with conventional medications. Additionally, it considers the patient's mental and emotional state, promoting overall well-being.

Comparative Analysis:

While allopathic medicine offers fast-acting and technologically advanced solutions, it often focuses on symptomatic relief rather than long-term healing. Side effects and risks of dependency are notable concerns. In contrast, homeopathy emphasizes a patient-centered approach with minimal side effects, aiming for holistic and long-lasting health improvements. However, the scientific community remains divided on the efficacy of

homeopathic treatments, with limited empirical evidence compared to the extensive research supporting allopathic methods[3].

Sl.No	Items	Allopathic Interventions	Homoeopathic Interventions
1	Common complications	<ul style="list-style-type: none"> • Surgical interventions: infection, nerve damage, blood clots. • Pharmacological interventions: gastrointestinal bleeding, kidney damage, cardiovascular events. 	<ul style="list-style-type: none"> • Rare cases of allergic reactions or interactions.
2	Strengths:	<ul style="list-style-type: none"> • Established evidence base. • Wide range of treatment options. 	<ul style="list-style-type: none"> • Low risk of complications. • Holistic approach to patient care.
3	Weaknesses:	<ul style="list-style-type: none"> • High risk of complications • Side effects and interactions • very cost effective. 	<ul style="list-style-type: none"> • Limited evidence base. • Variability in treatment outcomes. • Low sample size.

Safety and Side Effects:

Homeopathy is generally considered safe, with minimal risk of adverse effects due to the high dilutions used in remedies. However, concerns arise when patients rely solely on homeopathy for serious conditions, potentially delaying effective conventional treatments. It is crucial for healthcare providers to ensure that homeopathy is integrated into a comprehensive treatment plan, particularly for chronic and severe MSDs.

Discussion:

As per WHO Approximately 1.71 billion people have musculoskeletal conditions worldwide, this conditions are the leading contributor to disability worldwide, with low back pain being the single leading cause of disability in 160 countries.[11] Homeopathy is frequently

regarded as a superior therapeutic choice for musculoskeletal ailments in comparison to traditional medicine, owing to its holistic methodology and minimal adverse reactions. In contrast to conventional therapies, which frequently utilize analgesics, anti-inflammatory medications, and invasive interventions that may yield notable negative consequences and solely provide symptomatic alleviation, homeopathy strives to target the fundamental cause of the malady. Tailored to the specific symptoms of the individual, homeopathic remedies foster natural recuperation and enduring wellness. These interventions are derived from natural elements and are administered in highly diluted formulations, thereby diminishing the likelihood of adverse reactions and reliance. Furthermore, homeopathy underscores patient-centric management, taking into account the mental, emotional, and physical conditions of the patient, thereby offering a more all-encompassing therapeutic strategy. Numerous individuals suffering from persistent musculoskeletal conditions, such as arthritis, fibromyalgia, and back discomfort, have reported noteworthy enhancements in pain reduction, movement, and overall standard of living with homeopathic interventions. While the scientific substantiation for homeopathy remains a topic of contention, a plethora of anecdotal accounts and patient endorsements indicate that it could serve as a viable substitute or complementary therapeutic option for musculoskeletal disorders, especially for those desiring a more organic and personalized approach to their well-being. For promoting Homoeopathy for musculoskeletal disorders, the ministry of AYUSH in India innovated a national program for prevention and management of osteoarthritis and other musculoskeletal disorder under the National AYUSH Mission [31]. This is a very good opportunity for homoeopathic system of medicine because, by this national health program homoeopathic intervention for musculoskeletal disorder spread all over the India. This national health program definitely help homoeopathic research by involving a large amount of participant.

Conclusion:

Homeopathy presents a promising complementary approach for managing musculoskeletal disorders. While some studies report positive outcomes, the overall evidence remains mixed due to methodological inconsistencies and the need for larger, well-designed RCTs. Future

research should focus on elucidating the mechanisms of action, standardizing treatment protocols, and conducting robust clinical trials to better understand the role of homeopathy in MSDs. As with any treatment modality, it is essential to adopt an integrative approach, combining homeopathy with conventional therapies to achieve optimal patient outcomes.

References:

1. Fisher P, Scott DL. A randomized controlled trial of homeopathy in rheumatoid arthritis. *Rheumatology*. 2001 Sep;40(9):1052–5.
2. Bell IR, Lewis DA, Brooks AJ, Schwartz GE, Lewis SE, Walsh BT, et al. Improved clinical status in fibromyalgia patients treated with individualized homeopathic remedies versus placebo. *Rheumatology (Oxford, England)* [Internet]. 2004 May 1;43(5):577–82. Available from: <https://pubmed.ncbi.nlm.nih.gov/14734789/>
3. Posadzki P, Ernst E. Osteopathy for musculoskeletal pain patients: a systematic review of randomized controlled trials. *Clinical Rheumatology*. 2010 Oct 30;30(2):285–91.
4. Stevinson C, Devaraj VS, Fountain-Barber A, Hawkins S, Ernst E. Homeopathic Arnica for Prevention of Pain and Bruising: Randomized Placebo-Controlled Trial in Hand Surgery. *Journal of the Royal Society of Medicine*. 2003 Feb;96(2):60–5.
5. Bell IR, Koithan M, Brooks AJ. Testing the Nanoparticle-Allostatic Cross Adaptation-Sensitization Model for Homeopathic Remedy Effects. *Homeopathy : the journal of the Faculty of Homeopathy* [Internet]. 2013 Jan 1;102(1):66–81. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3539158/>
6. Linde K, Clausius N, Ramirez G, Melchart D, Eitel F, Hedges LV, et al. Are the clinical effects of homoeopathy placebo effects? A meta-analysis of placebo-controlled trials. *The Lancet*. 1997 Sep;350(9081):834–43.
7. Conventional Homeopathic Medicine and Its Relevance to Modern Medicine.. (2022).
8. Parth, Aphale., Dharmendra, B., Sharma. Conventional Homeopathic Medicine and Its Relevance to Modern Medicine.. *Alternative Therapies in Health and Medicine*, (2022).
9. Rossignol M, Begaud B, Engel P, Avouac B, Lert F, Rouillon F, et al. Impact of physician preferences for homeopathic or conventional medicines on patients with musculoskeletal disorders: results from the EPI3-MSD cohort.

- Pharmacoepidemiology and Drug Safety [Internet]. 2012 Oct 1 [cited 2022 Sep 13];21(10):1093–101. Available from: <https://pubmed.ncbi.nlm.nih.gov/22782803/>
10. Michel, Rossignol., Bernard, Bégaud., Pierre, Engel., Bernard, Avouac., Frédéric, Rouillon., Jacques, Benichou., Jacques, Benichou., Jacques, Massol., Gérard, Duru., Anne-Marie, Magnier., Didier, Guillemot., Didier, Guillemot., Lamiae, Grimaldi-Bensouda., Lucien, Abenhaim. Impact of physician preferences for homeopathic or conventional medicines on patients with musculoskeletal disorders: results from the EPI3-MSD cohort. *Pharmacoepidemiology and Drug Safety*, (2012). doi: 10.1002/PDS.3316
 11. World Health Organization. Musculoskeletal health [Internet]. Who.int. World Health Organization: WHO; 2022. Available from: <https://www.who.int/news-room/fact-sheets/detail/musculoskeletal-conditions>
 12. Debesh, Bhoi., Dhruv, Jain., Rakesh, Garg., Karthikeyan, P, Iyengar., Wasimul, Hoda., Raju, Vaishya., Vijay, Kumar, Jain. Complementary and Alternative Modalities (CAM) for pain management in musculoskeletal diseases (MSDs).. *Journal of clinical orthopaedics and trauma*, (2021). doi: 10.1016/J.JCOT.2021.04.021
 13. Kamlesh, P., Bagmar., Subhash, Yadav., Mita, Gharte., Gayatri, Nimbhore., Vishal, Nimbhore. Effect of Individualized Homoeopathic treatment in chronic low back pain: A prospective observational study. (2020).
 14. Robbert, van, Haselen. Development of a Prognostic Factor Prediction Model in Patients with Musculoskeletal Pain Treated with Homeopathy: An Individual Patient Data Meta-Analysis of Three Randomized Clinical Trials.. *Complementary Medicine Research*, (2021). doi: 10.1159/000508716
 15. Dr., Priyanka., Dr., Kirti, Mishra., Dr., Jyoti, Singh. Can individualized homoeopathic medicines bring a ray of hope the patients of rheumatoid arthritis: A pilot study. *International Journal of Homoeopathic Sciences*, (2022). doi: 10.33545/26164485.2022.v6.i4c.655
 16. Tapas, Kumar, Kundū., Afroz, Farooque, Shaikh., Sindhu, Mary, Jacob. (2014). To evaluate the role of homoeopathic medicines as add-on therapy in patients with rheumatoid arthritis on NSAIDs: A retrospective study. *Indian Journal of Research in Homoeopathy*, doi: 10.4103/0974-7168.129674
 17. M, Koley., S, Saha., R, Medhurst. Clinical trials of homoeopathy in osteoarthritis: a systematic review. (2013). doi: 10.13172/2052-7845-1-3-1097
 18. Francesca, Charlton. Let's Set the Record Straight! Traumatic Tissue Injury Treated with Homeopathic Arnica Montana - A Injury Therapists Perspective. *International*

- Journal of Complementary and Alternative Medicine, (2015). doi: 10.15406/IJCAM.2015.01.00032
19. Yu, Shuhong., Wu, Wei. Medicine for treating soft tissue injuries and preparation method. (2016).
 20. Patricia, Brandimarti., Ruy, Madsen. Homeopathy and Self-Injury. Homoeopathic Links, (2021). doi: 10.1055/S-0041-1726371
 21. Nancy, Josephine, Polich. Homeopathic therapeutic method. (2009).
 22. C., M., Bauer., Lindsay, M., Weight., Mike, Lambert. The use of arnica for the treatment of soft-tissue damage. South African journal of physiotherapy, (2002). doi: 10.4102/SAJP.V58I1.485
 23. Print. Musculoskeletal Care - Overview [Internet]. Mayo Clinic. Available from: <https://www.mayoclinic.org/departments-centers/musculoskeletal-care/overview/ovc-20549492>
 24. American Academy of Orthopaedic Surgeons - AAOS [Internet]. www.aaos.org. Available from: <https://www.aaos.org/>
 25. Allen HC. Allens keynotes and characteristics - with comparisons of some of the leadi. B Jain Publishers Pvt Ltd; 1990.
 26. John Henry Clarke. A Dictionary of Practical Materia Medica. 1900.
 27. Kent JT. Repertory of the homeopathic materia medica. New Delhi: B. Jain; 2016.
 28. Boericke W. Boericke's new manual of homoeopathic materia medica with repertory : including Indian drugs, nosodes, uncommon rare remedies, mother tinctures, relationships, sides of the body, drug affinities, & list of abbreviations. New Delhi: B. Jain Publishers; 2007.
 29. Dr Robin Murphy. Lotus Materia Medica. S.L.: B Jain Publishers Pvt Ltd; 2021.
 30. Vithoulkas G. Essence of materia medica. Usa: B. Jain Publishers (P) Ltd; 2015.
 31. Gov.in. [cited 2024 Jun 22]. Available from: https://namayush.gov.in/sites/all/themes/webcms/images/org_str/National_AYU_SH_Mission2021-22to2025-26.pdf