

Botanical nano composition for the treatment of rheumatoid arthritis and osteoarthritis

Abstract

The present patent-pending invention relates to a pharmaceutical nano composition for rheumatoid arthritis and osteoarthritis was developed. Patients were randomly assigned to receive either placebo or JOINT-TECH extract for 12 weeks the Random clinical study was carried on 24 volunteers and it showed very fast and effective relief of all types of pain on all patients of both types of arthritis compared to placebo. For severe cases it was observed pain starts to disappear in less than one day.. Observed results showed excellent results for all patients with no adverse or side effects.

Volume 6 Issue 2- 2019

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Received: March 27, 2019 | **Published:** May 23, 2019

Introduction

Rheumatoid arthritis (RA) and Osteoarthritis(OA) are chronic inflammatory and destructive joint diseases that affect 1-3% of the population in the industrialized world and commonly leads to significant disability and a consequent reduction in quality of life(9). RA and OA are associated with high costs and, if not treated appropriately, they may lead to a reduction in life expectancy. In addition to the joint swelling and pain caused by the inflammatory process, the ultimate hallmark of RA and OA is joint destruction Drug medications for RA and OA are expensive and cause a lot of side effects besides they do not offer a permanent cure. JOINT-TECH is the first natural safe effective formulation uses nano technology to offer hope for sufferers of both diseases.

Description of the invention

There are hundreds of millions of people suffer from rheumatoid arthritis and osteoarthritis (Osteoarthritis (OA) is estimated to affect 630million people worldwide—15% of all the people on the globe).¹ (RA is a chronic disease affecting over 1.3million Americans and as much as 1% of the worldwide population, or 75 millions).² and the problem lies in dangerous side effects of pain killers available in the international market. Therefore there is a big need for an effective natural product to reduce pain and solve the problems of rheumatoid arthritis and osteoarthritis. Prof. Awad Mansour has arrived at a nano natural herbal formulation to solve this problem in less than 3 months. Dr. B Khasawneh (MD) at Yarmouk University Clinic tried this JOINT-TECH composition capsules on 24 rheumatoid arthritis and osteoarthritis volunteers JOINT-TECH formulation comprising nano boswellia serrata extract, nano curcumin extract, nano cat's claw extract, and nano moringa seed extract., etc., can be produced and used for the first time in the world in accordance with the present invention that is useful to treat rheumatoid arthritis (RA) and osteoarthritis (OA).

Nano boswellia extract

N. Kimmatkar et al.,³ conducted a study to search the effectiveness of Boswellia Serrata Extract (BSE) on 30 patients of osteoarthritis of knee,. All patients receiving BSE extract reported positive results in knee pain and swelling, increased knee flexibility and improved walking distance.

Nano turmeric extracts (curcumin)

Turmeric has been used for centuries in Ayurveda medicine as a treatment for inflammation health problems including arthritis. In a study performed at the University of Kansas in the College of Pharmacy by J Funk et al.,⁴ used complex turmeric extract for the treatment of arthritis in animal model of rheumatoid arthritis (RA). It was shown that turmeric extract was very effective in preventing RA (Rheumatoid Arthritis). Another study was conducted by Vilai Kuptniratsaikul⁵ to study the effectiveness of Curcumin extracts in patients with knee osteoarthritis. One-hundred and seven (107) patients with knee osteoarthritis (OA) were given Curcumin extracts for 6 weeks. There were improvement in pain and walking. With full clinical details collected from different countries Professor Awad Mansour⁶ in his book “The 50 Miracle Cures of Curcumin” listed 50 health conditions including cancer, diabetes, rheumatoid and osteoarthritis which curcumin extract can treat.

Nano cat's claw extract

Cat's claw is an Amazonian medicinal plant traditionally used to treat disorders such as arthritis, and osteoarthritis. Clinical results of cat's claw extract was discussed in details by Sonya Hardin.⁷ Moreover Prof. Awad Mansour has been using cat's claw extract for rheumatoid arthritis patients for 15 years and found that all patients were 100% cured and their Rheumatoid Factor (RF) became negative and their ESR (Erythrocyte Sedimentation Rate) and CRP (C-Reactive Protein) tests became normal.

Nano moringa seed extract

A study on the Moringa oleifera seed extract on adult female Wistar rats was performed by Mahajan S et al.,⁸ Swelling and Rheumatoid Factor (RF) were significantly improved compared to control animals.

Summary of the invention

The present invention used the herbal extract mix JOINT-TECH for treatment of rheumatoid arthritis (RA) and osteoarthritis (OA). JOINT-TECH capsules contain nano boswellia serrata extract, nano curcumin extract, nano cat's claw extract, and nano moringa seed extract.

Examples of pre-clinical results

The following results were obtained at the clinic of Yarmouk

University by Dr. B Khasawneh. Twenty Four patients with suffering from RA (10 patients) and OA(13patients) with nano JOINT-TECH herbal extract capsules for three months . Some patients with mild pain were faster; it took them 1-3 days only to rid of pain while patients with severe pain it took them 3-7 weeks for pain relief (Table 1). It was noticed that Pain strength was reduced more than 60% in the first 4 weeks in all patients. Patient's ages range between 25-75 years old. Males percentage was 45% and Females was 55% and it was noticed there was no difference in pain relief progress between males and females.

Table 1 Effect of JOINT-TECH nano composition capsules on Pain Symptoms

No. of Patients	Symptoms	Treatment time	Case status	
			Before	After
1	Neck Pain	1 Week	Mild	Pain Vanished
3	Joint Pain	4 Weeks	Severe	Pain Vanished
4	Swelling & Joint Pain	8 Weeks	Severe	Pain Vanished
3	Fibromyagia &RA	7 Weeks	Severe	Pain Vanished
3	Trauma Pain & RA	3 Weeks	Mild	Pain Vanished
6	Osteoarthritis	7 Weeks	Severe	Pain Vanished
4	Rheumatoid Pain	6 Weeks	Severe	Pain Vanished

Safety and toxicity study

Toxicity study performed on mice in the animal house showed that JOINT-TECH is free of adverse effects especially on liver, kidneys, lipid and other body organs.

Conclusion

This patent-pending botanical nano JOINT-TECH capsules is expected to help hundreds of millions suffering patients of RA and OA. Double blind is still needed to give more accurate results.

Acknowledgment

Efforts of Dr. Bassam Khasawneh during the clinical period of this work are highly appreciated.

Conflict of interest

The author declares no conflict of interest.

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