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.

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. 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 630 million people worldwide–15% of all the people on the globe). RA is a chronic disease affecting over 1.3 million Americans and as much as 1% of the worldwide population, or 75 millions. The problem lies in dangerous side effects of pain killers available in the 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 natural product to reduce pain and solve the problems of rheumatoid arthritis and osteoarthritis which curcumin extract can treat.

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., 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 Kuptniratsaikl1 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 Mansour 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. 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., 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 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 (13 patients) 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>
<thead>
<tr>
<th>No. of Patients</th>
<th>Symptoms</th>
<th>Treatment time</th>
<th>Case status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Neck Pain</td>
<td>1 Week</td>
<td>Mild</td>
</tr>
<tr>
<td>3</td>
<td>Joint Pain</td>
<td>4 Weeks</td>
<td>Severe</td>
</tr>
<tr>
<td>4</td>
<td>Swelling &amp; Joint Pain</td>
<td>8 Weeks</td>
<td>Severe</td>
</tr>
<tr>
<td>3</td>
<td>Fibromyalgia &amp; RA</td>
<td>7 Weeks</td>
<td>Severe</td>
</tr>
<tr>
<td>3</td>
<td>Trauma Pain &amp; RA</td>
<td>3 Weeks</td>
<td>Mild</td>
</tr>
<tr>
<td>6</td>
<td>Osteoarthritis</td>
<td>7 Weeks</td>
<td>Severe</td>
</tr>
<tr>
<td>4</td>
<td>Rheumatoid Pain</td>
<td>6 Weeks</td>
<td>Severe</td>
</tr>
</tbody>
</table>

**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.

**References**

1. Osteoarthritis Research