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(1 of 1)

United States Patent
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8,796,213
August 5, 2014

Apoaequorin-containing compositions and methods of using same

Abstract

Compositions containing apoaequorin and methods for their use in treating symptoms and disorders related to calcium imbalances associated with, for example, sleep quality, energy quality, mood quality, memory quality or pain are provided by the present invention.

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Family ID: 40627496

Appl. No.: 12/672,463

Filed: March 11, 2009

PCT Filed: March 11, 2009

PCT No.: PCT/US2009/036767

371(c)(1),(2),(4) Date: February 05, 2010

PCT Pub. No.: WO2009/114597

PCT Pub. Date: September 17, 2009

Prior Publication Data

<u>Document Identifier</u>	<u>Publication Date</u>
US 20110124562 A1	May 26, 2011

Related U.S. Patent Documents

Supplements which assist in rebuilding soft tissue structures, particularly in rebuilding cartilage, are useful in compositions for treating the pain of arthritis and other joint disorders. Glucosamine, glucosamine sulfate, chondroitin may be derived from a variety of sources such as Elk Velvet Antler. Marine lipid complexes, omega 3 fatty acid complexes, and fish oil are also known to be useful in treating pain associated with arthritis.

Supplements useful in treating migraine headaches include feverfew and Gingko biloba. The main active ingredient in feverfew is the sesquiterpene lactone parthenolide, which inhibits the secretions of prostaglandins which in turn cause pain through vasospastic activity in the blood vessels. Feverfew also exhibits anti-inflammatory properties. Fish oil, owing to its platelet-stabilizing and antivasospastic actions, may also be useful in treating migraine headaches. The herb Gingko biloba also assists in treatment of migraines by stabilizing arteries and improving blood circulation.

Although some of the supplements listed above have been described as to their pharmacological effects, other supplements may also be utilized in the present invention and their effects are well documented in the scientific literature.

The invention will be more fully understood upon consideration of the following non-limiting Examples.

EXAMPLES

Example 1

Administration of apoaeguorin over a ninety (90) day time course results in improved quality of life for test subjects.

The present analysis, an open-label study, of 32 patients over a 90 day period shows an increase in overall quality of sleep, energy, mood, pain, general health. Changes in performance were measured via a standardized battery of questions. These included assessments of qualitative cognitive test, a sleep index, a headache index and a Quality of Life questionnaire. The study shows improved performance. No participants discontinued the study due to an adverse event.

The results illustrated in FIG. 1 show the percent change from baseline of scores from the areas mentioned; we have excluded the memory scores for another graph. The analysis here is shown as marked on the graph as 1, 2, 3, 4 and 5 vs. days 0 through 90. The graph shows an increase in overall quality of sleep, energy, mood, pain and general health. The baseline was known from a pre-study phase.

Example 2

Administration of apoaeguorin over a thirty (30) day time course results in improved quality of life for test subjects.

The present study was an open-label study for 56 participants over a 30 day period. Changes in performance were measured via a memory screening tool. As illustrated in FIG. 2, the study showed improved memory performance as early as eight days but with statistically greater improvement at day 30. No participants discontinued the study due to an adverse event.

Example 3

Administration of apoaeguorin over a ninety (90) day time course results in improved cognition for test subjects.

