

# Omega 7® / Membrasin® Sea Buckthorn Oil improves mucous membranes of Sjögren's syndrome



Figure 1. Sea buckthorn (*Hippophaë rhamnoides*)

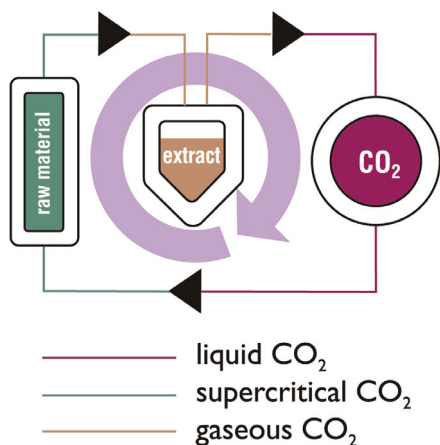


Figure 2. A diagrammatic description of supercritical CO<sub>2</sub> extraction

## Study design

Omega 7 / Membrasin is a vegetable-based capsule product of SBA 24 Sea Buckthorn Oil manufactured by supercritical CO<sub>2</sub> extraction technology (**Figure 2**).

In a placebo-controlled, double-blind, cross-over study, twenty four female Sjögren's syndrome patients took Omega 7 / Membrasin (SBA 24) and fractionated coconut oil (FCO, as a placebo) capsules, six capsules (3.0 g oil) per day, each product for three months. The conditions of the mucosa of the eyes, mouth and genital tract and the skin were evaluated using a visual analogue scale (VAS) before and after each of the supplementation periods.

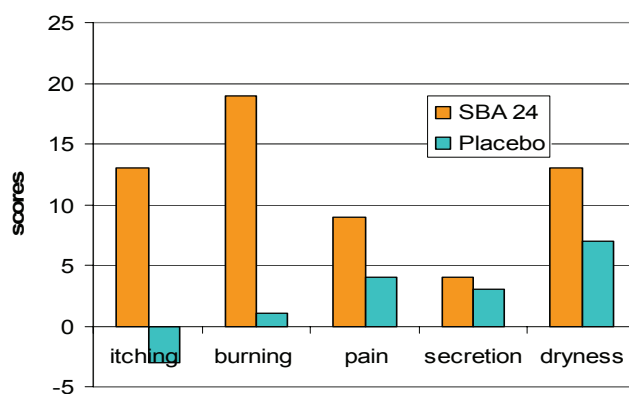


Figure 3. Scores describing improvement after the treatments measured by VAS. Scores 1= an improved case, 0 = an unchanged case, -1 = a worsened case

## Results

More patients had the condition of the genital mucosa improved by the use of SBA 24 than FCO (placebo) ( $P < 0.01$ , **Figure 3**). In addition, the use of SBA 24 led to a better overall improvement in the symptoms of Sjögren's syndrome (**Figure 4**), suggesting beneficial effects of Omega 7 / Membrasin (SBA 24) Sea Buckthorn Oil Capsule on the overall condition of the mucous membranes of Sjögren's syndrome.

The study has been published at *the 97th Annual Meeting & Expo of the American Oil Chemists' Society* (April-May, 2006, St. Louis, USA).

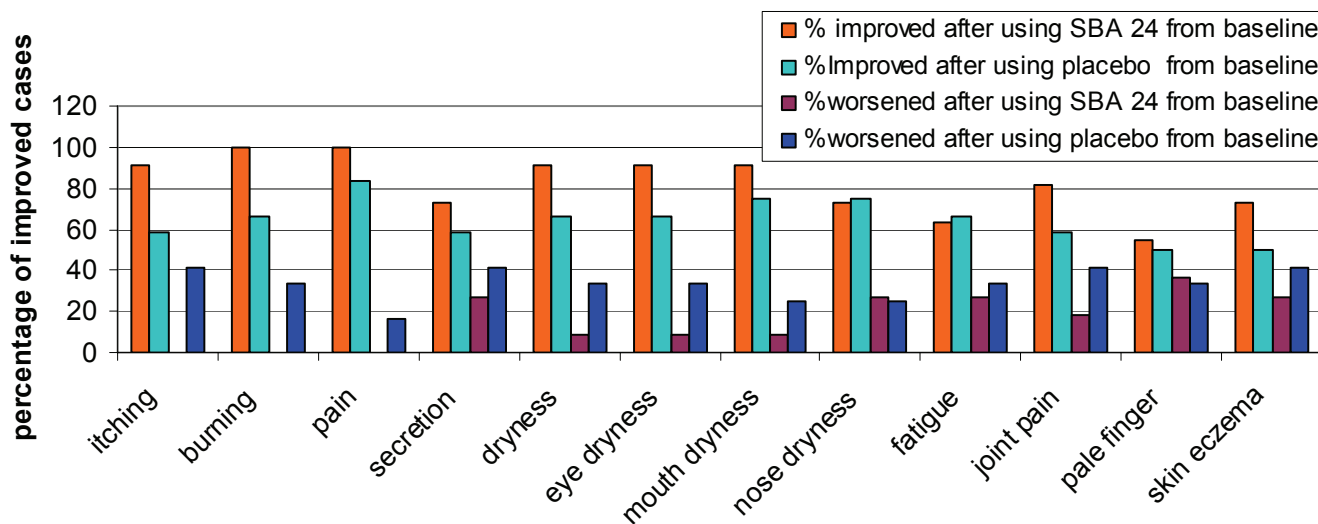


Figure 4. Improvement in symptoms of Sjögren's syndrome after the first three months of treatments measured by VAS