

A Botanical Nano Ozonated Composition with Maximum Bioavailability for Hemorrhoids

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Abstract

The present patent-pending invention relates to a topical pharmaceutical nano composition (with maximum bioavailability) for hemorrhoids was developed.

Random clinical study on 100 volunteers showed very fast and effective relief of hemorrhoids on all patients of both sexes. For severe bleeding cases it was observed hemorrhoids disappeared in less than one week. Observed results showed excellent results for all ages with no adverse or side effects.

Description of the Invention

Hemorrhoids, also called piles, are swollen veins in your anus and lower rectum, similar to varicose veins. Hemorrhoids have a number of causes, although often the cause is unknown. They may result from straining during bowel movements or from the increased pressure on these veins during pregnancy. Hemorrhoids may be located inside the rectum (internal hemorrhoids), or they may develop under the skin around the anus (external hemorrhoids). Hemorrhoids are very common. Nearly three out of four adults will have hemorrhoids from time to time, which mean billions of people are suffering from this painful problem especially the ones who have bleeding!!!

Unfortunately, 99% of patients try to avoid painful surgery and there are number of creams and ointments available in the international market but they are not effective!!

Factors that can Cause Hemorrhoids

- **Constipation:** this can become a chronic issue. Inflammation is caused by compression of the veins of the anal canal.
- **Hereditary factors:** if you have a propensity to suffer from hemorrhoids.
- **Pregnancy:** especially in the final weeks and during natural birth, abdominal pressure and the effort put forth cause inflammation.
- **Getting older:** the rectal sphincter loses strength.
- **Diarrhea:** causes irritation.
- **Obesity:** this is due to the abdominal pressure on the pelvic floor.
- **Staying in the same position for a long time:** standing up or sitting down for a long time without moving can cause inflammation. This is typical for certain professions: janitors, information technology professionals, office workers, taxi drivers, among others.
- **Portal Hypertension:** Because of the increase of blood pressure at the portal system level.
- **Abuse of Laxatives:** this causes irritation.
- **Spicy food, food with a lot of flavor or salt:** causes inflammation from the intestinal and rectal mucous.

Prof. Awad Mansour has arrived at an ozonated nano natural cream with maximum bioavailability to solve this problem in less than a week!!! Dr. Ammar Mansour (MD) at AL-Essra Hospital and Dr. B. Khasawneh (MD) at Yarmouk University Clinic tried this cosmetic product on more than 100 volunteers with excellent results!!!

Compositions comprising botanical ozonated oils, active agents, etc., can be produced and used in accordance with the present invention that is useful to treat or affect hemorrhoids. For example, the present invention relates to compositions, preferably for topical or local use, which comprise one or more of the following ingredients, including, but not limited to, bee propolis, oak oil, oregano oil,

aloe vera gel, olive oil, butcher's broom oil, and German chamomile oil. The compositions can produce one or more of the following pharmacological effects, including, but not limited to antibacterial, antiviral, vasoconstriction, smooth blood vessels relaxation, etc.

Ozonated oil is made with high quality, organic, extra-virgin, cold pressed oil that is put through a process of "ozone injection", which is bubbling ozone into the liquid for an extended period of time. Many companies use a cheap corona discharge ozone generator that can lead to contamination. For purity and quality a cold plasma ozone generator should always be used.

The Top Benefits of Ozonated Essential Oils

Ozonated Oil holds a variety of health benefits, but is most commonly used for conditions of the skin and external body, much as you would use a therapeutic salve or cream. As a massage paste, the ozonide acts as an antioxidant, allowing lactic acid and toxins to be released from the pores of the skin. Other benefits and uses include:

1. Stimulation of growth for skin cells
2. Speeds up healing-time for skin wounds and ulcers
3. Cleans and sterilizes the epidermis
4. Reduces swelling and redness
5. Calms the nerves and reduces the amount of pain in skin conditions
6. May increase cellular function and cellular memory
7. Acts as a free radical scavenger on harmful toxins
8. Acts as a moisturizing facial conditioner (leave on for 20 minutes and promptly remove)
9. Aids in healing processes and reduces scarring
10. Promotes healthy skin conditions
11. Good for removing makeup
12. Good for animal wounds, as it is all natural, and can be licked
13. Sunburn of the skin
14. Insect bites and stings
15. Infections of the sebaceous glands (sweat)
16. Can be used as a natural under arm deodorant
17. Hemorrhoids – One of the best natural remedies
18. Sore muscles (rub as a massage paste)
19. Cellulite Reduction
20. Wrinkles
21. Ringworm
22. Bed Sores
23. Cuts & Burns
24. Skin Yeast
25. Carbuncles

26. Diaper Rash
27. Tinea Versicolor
28. Dermatitis

Bee propolis has been found to be more effective than some pharmaceutical applications against vaginal herpes, hemorrhoids, varicose veins, eczema, psoriasis and all skin disorders as well as peptic ulcer. Tests also suggest that propolis may significantly reduce the chance of an advanced herpes infection [1]. In addition, as suggested above, propolis may offer protection against genital Candida infections [2] besides bee propolis is the strongest and safest antibiotic in the world.

Ozonated Chamomile oil [3] is a natural remedy that aids in soothing irritated skin and reducing pain. You can use ointment and creams that contain Chamomile oil or apply it directly to the affected area.

Ozonated Olive oil [3] is another essential oil with anti-inflammatory and antioxidant properties. It increases the elasticity of blood vessels and is useful in reducing inflammation and shrinking the size of swollen blood vessels of the anal canal.

Ozonated Wild Oil of Oregano is an edible medicinal grade essential oil that is grown from a wild species of oregano especially in the Mediterranean. There are a multitude of conditions that Oil of Oregano treats, but the most famous use is its ability to kill infections in the body. Most organisms cannot survive when exposed to the powerful phenols (carvacrol and thymol) which are the active ingredient in this Wild Oil of Oregano. These ingredients work well on their own but have an added potency when found together in nature. The ancient Greeks were among the first to take advantage of oregano's medicinal qualities and termed the spice oregano meaning delight of the mountains. Here is a list of the powerful actions of Oil of Oregano

- A. Potent antioxidant
- B. Anti-venom (spiders, scorpions, bees, ants and snakes)
- C. Anti-viral
- D. Anti-fungal
- E. Anti-parasitic
- F. Natural Anesthetic (pain reducer)
- G. Mucolytic (thins mucous)
- H. Anti-tussive (decreases cough)
- I. Antispasmodic

The anti-inflammatory properties of oregano oil inhibit causes of bacteria [4]. Another amazing bacterial treatment is employing a mixture of 3 drops of ozonated oregano oil and 1 tablespoon of ozonated olive oil onto the affected area.

Oak [5] scientifically called *Quercus* species, is another alternative to medicines and drugs. This natural remedy exerts its anti-hemorrhoidal action by supporting the health of veins and capillaries and by improving digestion. Rich in vitamins and minerals, such as potassium, manganese, calcium and magnesium,

the plant strengthens the walls in blood vessels, reducing the risk for hemorrhoidal veins to protrude or form bumps.

Also, oak has powerful anti-septic, anti-inflammatory and astringent properties, which means it's efficient in preventing diarrhea, in reducing inflammation and irritation of the damaged skin surrounding the hemorrhoids.

Oak ozonated oil heals effectively reduces inflammation and bleeding. Oak bark is commonly used in the form of decoction, today mostly for external use. Beneficial effects such as skin injury, from small to larger wounds that need to disinfect and stop the bleeding. It works quite strongly anti-inflammatory, fits over the already inflamed wounds that heal poorly and long, its antiseptic and astringent effect was why it was very highly prized. Likewise, we should return to it today, as a natural product has a minimum of side effects.

On the skin it is applied as a bath, to wash or as a compress. In addition to these injuries and inflammation such as skin heals and oozy eczema, fungal infections of the skin, venous ulcers, acne and so on. It is also used for gargling in case of periodontitis and infections of the throat and oral cavity. It is very effective in protecting blood vessels, as well as in preventing bleeding.

Oak or *Quercus* spp. is a tall deciduous tree with potent astringent, antiseptic and anti-inflammatory actions. Herbalists use the bark to treat hemorrhoids and diarrhea. Active components include ellagitannins, catechins and proanthocyanidins, and you can use the herb internally or externally. Herbalist David Hoffmann advises using a decoction of the bark as an enema for hemorrhoids. In this work it is used in a form of ozonated oil.

Butcher's broom [6] is another excellent herb that heals hemorrhoids. Butcher's broom boosts blood vessel health and strengthens the blood vessel walls. Butcher's broom can improve vein circulation, which prevents painful hemorrhoids from forming. Butcher's broom contains ruscogenin, which has an anti-inflammatory effect on swollen tissues. Butcher's broom capsules and butcher's broom tea are both effective in treating hemorrhoids.

Butcher's broom [7] is used for hemorrhoids, gallstones, "hardening of the arteries" (atherosclerosis), and for symptoms of poor blood circulation such as pain, heaviness, leg cramps, leg swelling, varicose veins, itching, and swelling. Butcher's broom is also used as a laxative, as a diuretic to increase urine output, to reduce swelling, and to speed the healing of fractures.

How does it Work?

The chemicals in butcher's broom might cause the blood vessels to narrow or constrict. Butcher's broom might improve blood circulation in the legs by preventing blood from "pooling" in the veins.

Butcher's broom [7] (*Ruscus aculeatus*), a medicinal herb native to the Mediterranean and once popular for making brooms, provides several modern medicinal benefits. People have used the herb for centuries, once even consuming it as a vegetable. Today, an extract made with butcher's broom roots and rootstock is the herb's primary claim to fame. Widely used in Europe, butcher's broom has recently gained in popularity in the United States as scientific research has begun to prove the herb's potential for treating a variety of circulatory and inflammatory conditions.

Poor circulation

A traditional remedy for varicose veins and other circulatory conditions, butcher's broom has the ability to relieve leg pain caused by poor circulation and related symptoms, including swelling, itching, cramping, heaviness, tension and numbness. One study, published in the 2002 edition of the German medical journal "Arzneimittel-Forschung," examined patients with chronic venous insufficiency, a condition similar to varicose veins. The study found that butcher's broom extract administered for 12 weeks significantly reduced symptoms.

Hemorrhoids

Topical ointments and suppositories made with butcher's broom provide relief when dabbed onto itchy, painful hemorrhoids. Taken internally, the herb also may expedite the healing process. In her book "Prescription for Herbal Healing," Phyllis A [8]. Balch explains that butcher's broom tightens the dilated blood vessels that form hemorrhoids and relieves the burning and itching associated with the condition. Taking 300 milligrams of the herb twice a day or 1 teaspoon of the liquid extract twice a day is recommended. Additionally, applying liquid butcher's broom extract directly to the affected area provides immediate relief of symptoms.

Inflammation

Butcher's broom may benefit sufferers of various inflammatory conditions, including carpal tunnel syndrome, lymphedema swollen ankles and general swelling in the lower extremities. The herb increases blood flow, promotes circulation, strengthens blood vessels, reduces capillary fragility and prevents pooling of the blood in the legs. These properties give butcher's broom the ability to relieve swollen lymph glands and alleviate swelling in the carpal tunnel of the wrist caused by repetitive motion. A standard dosage for treating inflammation consists of taking 150 to 300 milligrams two to three times a day.

In this work butcher's broom is used in a form of ozonated oil to increase its effectiveness by many folds.

Aloe vera [9] is one of nature's best ingredients for treating hemorrhoids. The anti-inflammatory and therapeutic properties of aloe vera help reduce the irritation of hemorrhoids. Aloe vera can be used for both internal and external hemorrhoids.

Maximum bioavailability

The herbal composition if used as an oral formulation its bioavailability will be poor compared to a topical (external) form inside vagina to give good bioavailability. It was found that this cream with its nano particle size did give maximum bioavailability effect.

Summary of the Invention

The present invention relates to a topical pharmaceutical composition for treatment of hemorrhoids. The composition for treating disorder, preferably formed of nano gel or nano cream, contains be propolis, ozonated oak oil, ozonated oregano oil, aloe vera gel, ozonated olive oil, ozonated butcher's broom oil, and ozonated German chamomile oil.

Table 1: Effect of nano cream on hemorrhoids symptoms.

Grade	No. of patients	Symptoms	Treatment time	Case Status	
				Before	After
1	12	Itching	3 Days	Mild	Cured
3	20	Bleeding	7 Days	Severe	Cured
1	15	Pain, Discomfort	2 Days	Mild	Cured
2	10	Swelling around anus	3 Days	Severe	Cured
1	8	Itching & Pain	2 Days	Mild	Cured
3	6	Bleeding & Swelling	7 Days	Severe	Cured
3	14	Itching & Swelling	3 Days	Severe	Cured
3	10	Bleeding & Itching	7 Days	Severe	Cured
4	5	All symptoms	10 Days	Severe	Cured

Examples of Pre-Clinical Results

The following results were obtained at the clinic of University of Dr. B. Khasawneh. One hundred patients with symptomatic, prolapsed irreducible hemorrhoids were treated with nano ozonated cream for one week.

Some patients with second degree healing results were faster; it took them 3 days only to rid of hemorrhoids symptoms while patients with third and fourth degree with bleeding it to them 7 days for pain relief and disappearance of bleeding. Few number of severe bleeding cases who faced a recurrence after 6-12 months (Table 1).

Safety and Toxicity Study

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

Conclusion

This patented botanical nano cream is expected to help millions of hemorrhoids patients of both sexes worldwide. Double blind is still needed to give more reliable results.

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