



Healthier Skin Leads to Better Cosmetic Surgery Results

In less than 100 years, the average lifespan in the US has increased from 50 to 82 years of age. This increase in longevity is the direct result of the improved health of the population. People in ever-increasing numbers want to look as young as they feel. As a result, the field of Cosmetic Surgery is booming and all surgeons are competing for patients.

Our Products Promote Skin Improvement That is Proven Through Biopsies

Surgeons are compared to one another based on improving the total end result - a combination of the surgeon's skill in performing the surgical procedure as well as the quality of the skin. The benefits of the ingredients in Miracle of the Sea's Natural Marine Extract (NME) are illustrated in the photos below comparing control vs treatment biopsy sites. These photos are part of a [283 patient study](#) comparing Miracle of the Sea lotion with 2% Natural Marine Extract on the left arm, forearm, chest, and cheek versus the controls applying only lotion on the right sides. **The dramatic rejuvenation was documented through biopsies not just photographs.** After four months, the epidermis and dermis increased by 300% and the fibrocytes and capillaries increased by 10 times. There were also proportional increases in collagen, elastin, and hyaluronic acid.

The improved skin quality not only provides a cosmetic benefit but also improves the healing process of the cosmetic surgery. Thus, adding Miracle of the Sea Natural Marine Extract will be the differentiator between simply great cosmetic/plastic surgeons and truly extraordinary ones.

External "Aging" has two major components: 1) the amount and distribution of muscle, bone and cartilage and 2) skin quality. When any cosmetic surgery is performed, the total end result is attributed to the surgeon. If the patient has young, beautiful and healthy skin, the result is an optimal surgical outcome. However, more commonly, if the patient has thin, atrophic skin, the structural surgical improvement is hampered by the poor quality of the skin. In fact, surgery in such cases can accentuate the poor pre-surgical skin conditions! For the perfect surgical result, the skin quality and structural improvements must go hand in hand.

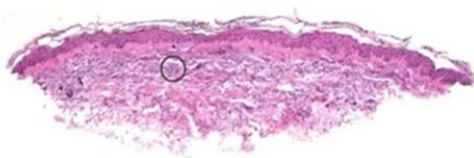
It is clear that to achieve the best surgical results, surgeons must maximize skin health and appearance by increasing the skin's strength, elasticity and thickness. This includes improved epidermal and dermal thickness, and an increased number of productive fibrocytes which create more dermal collagen, elastin and hyaluronic acid. The ingredients of NME also

improve circulation by establishing new, well-placed capillaries. This not only improves the end result of any surgical procedure, but it also dramatically accelerates the rate and quality of healing after surgery.



Untreated Control

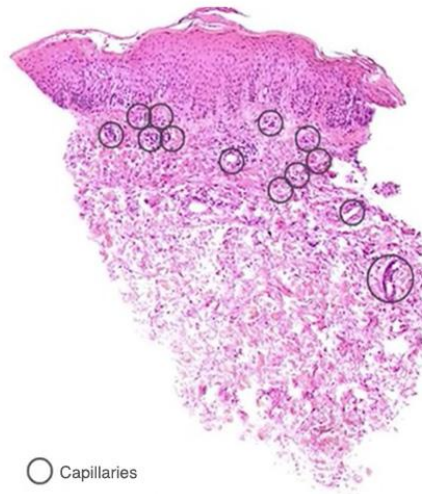
60 Year Old Skin Following 46 Applications of Lotion Without Natural Marine Extract™ (NME)



- The study used 46 applications over a four month period.
- The treatment created 10-15 times the number of blood vessels, 20-35 times the number of fibrocytes and two to six times the amount of collagen elastin and hyaluronic acid.
- The "skin age" of the treated 60 year old in this photo was now 30 years.

Treated With NME™

60 Year Old Skin Following 46 Applications of Miracle of the Sea® Lotion with 2% NME



○ Capillaries

Fibrocytes:
Every blue dot
represents a
fibrocyte.

Pre Cosmetic Surgery Care with Natural Marine Extract

We suggest having the patient use a [Miracle of the Sea topical](#) with Natural Marine Extract not only on the area where the surgery will be performed but also on the peripheral areas so they can have matching rejuvenation. The product should be applied daily, massaging in firmly for at least 10 seconds, for a duration of at least two to four weeks before surgery. Choose the almond oil (AO) for your 50+ patients and the aloe vera gel (AVG) for your younger patients. A combination of NME in AVG followed by NME in AO and heavy massaging has shown an even greater benefit. Ideally, one capsule a day of Miracle of the Sea [Natural Marine Extract Capsules](#) should be added to this protocol.

Miracle of the Sea Skin Solutions Complement Resurfacing and Excisional Procedures

Healthier skin produces better cosmetic surgery including procedures like needling, Fraxel laser, acid peel, tattoo removal, electrolysis and microdermabrasion; as well as all excisional surgeries such as facelifts and neck lifts. For [resurfacing protocol details](#) please click here

Miracle of the Sea Skin Solutions Complement Neuromodulator and Fillers Injection Procedures

Wrinkles create more wrinkles. The downward pressure of a wrinkle stimulates collagen breakdown exacerbating the wrinkle. This positive feedback process is the major reason why “aging” can progress very quickly. Thus, there is a synergistic benefit of Miracle of the Sea induced skin rejuvenation and structural (bone and muscle) improvement of fillers and neuromodulators.

Neuromodulators (Botox®, Dysport®, Xeomin®), Fillers, Liposuction/Sculpting, Lipo Dissolving/Destruction (Kybella®). All of these cosmetic surgery procedures results are improved with healthier skin created by Miracle of the Sea Natural Marine Extract topicals.

Lip and Gum Procedures

Along with the almond oil and aloe vera gel recommended for other procedures, [Miracle of the Sea Lip Health Balm](#) with Natural Marine Extract is uniquely suited to preparing the lips for best lip enhancement results.

[Miracle of the Sea Gum Health Paste](#) with Natural Marine Extract not only prepares the gums for pinhole or other procedures but dramatically improves end results.

For neuromodulator, filler, liposuction/sculpting, lip dissolving/destruction [protocols](#) please click here.

Microneedling and Microchanneling with Natural Marine Extract in Aloe Vera Gel

In addition to the month-long pre and post surgery application of topical Natural Marine Extract as described above, the micro-needling procedure can be greatly enhanced by application immediately before and immediately after the surgery incorporating NME into the deeper layers of skin.

Natural Marine Extract can be used in combination with Vampire needling and needling with Exosomes.

Please ask about our Professional Use Only backbar 10% Natural Marine Extract in Aloe Vera Gel for this purpose.

Miracle Professional Dressing (MPD) in Place of External Sutures

Miracle Professional Dressing is a new paradigm in wound dressing that improves the speed and quality of wound healing. External sutures are a common entry point for bacteria to infect wounds. They also can produce scars at the incisional site of sutures and “railroad track” scars from the pressure of the healing wound across the surgical incision or leaving external stitches in too long. MPD makes the perfect dressing to replace external stitches after closing the wound with deep absorbable sutures, as you can see in the facial surgery performed on Gloria S. (see photos below.)

Miracle Professional Dressing (MPD) combines patented and patent-pending technologies. The regenerated cellulose fabric provides a protective layer that minimizes direct trauma. It features perforations and several different sized pores that allow complete aeration and water permeability to the underlying skin. Through strong capillary actions, blood and exudate are pulled away from the wound while driving topical medicinals towards the wound. Incorporated into this dressing are Natural Marine Extract crystals. When water is applied, these crystals dissolve in a time-release fashion to speed the healing of the wound and improve the health of the surrounding skin.

Because Miracle Professional Dressing is extremely thin and transparent, the wound can be easily monitored.

The total post op care will simply consist of rinsing the dressing in a shower or with a sponge at least once a day. This will clean the wound without disrupting it. After the wound is blotted dry, a humectant such as Miracle of the Sea® Natural Marine Extract in Aloe Vera Gel can be quickly and easily applied through the permeable Miracle Dressing. As mentioned in the study description, the ingredients of our patented Natural Marine Extract have been shown to improve the speed and quality of healing and improve the resilience of the healed skin.

This dressing is designed to stay on the wound for approximately 21 days and fall off on its own.

Case Study: Wound Closure Without Using External Stitches

An 80+ year old woman with an 1.5 x 3.5 cm elliptical lesion. Miracle Dressing was used to replace external stitches and eliminate any scarring.



Elliptical excision of a basal cell carcinoma on her left cheek.



Undermining and deep Dexon absorbable sutures placed to close the wound.



Miracle Dressing was applied.



18 days later the Miracle Dressing fell off on its own....



...leaving a completely healed wound without external stitch wounds.



Only 28 days after removal of Miracle Dressing, the wound is virtually invisible.

Post Surgery with or without using MPD for surgical closure

When using [Miracle Professional Dressing for your surgical closures](#) after the patient waits the three to four weeks for the Miracle Dressing to fall off, they can continue to use the 2% Natural Marine Extract topical product daily for at least a month after surgery. As they see the results of the product on their skin, they will likely want to continue using it. [For detailed protocol](#) please click here.

Even without replacing your external sutures with Miracle Professional Dressing, you should have the patient continue to use the 2% topical product for at least a month after surgery.

As mentioned in the study description, the ingredients of our patented Natural Marine Extract have been shown to improve the speed and quality of healing and improve the health of the surrounding skin.

This is a new paradigm in cosmetic surgery: combining expert surgical procedures with transformative skin treatment using Miracle of the Sea Natural Marine Extract in Aloe Vera Gel.

The Natural Marine Extract Ingredients' Mechanism of Action

Our family of Natural Marine Extract products contain various combinations and concentrations of sustainable marine species including *Holothuria cinerascens* (ashy sea cucumber), *Spirulina pacifica* (Hawaiian spirulina), *Chalmys rubida* (Pacific pink scallop), *Strongylocentrotus franciscanus* (giant red urchin), *Holothuria mexicana* (donkey dung sea cucumber), *Haliotis fulgens* (green abalone), *Arthrospira platensis* (spirulina), *Stichopus chloronotus* (greenfish sea cucumber), *Strongylocentrotus purpuratus* (purple urchin), *Haliotis rufescens* (red abalone), *Holothuria scabra* (sandfish, a sea cucumber), *Ascophyllum nodosum* (knotted wrack kelp), *Macrocystis integrifolia* (giant kelp), *Microcystis aeruginosa* (blue green algae).

Analysis of Natural Marine Extract using UPLC-MS and LC-MS-MS showed that Natural Marine Extract expresses in the following compounds: Arachidonic acid, eicosapentaenoic acid and docosahexaenoic acid, ubiquitin, triterpenoid glycoside saponin, philinospide E and lipopolysaccharide, fucosylated chondroitin sulfate, Hemocyanin, calmodulin, nucleoplasmin, ferritin, cathepsin D, glycosaminoglycan, bioactive peptides, and 13-Methyltetradecanoic acid.

These marine species and compounds have been studied and shown (Please see our references for [relevant marine species](#) and [compounds](#)) to repair damaged DNA and stimulate DNA expression (which are critical functions of cellular rejuvenation). Thus, they have positive benefits for the thin and atrophic deteriorating skin. This atrophic skin has few fibrocytes (as shown in the control group biopsy photo above and the related [Natural Marine Extract Biopsy Comparison Study](#)) and capillaries and while exhibiting a severe loss of collagen, elastin and hyaluronic acid. The skin changes caused by the ingredients in Natural Marine Extract create

young, productive fibrocytes and capillaries which allow a marked increase in production of collagen (for skin strength), elastin (for skin elasticity) and hyaluronic acid (for skin thickness).

Comparative Study Showing Benefits of Miracle Dressing for Excision Surgery

Eric A. Lewis, Study Using a 21-Day Wound Care System, Paper number 138 presented at San Diego Dermatology Symposium, Sept 2020 and NADONA Conference Nov 2020 and SAWC April 2022, Wild on Wounds Sept 2023.

For each of the parameters examined, healing was remarkably accelerated in the 21-day dressing (Miracle Dressing) group. Furthermore, patients in the 21-day dressing group reported a higher satisfaction with post-surgical care at home compared to controls. For [details](#), please click here.

PROFESSIONAL TESTIMONIAL

Being the Director of a portfolio of aesthetics companies and a premier surgical practice, I have access to every topical and oral supplement product available. Miracle of the Sea (MOTS) skin care line and supplements are the foundation of my total beauty and health regime. There is simply no other single product that is as effective as MOTS. I have also introduced the MOTS collection to our entire staff and now our exclusive formulation is one of our center's lead product lines and a hero product to many of our patients.

At our center, KAO Institute, we incorporate the pre, during, and post procedure Miracle of the Sea protocols for many of our resurfacing procedures including micro-needling, laser, radio frequency, acid peels, and micro dermabrasion. It gives us a superior edge and increases successful outcomes.

We recently began using Miracle Dressing in our practice and it continues to exceed our expectations. We anticipate utilizing it in most of our cosmetic and plastic surgery procedures in the future.

~ **Cassandra Todd**, Executive Director, KAO Institute: KAO Plastic Surgery | KAO Aesthetics | KAO Regenerative Therapies

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