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## DERMAFRAC™—TAKING MICRO-NEEDLING TO A WHOLE NEW LEVEL

*Simultaneous delivery of infused ingredients in  
a pain free, no downtime treatment*

A new, patent-pending dermal micro-channeling system has been introduced to the market. Manufactured and distributed by Genesis Biosystems (the manufacturer of Derma Genesis medical microdermabrasion devices), DermaFrac™ offers an alternative to fractional laser skin resurfacing without the risk of complications and the associated high cost of the equipment and related procedure costs.

We asked several physicians about their experience with DermaFrac™—all noted the benefits of this novel system. “DermaFrac™ is not just a spa treatment but a real treatment giving real improvements in the skin. DermaFrac™ is the next generation in skin treatments” commented Toni Stockton, MD, FAAD, Founder and Director of Stockton Dermatology in Phoenix.

Dallas-based aesthetic dermatologist Martin Kassir, MD, FAAD, double board certified in dermatology and internal medicine, highlighted that “DermaFrac™ procedures are not limited by the patient’s skin type.” Rather than using light (i.e., heat), DermaFrac™ works mechanically as the depth of the microchannels is set at a precise level to stimulate collagen without depositing heat into the lower dermis, so the tissue is not vaporized or removed. This is beneficial to all patients, but especially to patients of color.

“There are also important business advantages comparing DermaFrac™ to other simple microdermabrasion devices as far as versatility, results and cost.” said David McDaniel, MD, board certified dermatologist and professor at Eastern Virginia Medical School, Hampton



*DermaFrac™ Micro-channeling System*

University, and Old Dominion University, as well as Co-Director of the Hampton University Skin of Color Research Institute.

### **Microneedling with Precision-Controlled Hand Piece**

A type of collagen induction therapy, microneedling regenerates the surface texture and tone of the skin by creating thousands of tiny channels through to the dermal/epidermal junction. In turn, the body increases collagen and elastin production which reduces the appearance of stretch marks, and fine lines and wrinkles. DermaFrac™ treatments can make depressed scars (e.g., acne scars) less noticeable and reduce scar tissue around raised scars.

The engineering of the DermaFrac™ needles creates channels just below the dermal-epidermal junction and just above capillaries and nerve endings. This feature ensures no bleeding and no pain and requires no anesthesia.

The DermaFrac™ hand piece rolls across the skin and the device's vacuum-assisted occlusion places the skin under tension while hundreds of micro-needles penetrate through the epidermis and into the papillary layer of the dermis. The vacuum permits even penetration to the full depth of the needle and can be adjusted to make the treatment more aggressive in the hands of a medical professional or less aggressive in the hands of an aesthetician.

### **Simultaneous Delivery of Rejuvenating Topical Serums via Fractional Micro-channels**

The DermaFrac™ precision-controlled hand piece includes an insertable cartridge for delivery of patient-specific infusion serum. Micro-needles create pathways for introducing the infusion serum into the skin at the most beneficial depth for the natural rejuvenating process. As the DermaFrac™ rolls across the skin, it releases the infusion solutions in the cartridge into the tissue layers. DermaFrac™ offers “a new and innovative method for controlled microneedling with simultaneous infusion,” explains Dr. Kassir. “I am not aware of another device that offers this feature.”

The simultaneous infusion feature offers a significant advantage compared with “rubbing topicals on the skin before or after microneedling” continued Dr. Kassir. As the finely calibrated microneedling creates microchannels in the dermal layer, the infusion capability of the DermaFrac™ drives topicals (such as anti-aging peptides, skin lighteners, hyaluronic acid moisturizers, and

skin clarifying treatments) to the dermal layer. Research demonstrates that this infusion capability yields extremely high absorption rates of the topical serums.

The vacuum feature results in even penetration of the needles to their full depth while simultaneously delivering peptide serums. “Pulling the skin against the microneedles is very effective” noted Dr. McDaniel. “The ability to be a ‘drug delivery device’ and to do so with precision as far as the depth goes” is also a plus.

### **Optimizing Results and Increasing Patient Satisfaction**

DermaFrac™ offers both “patient satisfaction and lack of down time,” said Dr. McDaniel. Most patients see improvement in skin and textural changes within a few days of the initial treatment. However, “patients see the best improvement after a series of treatments,” explained Dr. Stockton. To create the cumulative benefits of new collagen and elastin below the skin and new skin regenerated by the body's natural repair of the microchannels, physicians recommend six treatments at two to four week intervals.

The collagen production stimulated by DermaFrac™ yields post-treatment improvements for patients. “The very

nice thing about DermaFrac™,” said Dr. Stockton, “is that it continues to work after the treatments are done, collagen keeps building up.”

### **Benefits of DermaFrac™ Prior to Laser Treatments**

“Getting the skin fully hydrated before a laser peel or any fractional procedure makes for a more predictable treatment and faster recovery. Therefore application of a hyaluronic hydration solution a few weeks before a procedure, especially with the aid of micro-needle channels, helps to raise the target abundance in the epidermis and upper dermis so that most patients will have an even response to treatment and an equal ability to recover post-treatment.” said Pat Clark, PhD, CMSLO, Chief Executive Officer at Medical Laser Dynamics.

### **Training Opportunities**

Genesis Biosystems offers a comprehensive certified online training program as well as hands-on training if desired. Dr. Kassir emphasized that training can help you better master, “the fine points of combining just the right amount of pressure with the number of passes while considering the specific anatomic regions that are being treated (e.g., under the eyes are more sensitive than the middle of the cheeks).” Dr. McDaniel commented that the most challenging thing about learning how to use the DermaFrac™ was “Deciding how many treatments to use...it is simple to operate and very easy to integrate into practice.” ♦

For more information about DermaFrac™, please call 1-888-577-7335 (972-315-7888); visit the Genesis Biosystems website at [www.dermafrac.com](http://www.dermafrac.com) or [www.genesisbiosystems.com](http://www.genesisbiosystems.com).

**Side Effects Are Minimal**  
**Patients feel like they**  
**are glowing. There is**  
**no bruising, infection,**  
**discoloration, or**  
**sun sensitivity**  
**after treatment.**