Recovery uses a non-perturbative, homeostatic stem cell technology called $S^2RM$. Stem cells are known to secrete over 500 different types of proteins. At least 191 protein types are known to be unique to stem cells. Stem cells also secrete microRNA which, including proteins, are packaged in nanoparticles called exosomes. This protects and enables the perfusion and targeting of the molecules into various skin cells. These molecules are responsible for 80% or more of the healing power in the skin.

Using topical application of Recovery provides a full complement of proteins and RNA that can penetrate the barrier function and return a natural homeostatic state to the epidermis, dermis, and hypodermis. This also includes the basement membrane between the dermis and epidermis. Recovery is able to overcome the reduction in stem cell function that occurs as a result of aging, and provides the necessary molecules needed when stem cell function is overwhelmed by traumatic insult to the skin.

Recovery Serum

Ingredients:
Human Stem Cell Conditioned Media, Human Fibroblast Conditioned Media, Deionized Water, Hydroxyethylcellulose, Dehydroacetic Acid (DHA) and Benzyl Alcohol.

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Recovery is a new topical wound healing and scar reduction product based on a new methodology for therapeutic development called “system therapeutics” (Maguire, 2014). Multiple protein types and other molecules, including RNA, from different stem cell types are used in our formulation.

In the post-genomic era, studies suggest that over 1,000,000 protein types and 100,000 RNA types are made in the human body. Yet, there are only about 20,000 protein coding genes. Much of the DNA genetic template is for the production of non-coding RNA (ncRNA). These ncRNA, through state dependent regulation by the environment, provide much of the epigenetic driven phenotypes of our body (Maguire, 2016). For example, large numbers of ncRNA have been shown to be involved in translation by regulating ribosomal RNA (rRNA) within the ribosome. This means that the ever changing human phenotype, including the diseased and/or healing phenotype, will be highly regulated by both proteins and RNA.

To regularize the phenotype, i.e. restore homeostasis at the molecular level and heal the skin, the methodology of “systems therapeutics” provides the skin with its full complement of proteins and ncRNA. This will subsequently restore homeostasis at the cellular and tissue levels (Maguire and Friedman, 2015). The S²RM® technology used in Recovery is a non-perturbative methodology that regularizes the protein and ncRNA content of the skin. The non-perturbing molecules in the skin needed for molecular, cellular, and tissue homeostasis are supplied by topical application of Recovery.

Efficacy through topical application is supported by a normally occurring nanotechnology (60-120 nm nanospheres) called exosomes. These exosomes are produced by the stem cells to protect the S²RM® and deliver them through the tissue to surrounding target cells (Maguire et al, 2013; Maguire, 2016b).

Topical application of Recovery is used to reduce irritation and speed the healing process of radiation, chemo and laser burns, as well as post surgery scar tissue. Recovery serves as part of a post treatment protocol for age management procedures like fraxel laser, microdermabrasion, micro and nano-needling, and acid peels. These procedures often result in initial inflammation, redness, and pain that can be quickly quelled with the simple topical application of Recovery following the procedure. In addition, superficial wounds caused by accidents, bed sores, diabetic ulcers, and shingles will benefit from the use of Recovery.

**RECOVERY:**
- Hastens and augments the natural healing process of skin
- Helps to reduce pain and inflammation
- Diminishes post-procedure redness of skin
- Impedes scar formation
- Reduces post-procedure downtime
- Improves the efficacy of surgical and laser procedures
- Helps heal difficult conditions such as eczema, psoriasis, acne, and rosacea
- Reduces pore size

**Faster Healing, Less Irritation**

For Traumatized Skin

**APPROPRIATE FOR:** All skin types

**PURPOSE:** Promote faster recovery, reduce the irritation of skin, and diminish the appearance of scars.

**RESULTS:** Softens and minimizes the appearance of redness, and of scars.

**WHEN TO APPLY:** Apply immediately after a procedure or trauma to the skin. Continue applying twice daily, morning and evening. Use of the product should continue until the scar appears flat and white without redness, or the irritated skin appears less red and inflamed.

For skin conditions with irritation, apply twice daily until the condition mitigates.

**WHERE TO APPLY:** Directly to scars, smaller incisions, area of procedure, everyday cuts, or to an area of irritated skin.

**WARNING:** For external use only.

**Wound Repair**

**BEFORE**

**21 DAYS**

(With use of Recovery)

**BEFORE**

**21 DAYS**

(Without use of Recovery)

Photos have not been altered in any way. Results may vary.