

ExoFlo Has Been Used By Physicians to Treat:

- Aesthetic Applications
- Chronic Non-Healing Wounds
- Soft Tissue Injuries
- Chronic Inflamed Joint Pain
- Repetitive Motion Injuries
- Inflammation

Additional Benefits of ExoFlo Include:

- Contains 200+ Growth Factors including:

Name	Description	Function
VEGFR	VEGF Receptor	Angiogenesis
VEGF	Vascular Endothelial Growth Factor	Angiogenesis & Chemotaxis
Ang1	Angiopoietin 1	Angiogenesis and Supports VEGF
TIMP-1	Collagenase Inhibitor	Blocks matrix breakdown
TIMP-2	Collagenase Inhibitor	Blocks matrix breakdown
IL-1B	Interleukin 1B	Cell Proliferation, Differentiation, Modulates Inflammation
PDGF-AA	Platelet Derived Growth Factor	Cell Survival & MSC Proliferation - Mitogenic
TGFb3	Transforming Growth Factor Beta 3	Immunology - Modulates Inflammation
bFGF	Basic Fibroblast Growth Factor	Mitogenic Cell Survival and Tissue Regeneration
HGF	Hepatocyte Growth Factor	Wound Healing - Tissue Regeneration & Organ Survival

ExoFlo™

Direct Biologics' ExoFlo is an allograft exosome product that carries a myriad of proteins and signals that are anti-inflammatory.

- ExoFlo is a non-surgical option for patients.
- Exosomes are known to stimulate stem cell activity and communication.
- In topical applications, ExoFlo can help in the repair and reconstruction of skin tissue.

Consult your healthcare provider to discuss if your current medical condition qualifies for treatment with ExoFlo. If so, they will advise the best treatment plan associated with your condition.

DIRECT  BIOLOGICS

Direct Biologics is an innovative technology company focused on developing and providing regenerative biologic products for the medical market.

Call: 1-800-791-1021
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ExoFlo™

Your Direct Connection to Regenerative Healing



DIRECT  BIOLOGICS™

Exosomes are...

micro-vesicles (30-150nm) that are involved in cell communication. This is a new frontier in regenerative medicine. These exosomes have been recently discovered to be involved in direct cell signaling. The ExoFlo exosomes are isolated from donated human mesenchymal stem cells (MSCs) and purified using proprietary processing. The unique benefit to these exosomes is that they are stem cell-derived and bring a wide array of growth factors to stimulate and modulate many processes within the healing cascade.

Exosomes are not cells but are micro-vesicles, which are about 1/1,000th the size of a cell, and contain no nucleus or DNA. They can be regarded as the purest form of cellular therapy available, because their function is to direct tissue and wound healing by activating the patient's own regenerative cell response. This is one of the latest generations of naturally bioactive stem cell-based products for patient treatment.

Stem cells and stem cell therapy work by paracrine signaling (local cell-to-cell communication to induce changes in nearby cells) to create the appropriate healing environment to restore tissue. The exosomes in ExoFlo are those paracrine signals isolated from stem cells that can be delivered without the need for delivering stem cells. As the technology and discovery of new methods of treating patients has evolved, the science shows that the optimal way to provide true "stem cell therapy" is to directly provide the signals as its own therapy and avoid potential issues with delivering and keeping transplanted cells alive.

Stem cells by nature work to heal, repair, and restore the body. But, in some cases where there is a chronic abnormality, these cells fall into an inflammatory state, work in an unregulated capacity and inhibit healing. The 200+ growth factor proteins found to naturally occur in healthy tissue and in ExoFlo have shown to help modulate the inflammatory healing process. This is accomplished by activating and recruiting the patients' own cells to the area, revascularizing the area and reducing the inflammatory response to allow natural healing.

How Many Treatments will it Require?

On average, patients will see the effects and potential relief within 4 weeks of the initial treatment. Many patients with pain, inflammation, degenerative diseases, or strains experience significant improvement after a single treatment.

As every patient is different, it is important to refer to your physician for the appropriate treatment plan to meet your individual needs and determine if you are a candidate for ExoFlo.

What Should I Expect?

Your physician will advise about their specific protocols and procedures in preparation of your ExoFlo treatment. Most patients resume to normal daily function post-procedure, but it is recommended that strenuous exercise be avoided immediately after your procedure to allow the success of treatment. Your physician will discuss with you the post-procedure protocol and the appropriate follow-up.

