What are exosomes?

Exosomes are small vesicles that are secreted by stem cells. They contain a large amounts of growth factors, cytokines and other substances that can be transferred to other cells due to their unique structure. This structure allows the exosomes to fuse with other cells in the body and to release their content into the other cell. The contents of the exosomes, like cytokines, growth factors and miRNA can then help the cell heal itself due to the actions of the transferred signaling molecules.

Current Regulatory Aspects of Stem Cell and Exosome Treatment

Compared to stem cells, the exosome treatment is cell free and therefore represents a low-risk treatment compared to stem cells. Studies have shown that treatments with exosomes show similar or better results when compared to stem cell treatment. Based on this information, it is thought that stem cell treatment facilitates its beneficial effects through the secretion of exosomes rather than effects of the stem cells themselves. By using exosomes directly, we can eliminate the injection of stem cells which is known to cause potential issues during treatment.

Dynacord is the Only Company with an FDA Masterfile Allowing Sale

The team at Dynacord has spent the last 9 years researching the most safe and efficacious way to bring regenerative medicine to market while abiding by Federal regulatory policy. Since that time, they have pursued research into the stem cell field and refined their understanding of the mechanisms at play and evolved their approach to best meet the regulatory standards that have been developed. They established strategic partnerships with LSU Health Foundation and Dr. Lucio Miele, the former senior investigator for the FDA's Center for Biologics Evaluation and Research (the authority on regenerative medicine regulation). Through guidance and research, Dynacord learned that the most efficacious and safe method of treating people with injury is using placental derived mesenchymal stem cell exosomes. They have worked tirelessly since this time self funding their research and working with local medical facilities for placental material used in their research in order to be the frontrunner in the industry and soon become the first fully legal, FDA approved umbilical cord mesenchymal stem cell derived exosome product on the market

" Exosomes are the functional mechanism of the regenerative process provided by MSC Stem Cells. Due to the fact that Dynacord Exosomes are a cell free product, they avoid the common risks associated with live cell biologics. Unfortunately abuses in the regenerative medicine industry have caused swaths of misinformation. The FDA has recently notified the industry that all regenerative medicine products intended for clinical use must go through their regulatory process. Dynacord has worked tirelessly to abide by all FDA regulations and has recently registered a Biologic Drug Masterfile with the FDA for its MSC Exosomes. This landmark achievement makes it the only product legally permitted to be sold for clinical use. "
-Dynacord

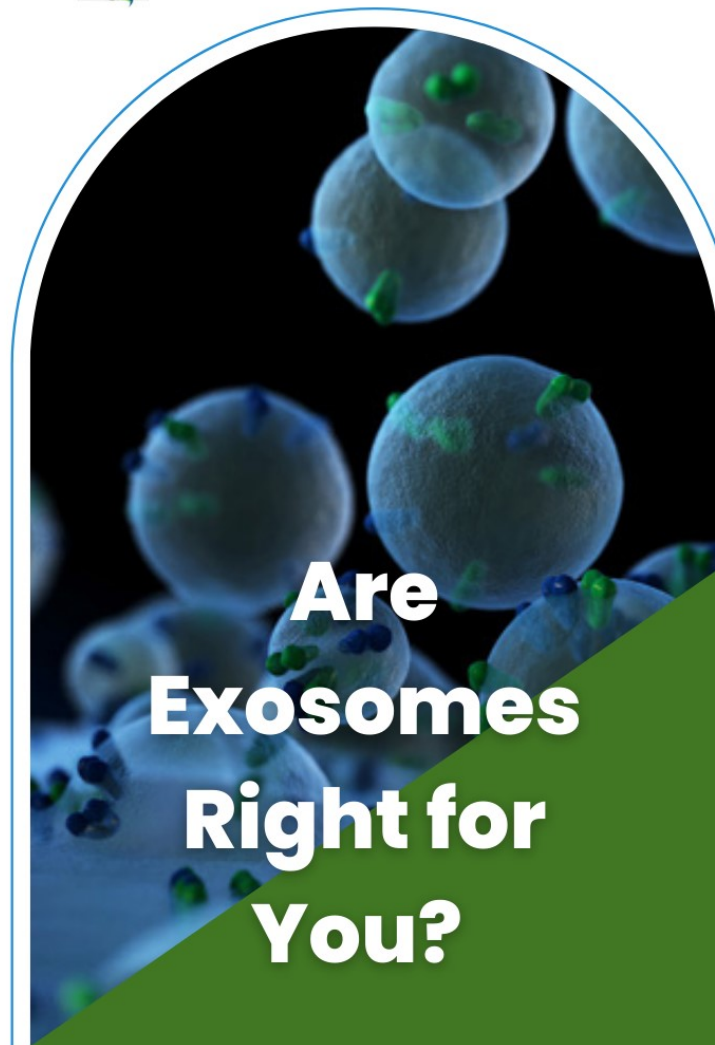For more information please visit www.dyna-cord.com

Human Umbilical Cord Mesenchymal Stem Cell Derived Exosomes

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Are Exosomes Right for You?

Essential Regenerative Medicine

Stem Cell derived exosomes have been shown to be efficacious in a number of studies related to repair of peripheral nerve damage, traumatic brain injury, accelerated wound healing and bone fusion, tissue repair, anti-inflammatory effects, skin regeneration, cartilage regeneration, treatment for injured ligaments/tendons, osteoarthritis, bone regeneration, and vaginal rejuvenation.

DynaCord
Human Umbilical Cord
Mesenchymal
Stem Cell Derived
Exosomes
100 Billion Exosomes

HOW DO THEY WORK?

Stem cell derived exosomes have been shown to be the source of healing in stem cell treatments.

1 An injured tissue releases chemical markers signaling their damage

2 A stem cell absorbs these markers and creates the appropriate components for healing the tissue

3 The stem cell packages these components into a vesicle called an exosome

4 The exosome goes to the site of injured tissue and attaches

5 The exosome releases its contents to the injured tissue, healing the tissue