BOOK
APPOINTMENT

Stem Cell Care
India

EXOSOMES TREATMENT FOR AVASCULAR NECROSIS

CONTACT FOR FREE CONSULTATION

+91 8743024344, +91 7838223336
INFO@STEMCELLCAREINDIA.COM

WWW.STEMCELLCAREINDIA.COM

Exosomes Treatment for Avascular Necrosis

Avascular Necrosis (AVN), is a condition for which exosome therapy is a novel therapeutic strategy that takes advantage of the regenerative and immunomodulatory capabilities of exosomes.

❖ Advantages of Exosome Treatment

Exosome treatment for avascular necrosis offers a number of advantages. Given below are some of the advantages:

- **Enhanced Regeneration and Repair:**

Growth factors and signaling molecules found in exosomes encourage the regeneration of vascular and bone tissues, aiding in the healing of necrotic bone and the restoration of function.

- **Encouragement of Angiogenesis:**

Exosomes promote angiogenesis, the process of creating new blood vessels. Angiogenesis is essential for supplying blood to the injured bone again, promoting its healing, and stopping additional necrosis.

- **Anti-inflammatory Properties:**

Exosomes contain anti-inflammatory microRNAs and cytokines that lessen tissue damage and pain by reducing inflammation in the necrotic area.

- **Minimally Invasive:**

In comparison to surgical interventions, the treatment involves injecting exosomes, which is significantly less invasive and entails fewer risks and shorter recovery times.

- **Targeted Therapy:**

Exosomes can increase the accuracy and potency of treatment by delivering particular bioactive molecules straight to the afflicted cells.

- **Reduced Risk of Immune Rejection:**

Since exosomes are a cell-free therapy, many patients find them to be a safer option than whole-cell transplants due to their decreased risk of immunological rejection and adverse reactions.

- **Promotion of Natural Healing:**

Exosome therapy facilitates the body's natural healing processes by utilizing its own repair mechanisms, which may result in more long-lasting and sustainable results.

- **Pain Reduction:**

Exosomes have anti-inflammatory and regenerative properties that help lessen necrosis-related pain, enhancing patient comfort and quality of life.

- **Improved Mobility and Functionality:**

Exosome therapy can improve joint function and mobility by promoting angiogenesis and repairing damaged bone, which can help patients regain their ability to carry out daily activities.

❖ **Possibility of Stopping the Spread of Disease:**

Exosome therapy used in early intervention may help stop or slow the progression of necrosis, eventually preserving more bone and joint function.

- **Compatibility with Other Treatments:**

Exosome therapy can potentially be combined with other treatments, such as physical therapy and medication, to enhance overall therapeutic outcomes.

- **Mode of Action in Avascular Necrosis**

Exosome treatment for avascular necrosis helps lower inflammation, promotes healing, and restores function by acting in multiple ways. Given below is the mode of action in necrosis:

- **Regeneration and Repair:**

Growth Factor Delivery: Exosomes contain a multitude of growth factors, including insulin-like growth factor (IGF), transforming growth factor beta (TGF-β), and vascular endothelial growth factor (VEGF). In order to promote bone-

regeneration and repair, these growth factors stimulate the proliferation and differentiation of osteoblasts, or cells that form bone, and endothelial cells.

- **Promotion of Angiogenesis:**

Vascular Formation: Angiogenic factors found in exosomes stimulate the growth of new blood vessels, improving the blood supply to the necrotic bone. Enhancing vascularization is essential for supplying nutrients and oxygen, promoting tissue regeneration, and stopping additional necrosis.

For more info
Scan this QR

Stem Cell Care India

EXPLORE THE WORLD OF STEM CELL THERAPY

www.stemcellcareindia.com

CLICK THE LINKS BELOW TO REDIRECT

International Patients : +91 8743024344

Indian Patients : +91 7838223336

+91 8743024344, +91 7838223336

info@stemcellcareindia.com

/StemCellCareIndia

/StemCellCareIndia

/StemCellCareIndia

/StemCellCareIndia

/StemCellCareIndia