THE HEALING POWER OF YOUR BODY

Pioneering Bone Marrow Derived Regenerative Therapy

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Bone Marrow Aspirate (BMA) Therapy is a minimally invasive, non-surgical treatment that helps relieve pain and disability by promoting your body’s natural healing abilities for musculoskeletal conditions.

Bone marrow is a soft tissue abundantly rich in stem cells and growth factors. BMA Therapy leverages the therapeutic and healing benefits of these components.

Bone Marrow Derived Stem Cells may:
- Promote healing by stimulating the proliferation of local cells into new tissues.
- Decrease local inflammation, which often is the driving force behind the progression of chronic degenerative conditions.
- Promote the differentiation of different types of cells, such as bone, cartilage, fat muscle or skin cells.

During treatment, BMA is injected directly into the injured tissue to stimulate repair. Since BMA treatments are prepared from your own bone marrow, there is little to no concern for rejection, infection or disease transmission.

The Key Components of BMA Therapy

01 HEMATOPOIETIC STEM CELLS
These cells have the ability to self-renew and to replenish all blood cell types such as red and white blood cells.

02 MESenchymal STEM CELLS
These cells differentiate into multiple cell types, help reduce inflammation while activating and mobilizing other cells in the regenerative response.

03 LEUKOCYTES
Also known as white blood cells, leukocytes protect from infection, remove damaged tissues and activate the creation of a healing matrix.

04 GROWTH FACTORS AND CYTOKINES
Your bone marrow is rich in growth factors and cytokines that can help suppress inflammation, stimulate the mobilization of local regenerative cells to the site of trauma and kickstart restoration responses.
Bone Marrow Aspirate (BMA) therapy is a specialized biological treatment that utilizes stem cells, progenitor cells, and growth factors contained in your bone marrow to help treat damaged tissues and augment the body's ability to heal itself. BMA therapy yields the greatest therapeutic benefits when the level of stem cells and growth factors naturally present in your bone marrow are sufficiently concentrated prior to being delivered to damaged tissues. Our industry-leading BMA procedure concentrates stem cells, progenitors and growth factors all in-office for re-injection.

**WHAT CAN YOU EXPECT DURING THE PROCEDURE?**
While there is some slight discomfort, most patients tolerate the procedure very well and with minimal pain. Since BMA comes from your body, it is an autologous procedure, meaning there is no risk of your body rejecting its own tissue. The outpatient procedure allows patients to return home the same day.

**HOW IS BMA THERAPY PERFORMED?**
In a minimally invasive procedure using a specialized needle, your physician aspirates a small quantity of bone marrow, typically from your hip bone. After the aspiration, your bone marrow is processed in a centrifuge to isolate and concentrate the regenerative components. The final BMA solution is then injected into the injury site using ultrasound or fluoroscopic guidance to ensure precise delivery. The outpatient procedure is typically completed within an hour.

**WHEN CAN I EXPECT PAIN RELIEF?**
Your physician will inform you of any restrictions based on your specific injury. While it is common that patients refrain from strenuous physical exercise for 30 days, patients commonly resume normal activities within a day or two. Each patient is unique, however some experience relief and a restoration of pre-injury function after one treatment. The regenerative process can take up to 10-12 weeks.

**DOES MY INSURANCE COVER BMA REGENERATIVE THERAPY?**
Currently, insurance providers do not cover the more innovative treatment therapies such as BMA therapy. Talk with your physician about potential payment options.
Benefits of BMA Therapies:

- Remove the majority of red blood cells while maximizing stem cell recovery, leading to reduced inflammation and increased healing.
- Use of clinical protocols adaptable to your needs for a personalized treatment that maximizes your recovery and reduces your pain.
- Co-delivers a concentrated dose of growth factors and other proteins beneficial for stem cell function and for the healing process.

References

Common Applications

**KNEE**
- Ligament Sprains & Tears
- Patellar Tendinopathies
- Partial Meniscal Tears
- Bursitis
- Osteoarthritis

**SHOULDER**
- Ligament Sprains & Tears
- Rotator Cuff Tendinopathies
- Partial Labral Tears
- Joint Dysfunction & Pain
- Osteoarthritis

**FOOT & ANKLE**
- Ligament Sprains & Tears
- Achilles Tendinopathies
- Plantar Fasciitis
- Osteoarthritis

**ELBOW, HAND & WRIST**
- Epicondylitis (tennis & golfer’s elbow)
- Ligament Sprains & Tears
- Tendinopathies
- Osteoarthritis

**SPINE & BACK**
- Degenerative Disc Disease
- Disc Herniation
- Neck & Cervical Pain
- Spinal Stenosis
- Facet Joint Osteoarthritis

**HIP**
- Ligament & Muscle Sprains & Tears
- Tendinopathies
- Partial Labral Tears
- Bursitis
- Osteoarthritis

ASI has partnered with Axiom Regenerative Therapies to provide the industry benchmark in BMA quality and standards.
TOMORROW’S MEDICINE, TODAY
Ask your doctor how you may benefit from Bone Marrow Derived Cell Therapy.