

APIC-A2M

The First and Only Patented APIC-A2M System

The Miracle Molecule™

APIC-A2M is an exciting advancement in orthopedic science resulting from years of research. Located in the blood, A2M has been found to prevent the breakdown of cartilage while protecting the joint. For the majority of patients suffering with pain, their arthritic joint or disc space contains more destructive enzymes than the body can handle, resulting in degradation of the cartilage and eventually the bone. While A2M is naturally occurring, it is unable to enter the joint or disc space in large enough quantities due to its large size, complex structure, and the avascular design of the joint. As a result, it is necessary to inject additional concentrated A2M into the affected area to restore balance and experience pain relief.

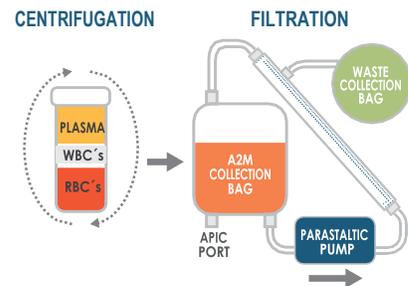
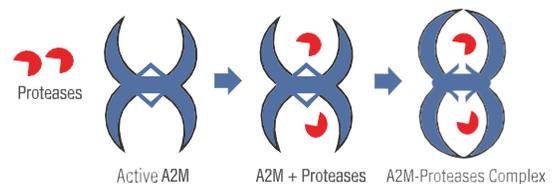
Through our patented and proprietary filtration process, A2M can be concentrated up to 6X. An injection of concentrated A2M, derived from the patient's own blood, and placed directly into the affected joint or disc space, can provide the necessary amount of A2M to bind and remove the destructive enzymes and proteases that cause the damage.

How It Works

A2M is a powerful inhibitor of cartilage catabolic factors and stops the progression of Osteoarthritis (OA) by preventing cartilage breakdown and cartilage loss. A2M has two binding sites, which capture proteases like a Venus fly-trap. Once captured, the bound A2M and proteases are eliminated from the joint or disc space through your body's natural processes.

How Does APIC Concentrate A2M?

Blood is drawn from the patient utilizing APIC kit components and injected into centrifuge tubes, then spun using preset settings on the centrifuge. Plasma is then drawn out of the tubes and put into a specially designed concentration kit where it is filtered and A2M is concentrated. Once the process is complete, the A2M rich injectate is drawn off into syringes for administering into the patient.



APIC Benefits:

- First and only system to centrifuge and filter plasma for isolated and concentrated autologous A2M
- A2M Rich – 6 times the concentration found in blood
- Fibronectin Aggrecan Complex Test (FAC) performed pre-injection to determine injection efficacy (See following page for details)
- Low percentage of white blood cells eliminating unnecessary pain from the treat Rich Plasma and Platelet Poor Plasma processing

PREDICT A POSITIVE FUNCTIONAL OUTCOME WITH FACT™

Molecular Discography™ / Joint Diagnostic

The Fibronectin-Aggregan Complex Test (FACT™) is a diagnostic molecular biomarker test used to identify symptomatic intervertebral discs or painful joint abnormalities. FACT™ is used to measure the presence of the Fibronectin-Aggregan Complex (FAC) in a fluid specimen taken from patients with musculoskeletal pain. FAC is a unique molecular complex that is specific for painful inflammation of the spine and joints. FACT™ is used to identify symptomatic intervertebral discs and joints by the process of Molecular Discography and Systematic Joint Diagnostics respectively. The Fibronectin-Aggregan Complex (FAC) has been reported in peer reviewed publications to be associated with painful inflammation and has the potential to be the single best molecular biomarker to predict functional outcomes from spinal and joint interventions. FACT™ has been developed for Molecular Discography and Joint Diagnostics in which Inflammatory and degenerative molecules in the disc space and joints can be sampled and assessed in the laboratory.

Scientific evidence is mounting that FACT™ can offer higher efficacy and more improved benefit/ risk ratios than current treatment options. The identification of the FAC in a patient sample allows physicians to confirm and pinpoint the source of pain and shows the potential to efficiently predict the outcome of therapeutic interventions.

Collection Kits

There are two types of kits available. The Joint Diagnostic Collection kit is primarily utilized in large joints and the Molecular Discography Collection kit is utilized to collect specimens from the spine.

Benefits of Using FACT™

- Predicts a positive functional outcome. Clinical tests show more than 90% of FAC positive patients have significant improvement.
- Provides an objective measurement to support the treatment algorithm for the patient: Physicians pull a synovial or lavaged fluid sample during an initial consult or scheduled procedure to confirm the diagnosis and outline next steps.

Why is the FAC diagnostic important?

It detects the source of pain to support treatment decisions by confirming findings through a biochemical process and ultimately provide better outcomes.

Can I collect specimens in the office?

Yes! A simple joint lavage can be performed to collect the synovial fluid in the joint or in the disc. The FACT™ diagnostic kit provides instructions, collection tubes and shipping supplies to send your specimens to the Cytonic's lab.

How long does it take to get the results?

Results are typically delivered via fax or email to your practice in one week. The report will show whether your specimen was FAC positive or negative.

