



Is OrthoFlo Right for Me?

OrthoFlo is an amniotic fluid derived allograft used by physicians to lubricate and protect joints. Amniotic fluid contains many of the same components as healthy synovial fluid, and the known composition and attributes of amniotic fluid may complement these intrinsic properties. You and your doctor may consider OrthoFlo an option if conservative treatment such as anti-inflammatories, physical therapy, and bracing have not provided symptomatic relief, or if you want a non-steroidal option or have reached your limit of steroid injections.

MiMedx® is a **leading biopharmaceutical company** developing and marketing regenerative biologics utilizing human placental tissue allografts and patent-protected processes for multiple sectors of healthcare. To date, over **40** clinical and scientific papers have been **published** in peer-reviewed journals on our amniotic tissue-based technologies. The company's **extensive product portfolio** is covered by over **45 issued patents**, with more than **90 patents pending**. Our PURION®, PURION® PLUS, and LyoPur™ Processed allografts are **clinically effective**, and more than **1,000,000 allografts** have been distributed to date with **zero reported adverse reactions** attributed to our products.†

1. Underwood MA, Gilbert WM, Sherman MP, J Perinatol, 2005 25(5): 341-8.
2. Hui AY, McCarty WJ, Masuda K, Firestein GS, Sah RL, Wiley Interdiscip Rev Syst Biol Med. 2012 Jan-Feb;4(1):15-37.
3. Shimberg M. J Bone Joint Surg Am. 1938 Jan;(20)1:167-77.
4. Data on file at MiMedx.
5. 21 CFR 1271.3(c).

†As of August 1, 2017

For more information:

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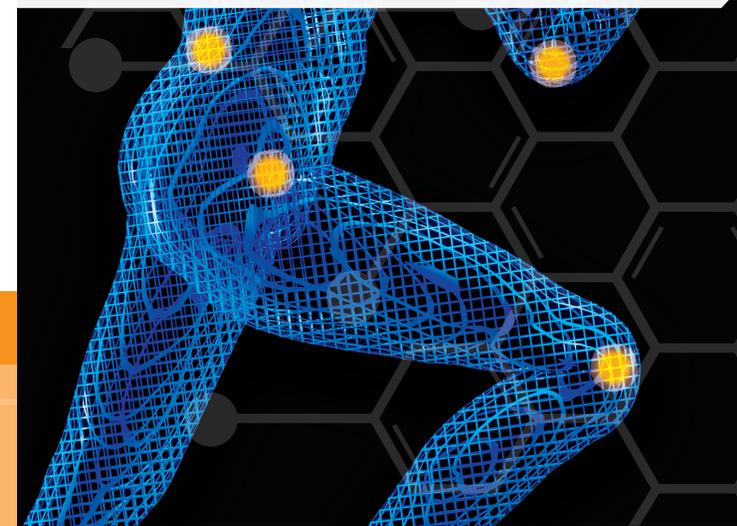
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A non-surgical, regenerative solution.



Ask Your Doctor if
OrthoFlo is Right for You



OrthoFlo SPORT



- Protects and cushions
- Modulates inflammation
- Provides lubrication for enhanced mobility

What is OrthoFlo?

OrthoFlo is a human tissue allograft that is derived from amniotic fluid. Amniotic fluid is the liquid contained within the amniotic sac during pregnancy, which protects, cushions, lubricates, and facilitates the mobility of the fetus.¹ Key elements of amniotic fluid include regulatory factors, carbohydrates, proteins, and other nutrients, as well as hyaluronic acid, which is known as a principle element of lubrication.^{1,2}

What are Regulatory Factors?

OrthoFlo contains an array of well-known regulatory proteins, growth factors, cytokines, and chemokines that are naturally present in both amniotic fluid and the fluid surrounding many joints.⁴ OrthoFlo additionally contains hyaluronic acid (HA), a principle component of viscosity and lubrication in joints.^{1,2}

Which Regulatory Factors are in OrthoFlo?

A multitude of regulatory factors have been identified in amniotic fluid, including some of the most notable factors responsible for maintaining balance in an inflammatory environment.

Why OrthoFlo?

The use of amniotic tissue has been documented in published literature since the early 1900s, with amniotic fluid as a treatment for orthopedic conditions recorded as early as 1938.³ Amniotic fluid has a variety of homologous uses* as *in utero* it naturally functions to:

- Protect & cushion
- Modulate inflammation
- Provide lubrication
- Facilitate mobility

Amniotic fluid *in utero* is a physiologic buffer, modulating fluid and electrolyte transport between the mother and fetus across fetal and placental membranes, and providing nutritional support of the fetus. This supportive fluid cushions and protects the developing fetus, allowing fetal movement.

All of the amniotic fluid for OrthoFlo is donated by healthy, consenting mothers undergoing scheduled Caesarean sections. The recovery of the fluid does not affect the baby or the delivery process. All donors are tested for infectious diseases, similar to the testing done for blood donation, and additional sterility testing is performed once the fluid has been processed.

OrthoFlo amniotic fluid derived allografts are procured and processed in the United States according to the standards and/or regulations established by the American Association of Tissue Banks (AATB) and the United States Food and Drug Administration (FDA).

*Homologous use means the tissue performs the same basic function or functions in the recipient as in the donor.⁶

Treatment Information

How do I prepare for an injection? You will be scheduled for an evaluation and consultation to determine if OrthoFlo is a viable treatment option for you. The OrthoFlo treatment process is very short and is generally performed on an outpatient basis.

How do I care for my injection site? The injection site might appear red and be tender to the touch. You may apply ice and elevate as needed. Initially, the procedure may cause some localized soreness and discomfort; this may last 2-3 days. If you have questions about your treatment, please consult your doctor.

What happens after my injection? Your physician may prescribe some rehabilitation exercises or direct you to a rehabilitation facility. For OrthoFlo to work optimally, it is important that you follow the doctor directed post-treatment care.