



Wharton's Jelly Allografts

Vitacell and Vitacell Pro

What is Wharton's jelly?

Wharton's jelly is a gelatinous connective tissue found surrounding and in between the vasculature of the umbilical cord. Its primary function is to cushion and protect the vasculature from mechanical stress (bending, kinking, torsion, etc.), thus protecting the nutrient flow from mother to fetus. It is also home to a number of regenerative components which it has come to be known for. The term "Wharton's jelly" was coined by Thomas Wharton, a famous English physician in 1656, who was the first to describe it on record.

Testing and Processing

Vitacell and Vitacell Pro are processed using the same methods with the only difference being concentration levels. These products are derived from human umbilical cords donated from consenting mothers. Donated tissue is acquired through an approved tissue acquisition company, which is then tested for communicable diseases before processing. During processing, red blood cells are removed and Wharton's jelly tissue is disassociated from the umbilical cord and cut into small particulates of appropriate size to flow through a syringe. The disassociated tissue is then suspended in saline and placed into vials to be cryopreserved.

We do not remove any of the original components, nor do we add any additional components save saline, which is expressly allowed by the FDA. All products are placed under quarantine until testing results are received and the product is cleared for distribution.

Identifying Patients for WJ Allografts:

Patients with soft tissue defects (injuries), such as muscle tears or cartilage damage are great candidates for regenerative medicine. Symptoms such as **pain, stiffness, swelling, joint locking**, etc., could all be indicative of connective tissue damage. Instead of masking the symptoms with steroids or painkillers, you can address the root cause by supplementing the injured area with new, healthy mesenchymal tissue which is structurally similar while containing powerful regenerative properties to help the body heal itself.

Common Uses:

As connective tissue exists virtually everywhere inside the body, our product is relevant across many specialties. Most commonly, Vitacell products are used in a musculoskeletal setting to supplement or replace missing or damaged cartilage or applied to a muscle or ligament tear.

There are many aesthetic uses including micro-needling, glide after chemical peel, etc.. One major sign of aging is of course a loss of facial volume (missing facial connective tissue) aka *wrinkles*. By replacing these tissues, you can tighten the skin and give patients that full, youthful look that they've been missing.

Components:

- Collagen types I, III, & IV
- Native cell populations
- Cytokines
- Growth Factors
- Hyaluronic Acid
- Elastin

Shipping and Packaging

Our Wharton's jelly product is cryopreserved and shipped overnight on dry ice. Our packaging is validated for 36 hours, however long-ship packages are available which are good for ~72 hours. Orders must be placed before 3 P.M. CST the day before requested delivery.

Contact us for your starter pack containing our IFU, Order Form, Price Sheet, and other relevant documents.

