Why All Regenerative Therapies Are Not Alike

Regenerative Medicine Therapies are diverse. It is important to understand these differences.





Cost Differences in Therapies

Multiple Factors

Effectiveness and cost can range significantly. This depends on many different factors.

No Two Situations Alike

No two situations are the same. Therapies must be tailored for







Key Factors: Cost & Effectiveness

- - The type of stem cells used is key. Some cell types are more effective.
- 1 Stem Cell Type 2 Stem Cell Quality
 - Quality matters. Are cells viable and regulated?
- 3 Stem Cell Quantity

How many stem cells are needed? Dosage is important for success.

Stem Cell Source

Bone Marrow

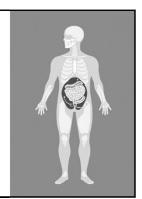
Bone marrow is a common source.

Adipose Tissue

Adipose tissue, or fat, is another source.

Umbilical Cord

Umbilical cord stem cells are also used.



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Concentration Matters

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Single Spin

Single spin PRP has a lower concentration.

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Double Spin

Double spin PRP has a higher concentration.

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The Role of Scaffolding



Support Structure
Scaffolding provides support for cell growth.

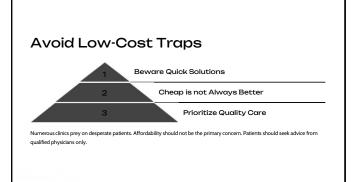


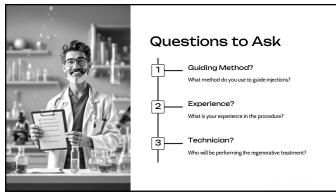
Matrix Formation
It aids in forming new tissue matrix.



_ongevity

Scaffolding can improve therapy longevity.





Injection **Guidance Method**

Precise Placement

 ${\it Effectiveness \, requires \, precise \, placement. \, Guiding \, method \, is}$ essential.

Accurate Targeting

Choose clinics using fluoroscopic or ultrasound needle guidance. They pinpoint injections.



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Avoid Blind Injections

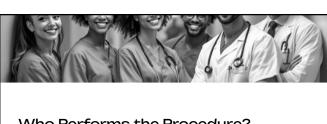
Blind injections often miss the mark. This is true even for experienced

Little to No Results

Without guidance, you could see little relief. Don't waste time and



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Who Performs the Procedure?





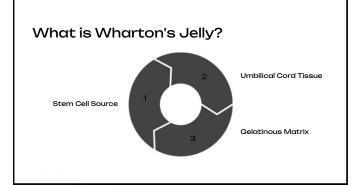


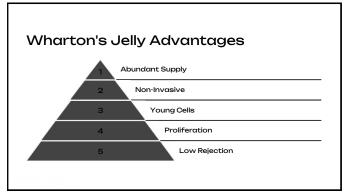
Nurse Practitioners

Physician Assistants



Physician Specialists





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WJ for Providers







Regulatory Rules
Stem cell products must comply with



Characterization

WJ-MSCs need marker and viability

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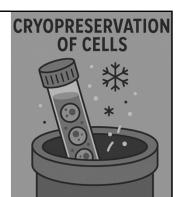
Wharton's Jelly: Cryopreservation

Storage Methods

 $\label{thm:condition} Understand\ cryopreservation\ and\ thawing\ methods.$

Cell Viability

These affect cell viability and function post thawing.



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Patient Selection

Consider Age

Age is an important consideration for WJ.

Assess Condition

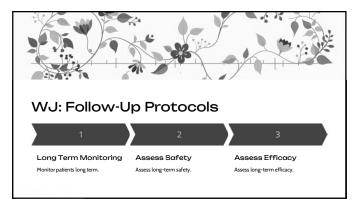
The patient's condition is key to

Note Contraindications

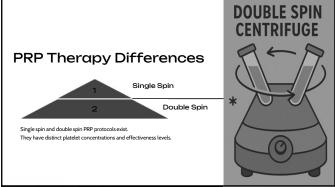
Note all patient contraindications.

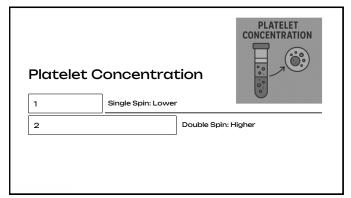


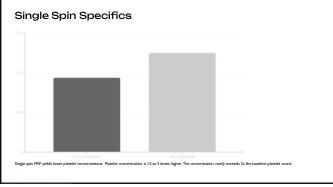
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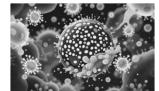
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Double Spin Specifics





5-8x Baseline

Platelet counts can reach 5 to 8 times baseline.

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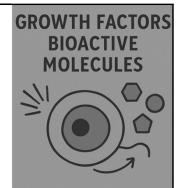
Effectiveness

Growth Factors

 $\label{eq:problem} \mbox{PRP effectiveness links to platelet count.}$

Bioactive Molecules

More platelets, more growth factors, better results.



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Single Spin Effectiveness

- Taster, Cheaper
 Single spin is faster and cheaper overall.
- 2 Moderate Use
 Good for moderate concentration needs.



Double Spin Benefits

Higher Growth Factors More effective with higher needs. Improves Outcomes Potentially better patient outcomes Purer PRP Finer separation, purer PRP produced.

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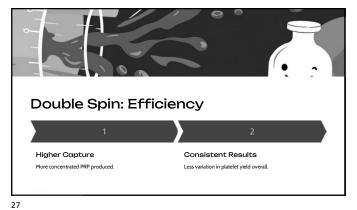


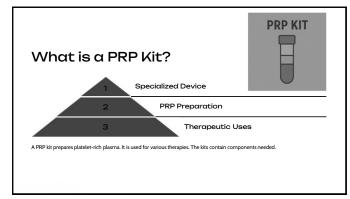
Single Spin Advantages

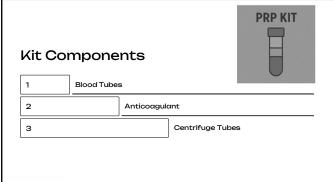


Lower Cost Lower cost overall to perform procedure.

Faster Processing









Pyrogens and Silica

Cytotoxic

Pyrogens and silica are cytotoxic. They hurt anabolic potential overall.

Aesthetic Use

This may be acceptable for aesthetic applications.



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Double Spin PRP Kits

- 1 High Yield System
 Each kit ensures a high platelet yield.
- 7-11x Platelet Concentration
 This provides 9-10 billion platelets per use.



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Maximum Healing

Bio Scaffolding

This helps with maximum healing desired.

Slow Release

It has slow product release over time.

Fewer Procedures

You do not have to perform repeat procedures.



PRP: No Irritants



More Platelets

Less Irritants

You get more platelets from the kits.

The kits contain less overall irritants.



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PRP Summary

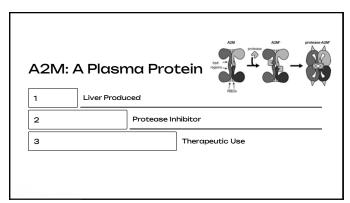


Pyrogen, Silica Free

The kits are certified pyrogen and silica free overall.

White Cell Filter

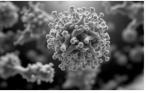
No pain caused by white cell contamination overall.



Biological Roles

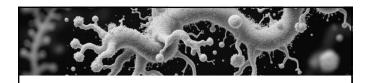






Carrier Protein
It binds to various growth factors and cytokines too.

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A2M Benefits

Cortilage Shield
 A2M protects joint cartilage overall.

2 Anti-Inflammatory
It is an anti-inflammatory ingredient.

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A2M Injection

Concentrated A2M

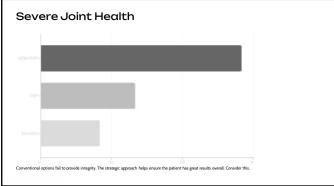
A2M from blood is concentrated during the procedure.

Direct Injection
It is injected directly into the joints.



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Mechanisms of Action A2M Ultimate Protector A2M stops cartilage loss by protecting destructive enzymes. Heated PPP allows a growth factor matrix.

Regen Protocols are Better



Long Term Healing

These protocols provide healing.



Standard Care

Make this the new standard overall.



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Why All Regenerative Therapies Are Not Alike

In this presentation, we'll discuss differentiating factors. These factors impact effectiveness and pricing, Regenerative Medicine Therapies are diverse. It is important to understand these differences.



