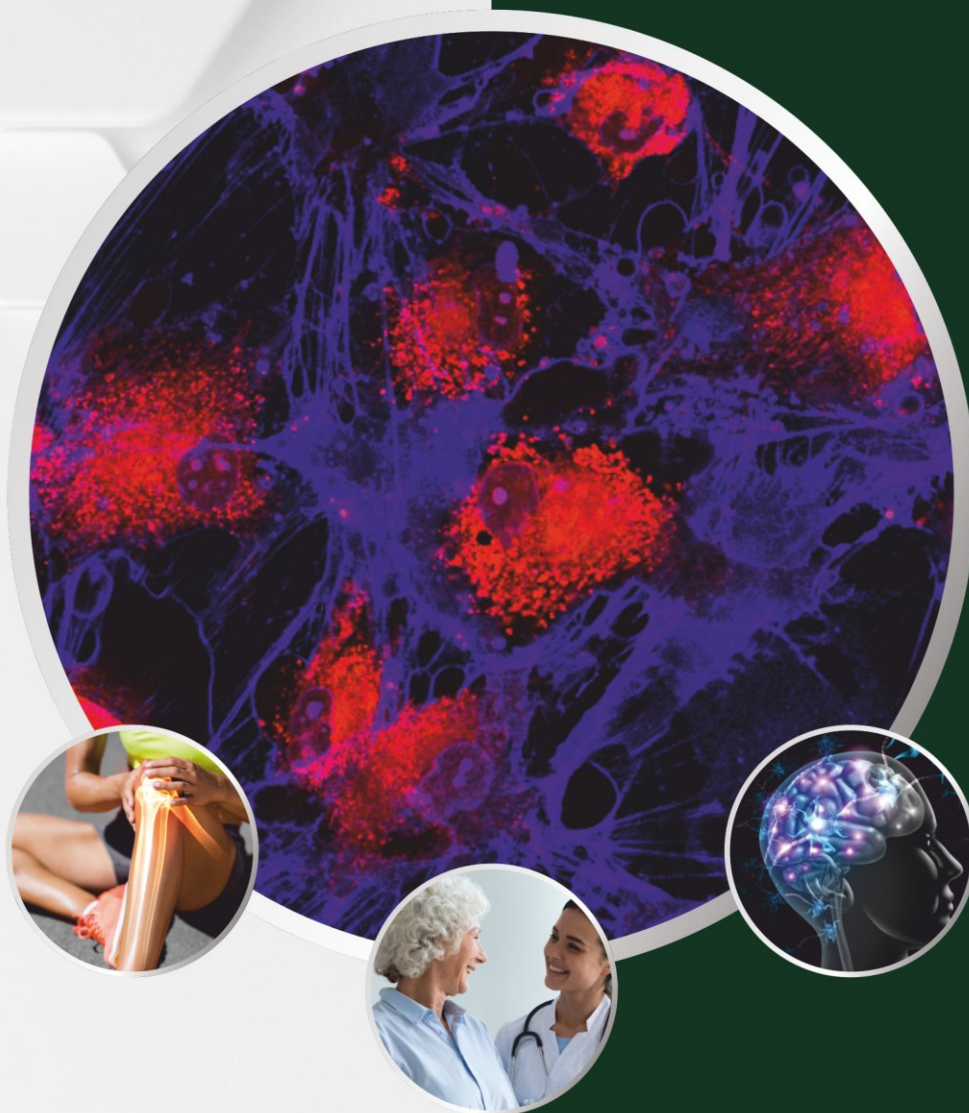


REGENERATIVE CELL THERAPY



STEMCELLINE

- Regenerate | Repair | Renew -

"We are made of Cells, not Made of Drugs"

— Cade Hiderath



www.stemcelline.com



Stemcelline outline

1. Who stemcelline are ?

STEMCELLINE is the leading research and medical centre in India focussing on regenerative medicine and cellular therapy. Rewrite your destiny with the unlimited therapeutic scope of Stemcelline using our highest graded adult stem cells and allergenic regenerative medicines processed in accordance with all the governmental guidelines such as CDSCO, GLP, and GMP. Our highly-advanced laboratories provide better success rate and superior quality autologous and allergenic stem cells compared to the other laboratories at an affordable price!

1. How are we different from others

- Highly Concentrated MSC
- Improved results
- No side effects
- Ethical Method of preparation
- Highly advanced laboratories
- Utmost importance to patient safety and outcomes

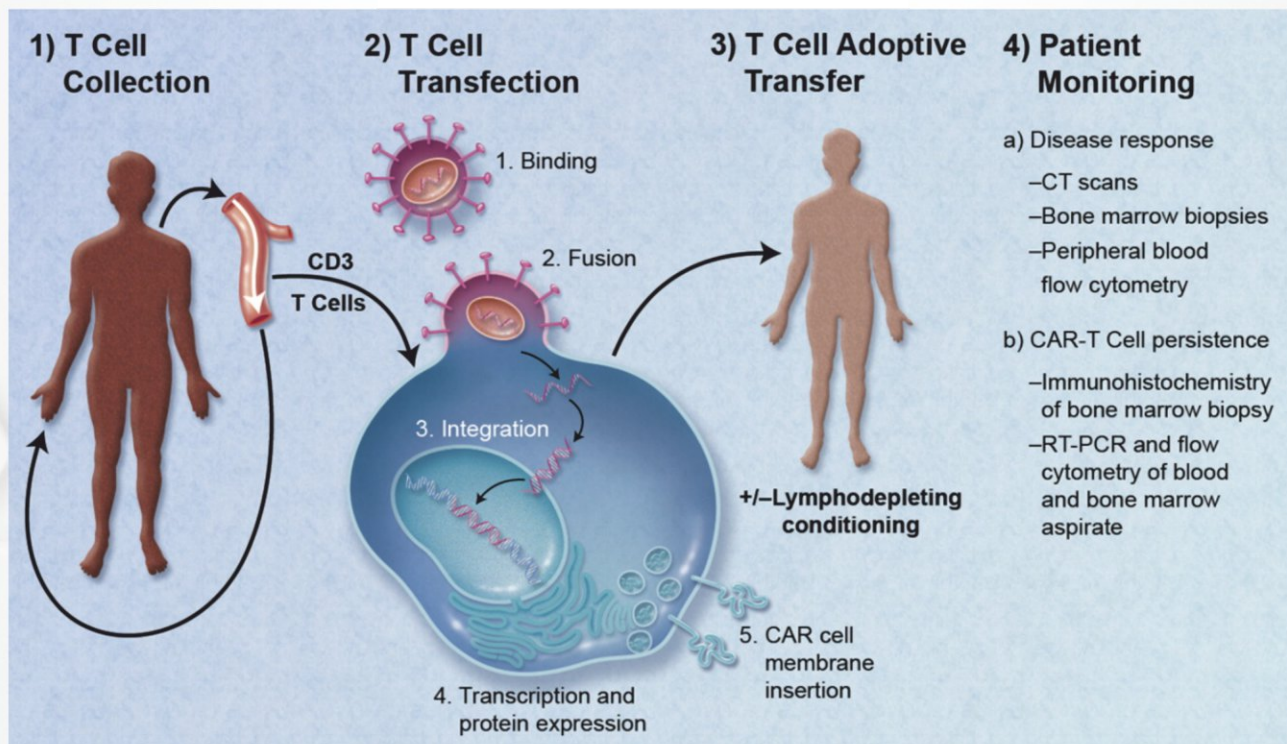
Fighting the medically rejected cases.

Stem cells offer solutions to a plethora of **advanced medical conditions**. The miraculous benefits of regenerative therapy are beyond the limitations of conventional medication. Hence when the possibilities of conventional medicine end, **Stemcelline** takes charge, providing medical assistance to conditions rejected by traditional medicine. Stemcelline is the most trusted research centre in the world having labs that build up amazing clinically tested and cruelty-free products.

Stemcelline provides medication for a bulk of diseases with the help of several regenerative medicines.

Diseases that get treated with these advanced next-gen regenerative therapeutics with proven results are:

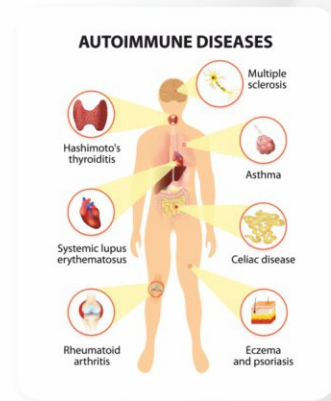
Diabetes, Arthritis, Osteoarthritis, Paralysis, Heart disease, Parkinson's disease, Avascular necrosis, Spinal cord injuries, Auto-immune diseases, Alzheimer's disease, Liver cirrhosis, Asthma, Obesity, Dermatomyositis, Ulcers and many more as the research is under process for other diseases and can be classified into Auto-immune disorders and treatment, Specific & Custom MSC-derived cellular products, and Miscellaneous treatments.



Autoimmune disorder:

■ Dendritic MSC:

Dendritic MSC (Mesenchymal Stem Cells) cultured from cord blood fight for the **immunological system**. It instructs the immune system to demolish the tumour cells present in the body. Thus **boosting the immune response** in the cases of medically rejected autoimmune diseases and helping in curing the condition.

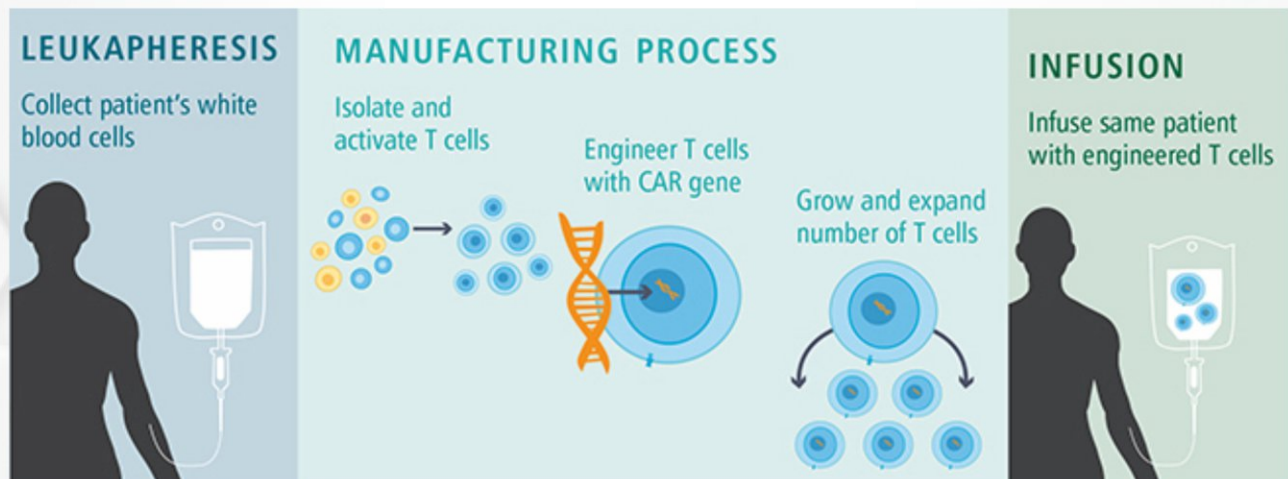


■ Beta cells:

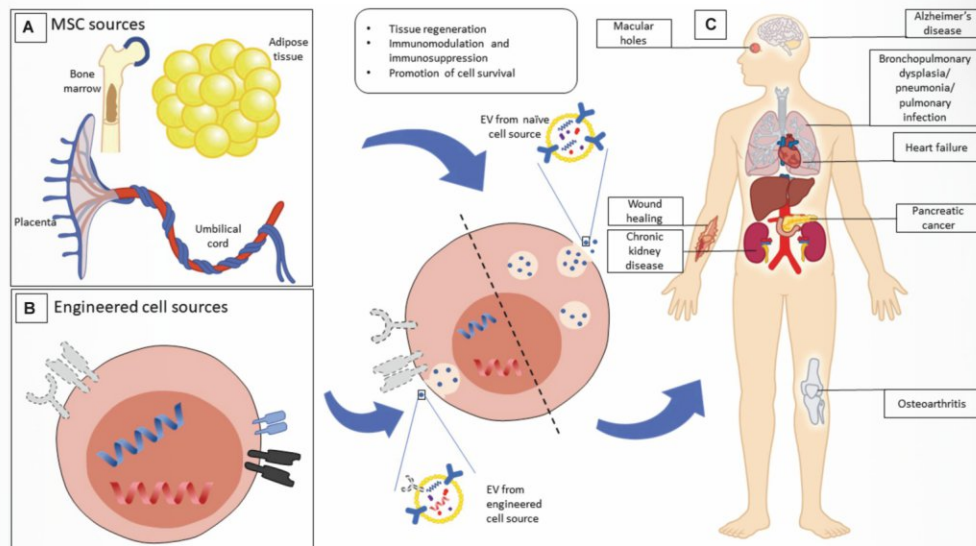
For patients with **diabetes**, the body stops producing insulin in the required amount. The injection of insulin every day is painful and is not a permanent cure. These beta cells, once injected into the body, **boost the insulin levels** in the pancreatic duct of the patient. Hence, the insulin in the body will be sufficient, making it a cure for diabetes. There has been an affirmative recovery rate in patients suffering from Type-1 diabetes.

■ Natural killer cell:

For a cancer patient, chemotherapy is currently available in most of the traditional ways of treatment. But chemotherapy comes at an expense of the patient becoming very weak. With the advanced NK cells, also called Natural Killer cells, the body by itself activates the LAK cells that **kill cancer cells** completely and remove the tumour. This has been a promising option as an **alternative to chemotherapy**. Results of comparing both have declared NK cells as the winner for several reasons, including - making use of natural processes, and a better recovery rate.



Specific MSC-derived cellular products:



Minimal Manipulation Procedure

This MMP procedure does not involve culture. The MSCs are isolated from the fat tissue, bone marrow, umbilical cord blood or tissue. The best part is, the procedure is done in just a single day. Therefore, it saves time!

Xeno-Free Mesenchymal Stem Cell

These MSCs are enriched with immunomodulatory functions and cytokine secretion levels in a xeno-free media. The advantage of using xeno-free media is **more potency and growth factor**. Stemcelline's Xeno-free MSC are cruelty-free as well. Due to high proliferation, the replication of cells is higher, promising a better recovery rate compared to the traditional methods.

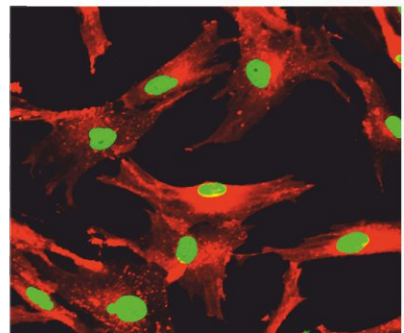
Hypoxic Mesenchymal Stem Cell

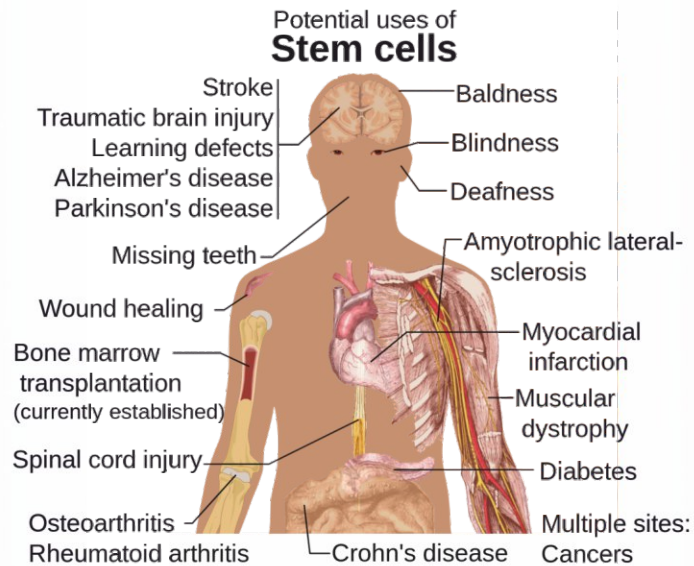
The hypoxic condition ensures around 2 to 4 % Low oxygen level. This makes them **SuperCells**. The supercells have a very quick recovery rate with excellent regenerative properties.

Customised MSC-derived cellular products:

Neurocyte differentiated MSC

Patients suffering from **neurons and nerve tissue**-related disorders can choose the neurocyte differentiated MSCs. This contains stem cells that activate the **WNT signalling factors** and help repair the targetted neurons and nerve tissues.



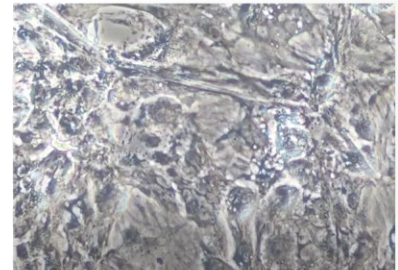


Chondrocytes MSC:

The chondrocyte MSCs help in curing dead and damaged **muscle tissues and bone cartilage** at a faster rate. The deformed functionality and sensory inside the muscles or bones are repaired and healed fully at a very faster pace than any other normal treatment methods.

Cardiomyocytes MSC:

These cells control the fast beating of the heart along with repairing cardiac tissues to **completely heal the cardiac functionality**. The damaged tissues of the heart are repaired at a very quick pace as they super proliferate.



Miscellaneous treatments:

Stemcelline is the best way of curing diseases and helps in promoting a **healthy and happy lifestyle**. It helps to keep you away from all types of harm.

The activated PRP i.e., the Platelet Rich Plasma is enriched with VEGF, TGF- β I, PDGF-AB, IL- β TNF, etc., to treat various conditions such as balding through **hair re-growth, anti-ageing**, arthritis, and various other conditions both cosmetic and severe medical conditions.

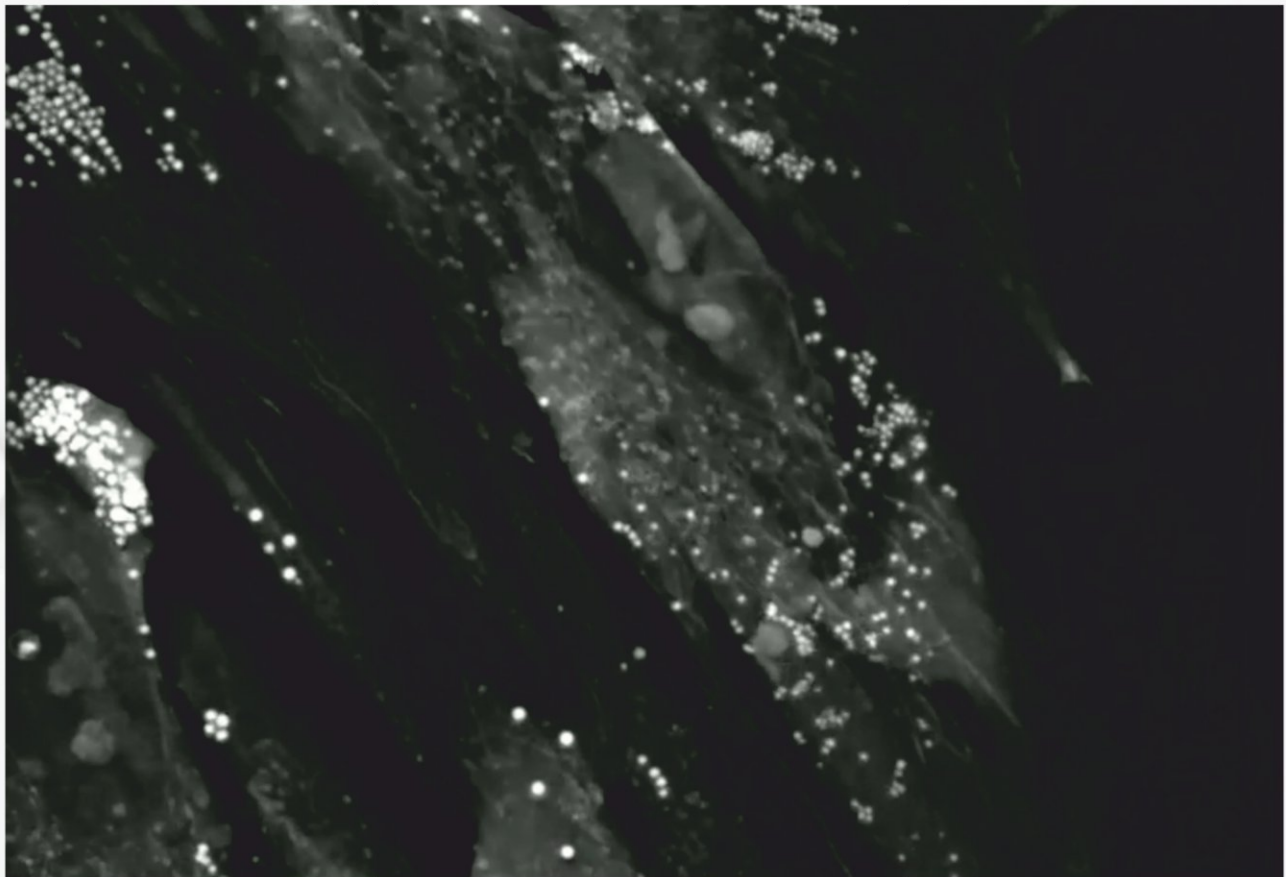
Stemcelline's activated PRP contains **10⁶ times more rich concentrated** plasma to speed up the healing process and achieve promising results.

Better than the rest - Not just saying, it is the FACT!

The Foundation for the Accreditation of Cellular Therapy (FACT) has patted Stemcelline for following world-standard procedures in the research and development of cellular therapies and making quality, rich-concentrated products available to humankind at an affordable price!

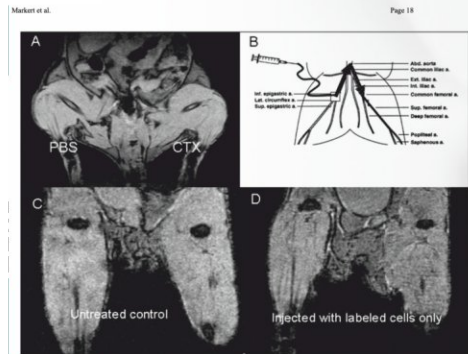
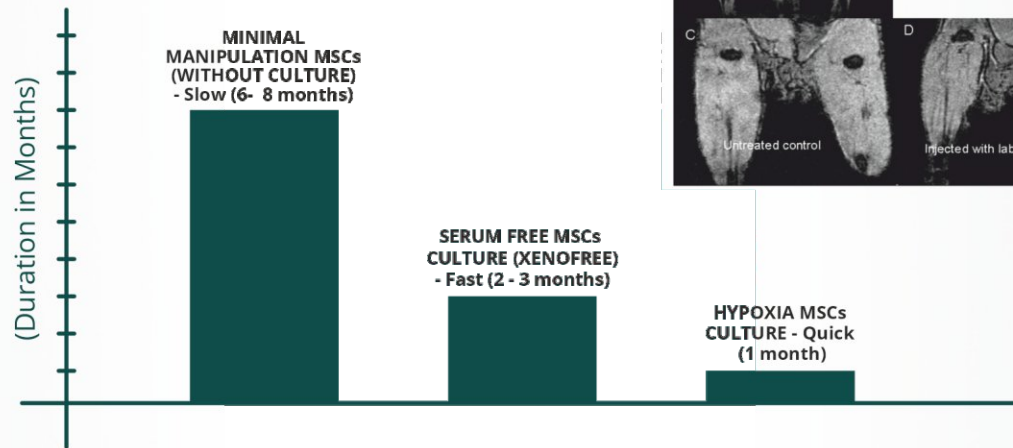
Why is Stemcelline the best?

- **Patient-specific**
- Highly-equipped **advanced** laboratory
- **Universally accepted** for all regenerative medicine
- The nature of the cell is not modified, thus, uses **natural processes**
- **ZERO probability** of cancer formation, unlike others.
- Safe & Reliable
- Simple and **painless** procedures
- **Faster** recovery rate
- Cruelty-free and sustainable
- **15% higher success rates** compared to others in the existing global market

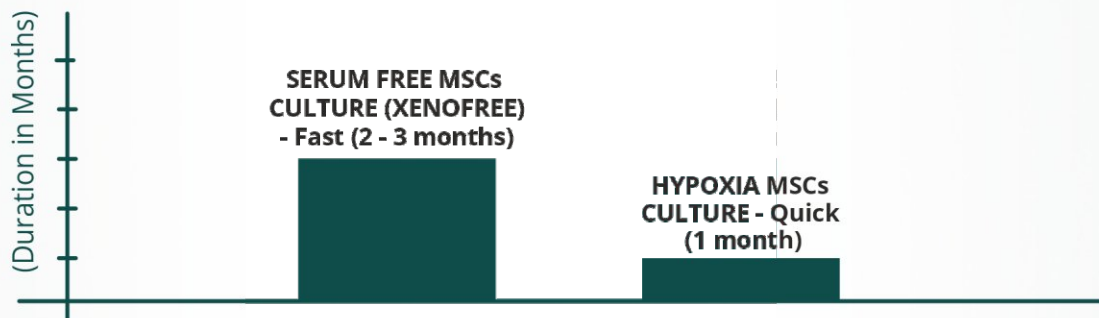


Stemcelline offers both Autologous and allogenic MSCs. Autologous MSCs are 10 to 20 % more affordable than allogenic MSCs for most types of cells. Some major ailments which might require stem cell therapy are spinal cord-related issues, diabetes, neurological disorders, skeletal disabilities, and neuro-Musco-skeletal diseases.

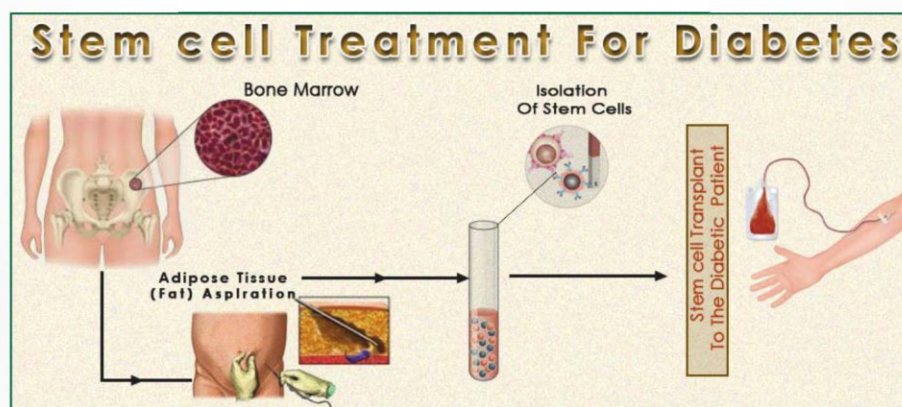
Recovery rate:



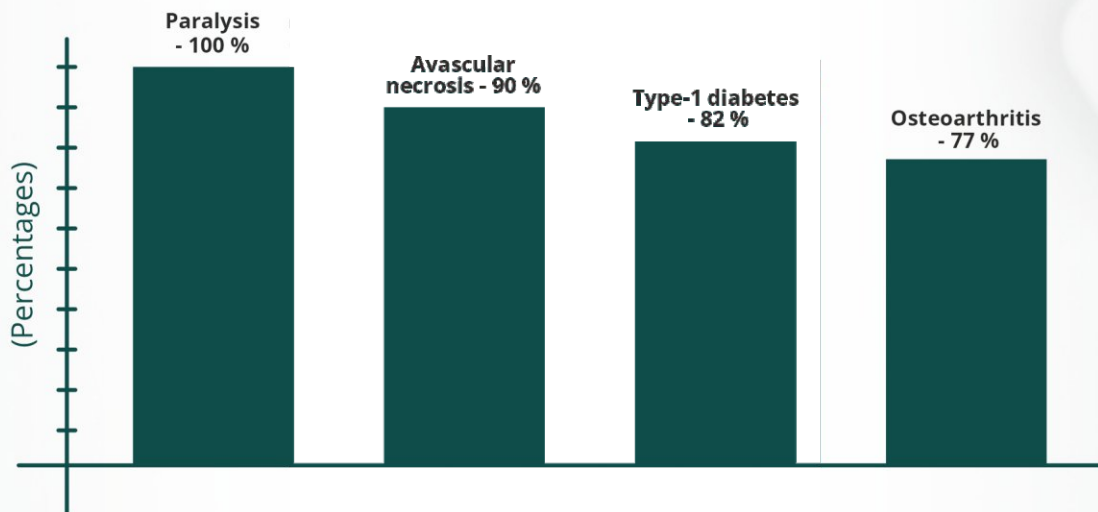
For Osteoarthritis, ligament tear, sports injuries, grade 1 spinal cord injuries, autism, cerebral palsy etc.



For Allergenic Cases - Viral Infections - HIV, HCV



Based on our clinical trials and real-time patient usage, the below success rates are seen



And most diseases such as neuro-musculoskeletal disorders, leukaemia, obesity, spinal cord injuries, etc., have a success rate of more than 50 %.

Ready to Serve You, Anytime

We understand how difficult it is to cope with all the latest trends in advanced medicine and its possibility to form endless doubts in a person's mind. Hence, Stencelline is glad to help you throughout your medical journey. Our client service is available 24/7 to clear your doubts and queries. Please feel free to reach out through our mail/telephone for doubts, queries, appointments and doctor consultations. We also offer the best rehabilitation therapy that aids regenerative medicine and helps you swim beyond the horizon and move ahead of your destiny!

We provide online & offline services.



Magnetic resonance imaging Osteoarthritis Knee Score

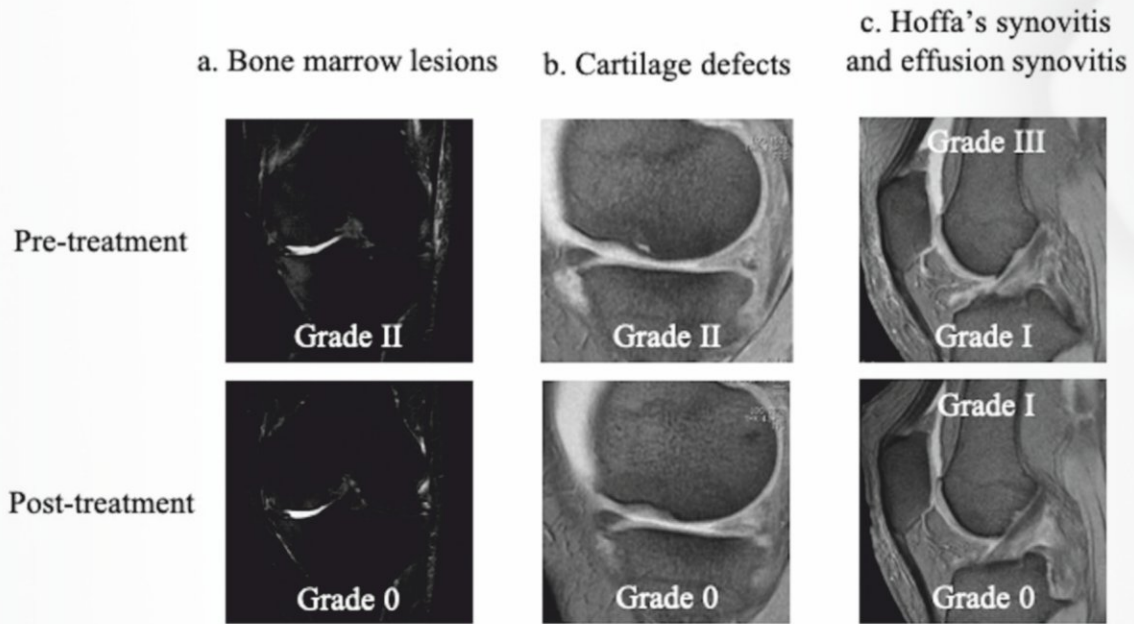


Figure 2

Representative cases of imaging evaluations. a) Bone marrow lesion improved from Grade II to 0 before and after treatment. b) Cartilage defects improved from Grade II to Grade 0 before and after treatment. c) Hoffa's synovitis improved from Grade I to 0 before and after treatment, and effusion synovitis also improved from Grade III to I before and after treatment.

Bone marrow lesions			
	Low-dose group	High-dose group	P value between two groups
Medial TF joint			
Baseline prevalence	17/30 (56.7%)	17/30 (56.7%)	1.00
Progression	4/30 (13.3%)	3/30 (10.0%)	0.69
No change	17/30 (56.7%)	17/30 (56.7%)	1.00
Improvement	9/30 (30.0%)	10/30 (33.3%)	0.78
Lateral TF joint			
Baseline prevalence	6/30 (20.0%)	5/30 (16.7%)	0.74
Progression	1/30 (3.3%)	1/30 (3.3%)	1.00
No change	27/30 (90.0%)	25/30 (83.3%)	0.45
Improvement	2/30 (6.7%)	4/30 (13.3%)	0.39
Patellofemoral joint			
Baseline prevalence	1/30 (3.3%)	0/30 (0.0%)	0.31
Progression	1/30 (3.3%)	0/30 (0.0%)	0.31
No change	29/30 (96.7%)	30/30 (100.0%)	0.31
Improvement	0/30 (0.0%)	0/30 (0.0%)	1.00
Tibiofemoral (TF)			

Table 4c. Imaging evaluation results of cartilage defects by magnetic resonance imaging Osteoarthritis Knee Score system.

Cartilage defects			
	Low-dose group	High-dose group	P value between two groups
Medial TF joint			
Baseline prevalence	18/30 (60.0%)	20/30 (66.7%)	0.59
Progression	3/30 (10.0%)	3/30 (10.0%)	1.00
No change	23/30 (76.7%)	22/30 (73.3%)	0.77
Improvement	4/30 (13.3%)	5/30 (16.7%)	0.72
Lateral TF joint			
Baseline prevalence	19/30 (63.3%)	21/30 (70.0%)	0.58
Progression	3/30 (10.0%)	3/30 (10.0%)	1.00
No change	23/30 (76.7%)	22/30 (73.3%)	0.78
Improvement	4/30 (13.3%)	5/30 (16.7%)	0.72
Patellofemoral joint			
Baseline prevalence	14/30 (46.7%)	14/30 (46.7%)	1.00
Progression	5/30 (16.7%)	1/30 (3.3%)	0.09
No change	25/30 (83.3%)	28/30 (93.3%)	0.23
Improvement	0/30 (0.0%)	1/30 (3.3%)	0.33
Tibiofemoral (TF)			

Table 4d. Imaging evaluation results of osteophytes by magnetic resonance imaging Osteoarthritis Knee Score system.

Osteophytes			
	Low-dose group	High-dose group	P value between two groups
Medial TF joint			
Baseline prevalence	27/30 (90.0%)	29/30 (%)	0.30
Progression	2/30 (6.7%)	1/30 3.3(%)	0.55
No change	28/30 (93.3%)	29/30 (96.7%)	0.55
Improvement	0/30 (0.0%)	0/30 (0.0%)	1.00
Lateral TF joint			
Baseline prevalence	27/30 (90.0%)	28/30 (93.3%)	0.64
Progression	1/30 (3.3%)	0/30 (0.0%)	0.31
No change	29/30 (96.7%)	30/30 (100.0%)	0.31
Improvement	0/30 (0.0%)	0/30 (0.0%)	1.00
Patellofemoral joint			
Baseline prevalence	27/30 (90.0%)	27/30 (90.0%)	1.00
Progression	1/30 (3.3%)	1/30 (3.3%)	1.00
No change	29/30 (96.7%)	29/30 (96.7%)	1.00
Improvement	0/30 (%)	0/30 (0.0%)	1.00
Tibiofemoral (TF)			

Table 4e. Imaging evaluation results of Hoffa's synovitis and effusion synovitis by magnetic resonance imaging Osteoarthritis Knee Score system.

Hoffa's synovitis			
	Low-dose group	High-dose group	P value between two groups
Baseline prevalence	27/30 (90.0%)	27/30 (90.0%)	1.00
Progression	1/30 (3.3%)	1/30 (3.3%)	1.00
No change	18/30 (60.0%)	16/30 (53.3%)	0.60
Improvement	11/30 (36.7%)	13/30 (43.3%)	0.60
Effusion synovitis			
Baseline prevalence	28/30 (93.3%)	27/30 (%)	0.64
Progression	0/30 (0.0%)	1/30 (3.3%)	0.31
No change	21/30 (70.0%)	17/30 (56.7%)	0.28
Improvement	9/30 (30.0%)	11/30 (36.7%)	0.58

Table 5a. Number of Grading in evaluation of bone marrow lesions.

Products that we have are :

1. Stemcelline Vial - UC Xeno - Free Mesenchymal cells

Note: FOR RESEARCH PURPOSE ONLY.

2. Stemcelline Vial - WJ- Exo

Note: FOR RESEARCH PURPOSE ONLY.

Intended uses and the preparation method of our product.

Stemcelline Vial - UC Xeno Free Mesenchymal cells

100 million in 5mL Vial

Price: \$3,000 USD per Vial

[Order now](#)



The majority of MSC applications include the therapy of immune- and inflammation-mediated disorders as well as tissue degradation, with MSCs showing significant promise for the treatment of incurable diseases.

Fetal bovine serum (FBS), a popular supplement for cell growth but also a potential risk for transmission of infections obtained from animals, is a component of conventional MSC cultures.

How are we different?

- The health and medicine use of the donor is just two factors that affect the quality of MSCs.
- The quantity of MSCs recovered from older individuals is often modest since in vivo MSC synthesis declines with age. Therefore, creating a technique that consistently provides high MSCs is crucial for cell therapy.



The possibility of safe usage in human clinical therapy was demonstrated using xeno-free media. A xeno-free medium must be studied before being used for MSC cultures since these xeno-free media have various effects on MSCs.

To find a common cultural setting for all of these MSC sources, we experimented with a commercial xeno-free. The cells' population doubling times (P2 to P6) and the expression of surface markers were examined.

We found two medium candidates that supported the isolation and culture of UC-MSCs using UC as the main screening. MSCs produced from BM and AD can also grow in these environments. The cells might develop into chondrocyte, adipocyte, and osteoblast/osteocyte lineages.

In order to determine the safety and viability of using UC-MSCs to treat bronchopulmonary dysplasia and chronic obstructive pulmonary disease, we are now undertaking a phase 1 clinical investigation.

Stemcelline Vial - WJ- Exo

100 billion in 2mL Vial

Price: \$300 USD per Vial

[Order now](#)





One of the subpopulations of EVs is referred to as "exosomes." Apoptotic bodies and microvesicles/shedding particles are the other two subpopulations (both larger than 100 nm). Exosomes are created when late endosomes, or so-called multivesicular structures, sprout intraluminal vesicles (ILVs) in their luminal region (MVBs). Once the MVBs have been incorporated into the cellular membrane, the ILVs are subsequently released as exosomes.

Because of their wide availability, low cost, and simple, non-invasive isolation process, WJ-MSCs offer a lot of potential for allogeneic and autologous transplantation.

Additionally, WJ-MSCs are highly proliferative, nontumorigenic, and do not result in teratomas following transplantation. WJ-MSCs are thus ideal for regenerative medicine. Mesenchymal stem cells use paracrine mediators like exosomes to restore tissue injury.

One of the paracrine mediators generated from MSCs is the exosome. They are microscopic, membrane-bound vesicles with a size range of 30–100 nm that is secreted by several cell types. They also transport cargo to the intended tissues, including proteins, mRNA, and non-coding RNA.

How do we prepare Stemcelline vial- WJ-Exo?

We examined how WJ-MSCs-derived exosomes affected the expression of fibrotic genes such as α -smooth muscle actin, E-cadherin, collagen 1, and Smad2/3 phosphorylation. Additionally, we looked at whether pretreating WJ-MSCs with various TGF doses altered the anti-fibrotic characteristics of their exosomes.

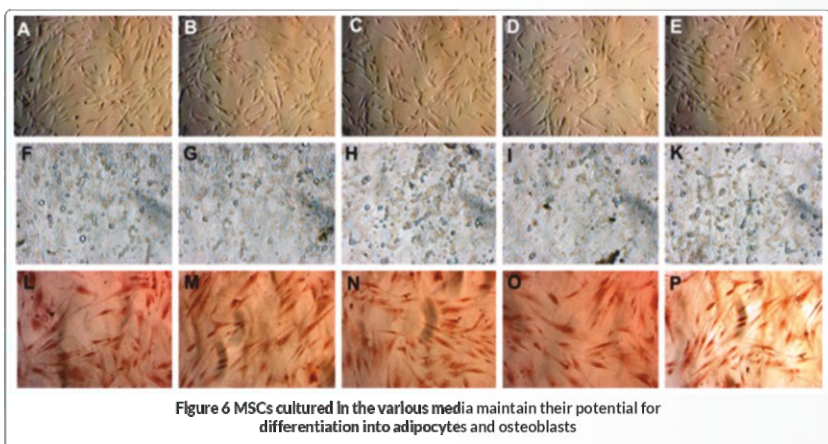
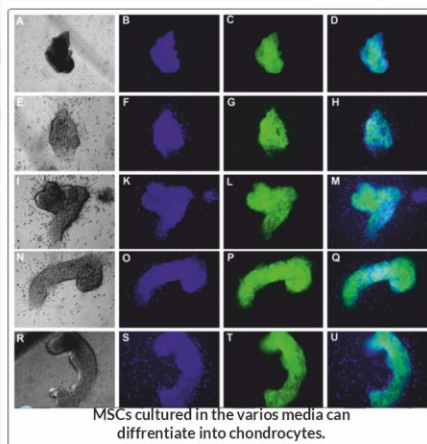


How is the Stemcelline vial different?

MSCs can be extracted from Wharton's jelly and used in clinical settings. There are no ethical issues with employing these MSCs, and they have more stem-like characteristics than other tissue-derived MSCs.

It appears that Wharton jelly-derived cells might be great sources for the therapy of this illness in the future, based on preclinical research using mesenchymal stem cells produced from various sources in the pulmonary fibrosis model.

By doing more clinical testing studies with WJ-MSCs, it will be feasible to provide a clear view on the future management of pulmonary fibrosis. While waiting for a new therapeutic strategy to be developed, patients with pulmonary fibrosis may benefit from choosing the right cell dosage, number of injections, injection technique, and precise procedures for cell isolation, culture, and proliferation.



*"In the beginning there is the stem cell;
It is the origin of an organism's life."*

— Stewart Sell



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