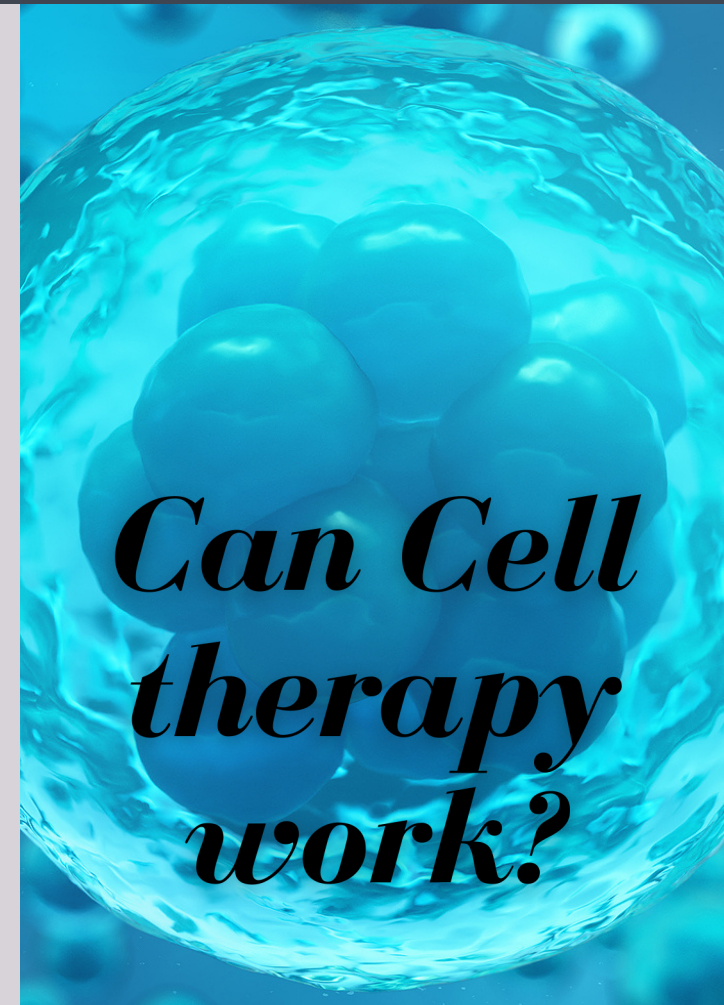




## ***We believe cell therapy is the future of medicine***

The potential of cell therapy is simply astounding. Research is ongoing in its use for the treatment of paralysis and nerve diseases, diabetes, and even heart disease. These studies are ongoing and there is much research to be done in these areas. However, the famed Mayo clinic has already published data showing cell therapy to be "safe and effective" in the treatment of knee arthritis.

As part of the Bluetail Medical Group, we benefit from the data and experience of over 50,000 autologous stem cell procedures. We use only the patient's own cells, as researchers have shown again and again that freezing and thawing cells most often leads to no living stem cells, and there are other risks. For more information listen to the podcast "bad batch" from Wondery.



## ***Can Cell therapy work?***

**HERE ARE SIX REASONS  
TO BELIEVE IT CAN!**

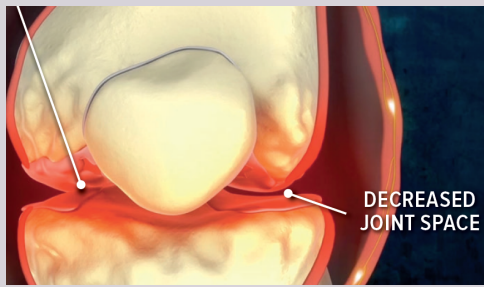
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## ***6 Clinical studies have shown favorable outcomes with cell therapy***

Phillipe Hernigou is an Orthopedic surgeon and stem cell researcher and has been studying cell therapy for years. In 2018 Dr. Hernigou published a study in which he had treated patients with (osteonecrosis) knee arthritis in both knees. He had these patients agree to have total knee surgery on one knee, and cell therapy on the other knee. He then followed these patients for many years.

At the end of the study, 2 out of 3 patients preferred the cell therapy treatment to surgery, as their treatment of choice.



## ***Cell therapy to treat Arthritis and spine pain***

Pain is a fact of life as we age. The symptoms may worsen with time and we doctors often prescribe the same treatments that don't seem to work.

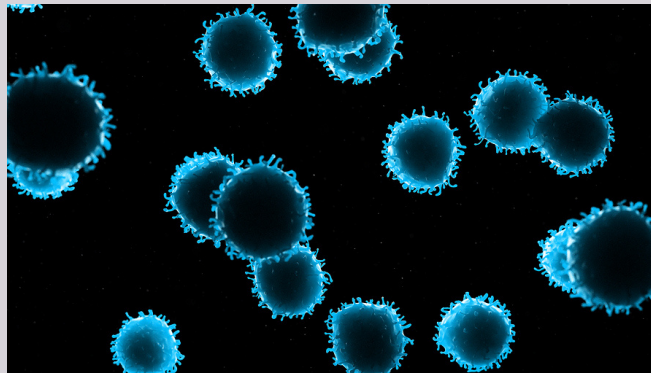
Cell therapy is a new and exciting field of medicine based on the idea that our own cells can heal injured tissues! But can this really work?

### ***1 There is clear evidence stem cells can grow cartilage***

The major issue in arthritis pain is thought to be the loss of cartilage. We also have believed for decades that this loss of cartilage was irreversible. However recent studies have shown that cartilage can be grown, in the lab, by stem cells.

### ***2 Mesenchymal stem cells can grown bone***

Doctors and researchers have known for some time that stem cells can grow new bone. A 2013 study entitled "mesenchymal stem cells in bone regeneration" showed that these cells could become new bone cells, and create bone growth.



### ***3 These cells can heal ligaments and tendons***

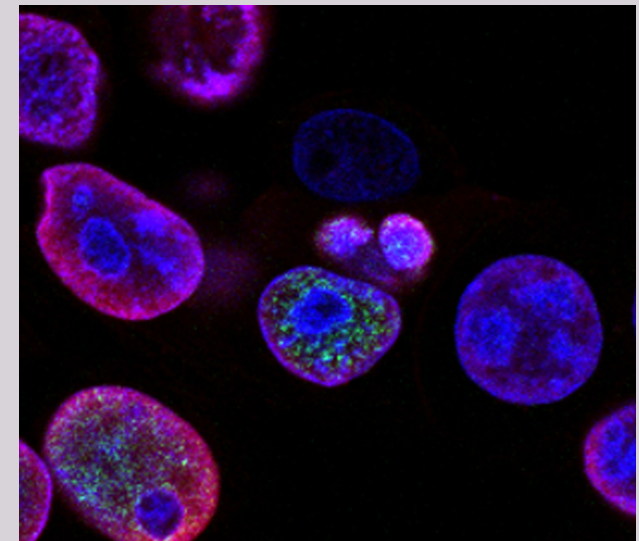
Researchers have also shown that these same stem cells that can produce bone, when subjected to the proper signals, can grow tendon and ligaments. They can also repair meniscal injuries in the knee.

### ***4 Mesenchymal stem cells self-replicate***

Another reason for optimism with cell therapy is that stem cells self-replicate. They can reproduce at very high rates and supply a virtual army of cells to aid in the healing process. This is thought to lead to long term effects that may last indefinitely.

### ***5 Stem cells limit inflammation***

These cells have the capacity to lay down a barrier , inside which, they can drastically limit inflammation. This is known as immune modulation and since inflammation is what leads to the degradation of proteins , this can clearly be beneficial in treating pain and arthritis.



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