

How CReATe Goes One Step Further. Peristem™

Cord Tissue Mesenchymal Stem Cells

What are Mesenchymal Stem Cells?

Mesenchymal stem cells or MSCs are a different type of stem cell that is found in the tissues surrounding the blood vessels of the baby's umbilical cord. These cells are the building blocks of the structural tissues (bone, cartilage, muscle, and fibrous tissues) of our body.

What are the benefits of MSCs?

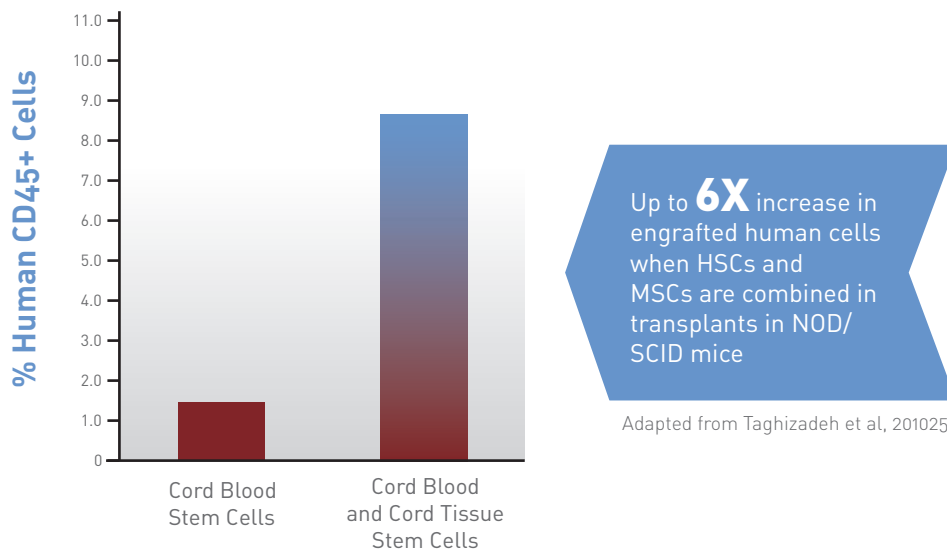
MSCs could be used in the treatment of conditions such as:¹

- Degenerative arthritis
- Birth defects
- Multiple Sclerosis
- Heart disease
- Burns
- Autoimmune diseases (such as Crohn's disease or rheumatoid arthritis)
- Traumatic injuries
- Liver disease
- Cancers

Together with cord blood stem cells, they could enhance the treatment of leukemia, lymphoma and other diseases.¹

Engraftment of Human Cord Blood HSCs

(% CD45+ cells in bone marrow isolates)



How CReATe goes one step further. Peristem™

CReATe's exclusive Peristem™ technology allows us to extract the MSCs from the cord tissue prior to banking. Most other banks simply collect and bank minced up cord tissue. They do not isolate and bank the mesenchymal cells – we do!



1. Davies JE, The Therapeutic Promise of Umbilical Cord Tissue Mesenchymal "Stem" Cells. *Fetal Medicine Foundation of America Seminar Series*. March 2014.