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Stem cell therapies in tendon-bone healing

Xu Y *et al.* Stem cell therapy for tendon-bone healing

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Abstract

Tendon-bone insertion injuries such as rotator cuff and anterior cruciate ligament injuries are currently highly common and severe. The key method of treating this kind of injury is the reconstruction operation. The success of this reconstructive process depends on the graft's ability to incorporate into the bone. Recently, there has been substantial discussion about how to enhance the integration of tendon and bone through biological methods. Stem cells like bone marrow mesenchymal stem cells

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Stem cells therapy for tendon–bone healing: current status

Cells	Graft	Carrier	Animal Model	Year
BMP-2 gene-transfected bMSCs	Gastrocnemius tendons	Fibrin glue	Rabbit	2012
Human adult ACL ruptured tissues-derived ...	Flexor digitorum longus tendons	Cell sheet	Rat	2013
bMSCs	Aotologous semitendinosus tendons	collagen sponge or a fibrin sealant	Rabbit	2014
Tendon-derived stem cells	Autologous flexor digitorum longus tendo ...	Cell sheet	Rat	2014

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Author: Zi-Chen Hao, Shan-Zheng Wang, Xue-Jun Zhang, Jun Lu

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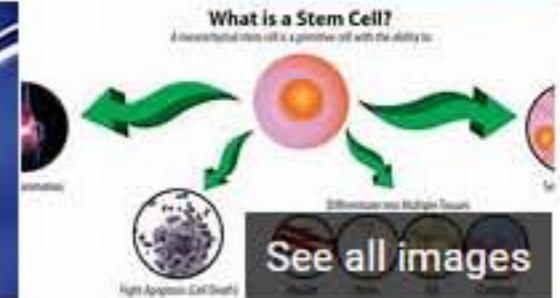
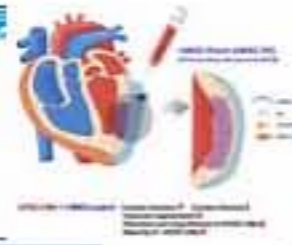
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STEM CELL THERAPY: The Future is Regenerative Medicine



Stem-cell therapy

- CPT code
- Procedure
- Side effects

Stem-cell therapy is the use of stem cells to treat or prevent a disease or condition. As of 2016, the only established therapy using stem cells is hematopoietic stem cell transplantation. This usually takes the form of a bone-marrow transplantation, but the cells can also be derived from umbilical cord blood. Research is underway to develop various sources for stem cells as well as to apply stem-cell treatments for neurodegenerative diseases and conditions such as diabetes and heart disease.

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