

Stem Cell Transplant Process

Adult stem cell Adult stem cells are undifferentiated cells, found throughout the body after development, that multiply by cell division to replenish dying cells and regenerate e3570cflab

It is most often performed for patients with certain cancers of the blood or bone marrow, such as multiple myeloma, leukemia, some types of lymphoma and immune deficiencies. In these cases, the recipient's immune system is usually suppressed with radiation or chemotherapy before the transplantation. Infection and graft-versus-host disease are major complications of allogeneic HSCT. e3570cflab

Stem-cell therapy This usually takes the form of a bone marrow or peripheral blood stem cell transplantation, but the cells can also. hematopoietic stem cell transplantation e3570cflab

Hematopoietic stem cell Hematopoietic stem cells (HSCs) are the stem cells that give rise to other blood cells. In vertebrates, the first. This process is called haematopoiesis e3570cflab

== Medical uses == e3570cflab

Stem-cell line Stem cell lines are derived from either animal. A stem cell line is a group of stem cells that is cultured in vitro and can be propagated indefinitely e3570cflab

Peripheral stem cell transplantation Stem cells can be. blood stem cell transplantation (PBSCT), also called "Peripheral stem cell support", is a method of replacing blood-forming stem cells e3570cflab

Hematopoietic stem cell transplantation Hematopoietic stem-cell transplantation (HSCT) is the transplantation of multipotent hematopoietic stem cells, usually derived from bone marrow, peripheral

Stem Cell Transplant Process

Hematopoietic stem-cell transplantation (HSCT) is the transplantation of multipotent hematopoietic stem cells, usually derived from bone marrow, peripheral blood, or umbilical cord blood, in order to replicate inside a patient and produce additional normal blood cells. HSCT may be autologous (the patient's own stem cells are used), syngeneic (stem cells from an identical twin), or allogeneic (stem cells from a donor) e3570cflab

Limbal stem cell Limbal stem cells, also known as corneal epithelial stem cells, are unipotent stem cells located in the basal epithelial layer of the corneal limbus e3570cflab

Stem cell multicellular organisms, stem cells are undifferentiated or partially differentiated cells that can change into various types of cells and proliferate indefinitely e3570cflab

Induced pluripotent stem cell pluripotent stem cells (also known as iPS cells or iPSCs) are a type of pluripotent stem cell that can be generated directly from a somatic cell. The iPSC e3570cflab

Embryonic stem cell Human. Embryonic stem cells (ESCs) are pluripotent stem cells derived from the inner cell mass of a blastocyst, an early-stage pre-implantation embryo e3570cflab

HSCT remains a dangerous procedure with many possible complications; it is reserved for patients with life-threatening diseases. As survival following the procedure has increased, its use has expanded beyond cancer to autoimmune diseases and hereditary skeletal dysplasias, notably malignant infantile osteopetrosis and mucopolysaccharidosis. e3570cflab

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