LOST TEMPLE FITNESS

I	Stem Cell Therapy / Transplant Information and pictures from <i>National Cancer Institute</i> unless otherwise specified				
Quick Summary	of Section				
Stem Cell Therapy / Transplant Types How stem cell transplants work against cancer Side Effects		 Stem cell transplants are procedures that restore blood-forming stem cells in people who have had theirs destroyed by the high doses of chemotherapy or radiation therapy that are used to treat certain cancers. The blood-forming stem cells that are used in transplants can come from the bone marrow, bloodstream, or umbilical cord. Stem cell transplants do not usually work against cancer directly. Instead, they help you recover your body's ability to produce stem cells after treatment with very high doses of radiation therapy, chemotherapy, or both. The high doses of cancer treatment that you have before a stem cell transplant can cause problems such as bleeding and an increased risk of infection. 			
			Description	 Stem cell transplants are procedures that restore blood-forming stem cells in people who have had theirs destroyed by the high doses of chemotherapy or radiation therapy that are used to treat certain cancers. Blood-forming stem cells are important because they grow into different types of blood cells. The main types of blood cells are: white blood cells, which are part of your immune system and help your body fight infection red blood cells, which carry oxygen throughout your body platelets, which help the blood clot You need all three types of blood cells to be healthy. 	
			Types	In a stem cell tran your vein. Once t where they take forming stem cell bloodstream, or u autologo allogenei be a bloo syngenei one To reduce possib work, the donor's more about how	hsplant, you receive healthy blood-forming stem cells through a needle in hey enter your bloodstream, the stem cells travel to the bone marrow, the place of the cells that were destroyed by treatment. The blood- ls that are used in transplants can come from the bone marrow, umbilical cord. Transplants can be: us, which means the stem cells come from you, the patient ic, which means the stem cells come from someone else. The donor may de relative but can also be someone who is not related. c, which means the stem cells come from your identical twin, if you have le side effects and improve the chances that an allogeneic transplant will s blood-forming stem cells must match yours in certain ways. To learn blood-forming stem cells are matched.

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How stem cell	Stem cell transplants do not usually work against cancer directly. Instead, they help you recover your body's ability to produce stem cells after treatment with very high doses of radiation therapy, chametherapy, or both
transplants	таціаціон петару, спетіоспетару, ог росп.
cancer	However, in multiple myeloma and some types of leukemia, the stem cell transplant may work against cancer directly. This happens because of an effect called graft-versus-tumor that can occur after allogeneic transplants. Graft-versus-tumor occurs when white blood cells from your donor (the graft) attack any cancer cells that remain in your body (the tumor) after high-dose treatments. This effect improves the success of the treatments.
	Who receives stem cell transplants?
	Stem cell transplants are most often used to help people with leukemia and lymphoma.
	They may also be used for neuroblastoma and multiple myeloma.
	The high doses of cancer treatment that you have before a stem cell transplant can cause
Side Effects	problems such as bleeding and an increased risk of infection. Talk with your doctor or nurse about other side effects that you might have and how serious they might be.
	If you have an allogeneic transplant, you might develop a serious problem called graft- versus-host disease.
	 Graft-versus-host disease can occur when white blood cells from your donor (the graft) recognize cells in your body (the host) as foreign and attack them.
	This problem can cause damage to your skin, liver, intestines, and many other organs.
	 It can occur a few weeks after the transplant or much later. Graft-versus-host disease can be treated with steroids or other drugs that suppress your immune system.
	The closer your donor's blood-forming stem cells match yours, the less likely you are to have graft-versus-host disease. Your doctor may also try to prevent it by giving you drugs to suppress your immune system.
References	Stem Cell Transplants in Cancer Treatment, National Cancer Institute https://www.cancer.gov/about-cancer/treatment/types/stem-cell-transplant
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