Fast Facts

Sickle Cell Disorder

-Sickle cell anemia is caused by a mutation in the gene that instructs your body to make the iron-rich compound (hemoglobin) which makes your blood red and enables it to carry oxygen -Normally, red blood cells are flexible and round, allowing them to move easily through your blood vessels

-The abnormal hemoglobin causes the red blood cells to become misshapen (they look like crescent moons or sickles). Also, they become rigid and sticky

-These changes result in two problems:

-The first is the deformed cells break apart easily and die, leaving you with fewer blood cells than normal. Typically, red blood cells live for 120 days before they need to be replaced. With sickle cells, they die within 10-20 days, which leaves the person with a shortage. This means the person's body doesn't get enough oxygen

-The second issue is that sickle cells get stuck in small blood vessels, slowing or blocking blood flow, which doesn't allow oxygen to get to specific body parts
-Symptoms vary from person to person and can change over time

Symptoms	Treatment	Prevention Prevention
-Fatigue	Goal: relieve symptoms,	Avoid Complications:
-Pain usually in the joints,	and prevent complications.	-Take folic acid supplements
abdomen, chest, and bones		-Eat a variety of fruits,
(typically occurs	Medications:	vegetables, and whole grains
periodically and is known	-Narcotics	-Drink plenty of water (about
as a pain crisiscan vary,	-Hydroxyurea	eight glasses a day) -Try to avoid
and episodes can last from	-L-glutamine oral powder	temperature extremes
a few hours to a few	-Crizanlizumab	-Get regular exercise without
weeks)	-Voxelotor	overdoing it
		-Don't smoke
	-Blood transfusions	-Be cautious with over-the-
	-Stem cell (bone marrow)	counter pain medications, like
. 9	transplant	ibuprofen or naproxen sodium
71.		-Explore other ways to cope with
.00		the pain (heating pads, hot baths,
		massages, or physical therapy)
:,6)		-Find someone (a family member,
1610		friend, or therapist) to talk to
· 6/1,		-Prevent infections
COX,		Canatia assumaslina maism ta
0.		-Genetic counseling prior to
		having children

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