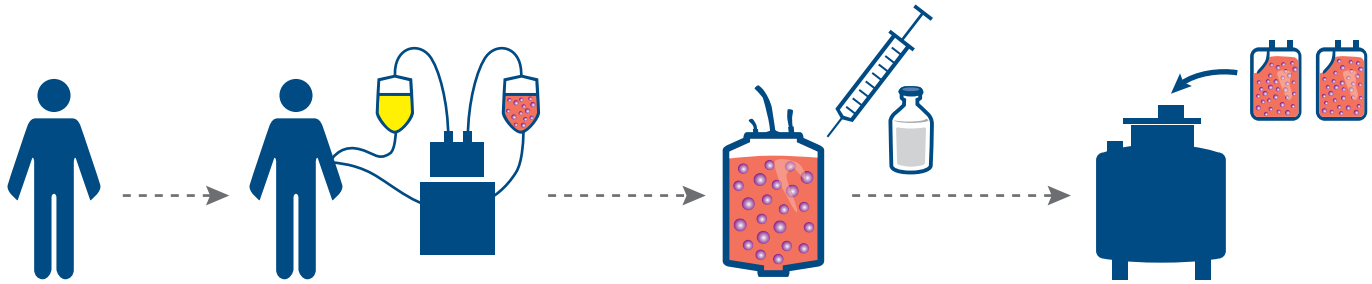
Autologous Stem Cell Transplant Process

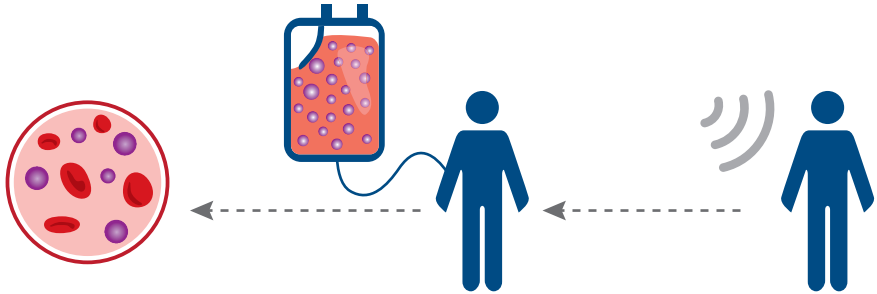


Patient (self)

Collection
Stem cells are collected from patient's blood.

Processing and Freezing
Collected stem cells are processed and frozen in the laboratory.

Storage
The frozen stem cells are stored in a liquid nitrogen tank until infusion day.



Chemotherapy/ Radiation
Chemotherapy and/or radiation therapy is given to the patient.

Infusion
Thawed stem cells are infused into the patient.

Engraftment
The cells move through the bloodstream and settle in bone marrow. They begin to grow and produce new red blood cells, white blood cells and platelets.

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