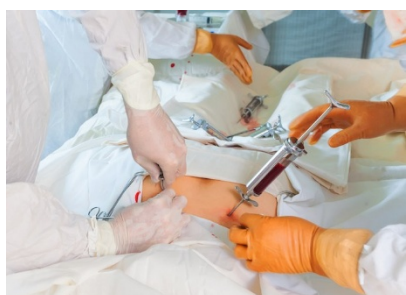
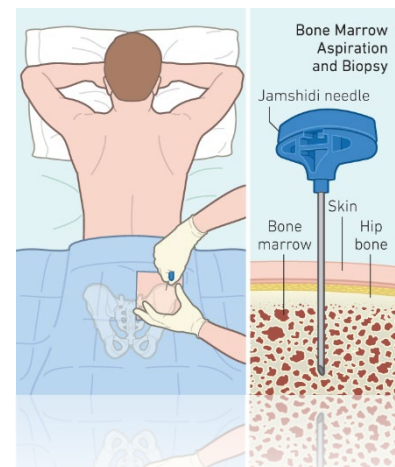


# Bone Marrow Transplants

A bone marrow transplant is a medical procedure that will be performed to replace bone marrow that has been damaged or destroyed by disease, infection, or chemotherapy. There are many reasons for individuals needing a bone marrow transplant and they are being taken place the majority of the time. This procedure will involve transplanting blood stem cells, which will travel to the bone marrow where they produce new blood cells and promote growth of new marrow. (health line, 2018). When the individual is having this done it will roughly take an hour or two, but the individual will be asleep.



With bone marrow transplants there can be complications that can occur after it has been done. Some of these complications are nausea, pain, drop in their blood pressure and shortness of breath. But these can happen for a numerous reasons such as the individuals age or their health.

During the procedure the doctor will put a Jamshid needle into the individual hip and this is there are where most of the stem cells will be found and once this is in place the doctor will syringe the bone marrow out of the individuals hip.

There are three different types of bone marrow transplants and these are autologous, allogeneic and syngeneic. Within the autologous transplant the stem cell will be the individuals own and the individual will not need a donor. All of the bone marrow and stem cells will be removed from the individual before they start having chemotherapy. Whereas, allogeneic transplants there will be healthy stem cells that will be taken from a donor and they will then be transplanted into the individual that need the transplant. Syngeneic transplants are when the stem cells will be taken from an identical twin.

Anyone can be an bone marrow donor but the individual who is wanting to do this will have to make sure that they are the correct match before they start their donation. The individual will have to register to the NHS blood and transplant team and they will have to have tests to see if they are a well enough to go through with it. They can get all of the information they need on this website.

<https://www.bbmr.co.uk/joining-the-register/>

## Reference list:

Healthline. 2018. Bone marrow transplants. [Online] Available at: <https://www.healthline.com/health/bone-marrow-transplant#:~:text=A%20bone%20marrow%20transplant%20is,promote%20growth%20of%20new%20marrow.> [Accessed: 4-6-20]