

Stem cell therapy

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About Stem cell therapy:

- It is a form of **regenerative medicine designed** to repair damaged cells within the body by reducing inflammation and modulating the immune system.
- This phenomenon makes stem cell therapy a viable treatment option for various medical conditions.
- **Process involved:**
 - **Harvesting:** The process of collecting the stem cells to be used in the transplant, either from you or a donor.
 - **Conditioning:** Treatment to prepare your body for the transplant.
 - Transplanting the stem cells.

What are stem cells?

- These are cells from which all other cells, with their **respective specialised functions**, are generated.
- The human body, under certain conditions, “divides” stem cells to either create new stem cells or cells with specific functions, such as blood cells, brain cells, bone cells, muscle cells, etc.
- There are two main categories of stem cells:
 - **Pluripotent stem cells:** With the ability to differentiate into all of the cells of the adult body.
 - **Adult stem cells:** These are tissue or organ-specific and regenerate to form cells only of that particular organ.

What is autism spectrum disorder ?

- Autism spectrum disorder is a neurological and developmental disorder that affects how people interact with others, communicate, learn, and behave.

Q1) What is the nervous system?

The nervous system is a complex and highly specialized system in the human body responsible for controlling and coordinating all physiological processes. It plays a crucial role in transmitting signals between different parts of the body, allowing us to perceive and respond to our environment, as well as regulate various bodily functions.

Source: [Court allows stem cell therapy for two autistic kids: What is this treatment? Can it be used to treat autism?](#)

Source: <https://vajiramandravi.com/current-affairs/stem-cell-therapy/>

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