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Stem cell-based regenerative therapy

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Significant advances in stem cell biology have helped us in expanding our understanding of development as well as the pathogenesis of the disease. Stem cells are special human cells that have the ability to self-renew and the potential to develop into the desired tissue, which can be used to replace damaged tissues or cells in the body. The utilisation of these cells in the treatment of any injury or disease without any risk of rejection is known as stem cell therapy. Researchers through many scientific and clinical findings have discovered the potential application of stem cells in treating many immunological and neurodegenerative diseases, genetic disorders, and blood-related conditions. Although there are few challenges involved in stem cell therapy, it is becoming prominent in the field of medicine; this therapy could be the future of medicine because of its regenerative and healing ability. There are many clinical applications of stem cells, such as stem cell transplants, the discovery of new drugs, tissue regeneration, etc. This new approach of stemcell-based regenerative medicines could help many patients suffering from serious medical conditions.

Keywords: Stem cell, Tissue, Regenerative medicines, Therapy, Drugs, ParkinsonÃ¢â‚¬â„¢s, AlzheimerÃ¢â‚¬â„¢s disease, Heart disease

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