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Stem cells in skin disease and skin development

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Stem cells especially mesenchymal stem cells promote wound healing, and can differentiate into multiple cell lineages, including keratinocytes. Therefore, stem cells can be used for the treatment of congenital or acquired skin defects. Because of their immunomodulatory properties, mesenchymal stem cells may be useful for the treatment of inflammatory and autoimmune skin diseases. In particular, it might be effective for the treatment of large vitiligo lesions as immunosuppressant or cultured grafts. It can also be a novel cell source for regenerating hair in the treatment of scarring alopecia and androgenic alopecia. It might also be an effective treatment for alopecia areata, which is associated with autoimmunity. The treatment-a whole-body graft of genetically modified stem cells-is the most ambitious attempt yet to treat a severe form of epidermolysis bullosa (EB), an often-fatal group of conditions that cause skin to blister and tear off at the slightest touch. Innovations Stem Cell Center treats lichen sclerosis with SVF stem cell therapy through IV and injection deployment. Once the stem cells have been deployed, they immediately go to work to heal damaged tissue. The stem cells repair damaged tissues just like they do in other areas of the body damaged by disease or injury- by regenerating cells to heal tissue and using growth factors that promote healing. Overall, this review highlights the great potential of stem cells like mesenchymal stem cells for the treatment of skin diseases in the near future.

Biography

Aseel is a 4th year medical student at Hashemite University from Jordan. She is interested in perusing her education in Dermatology.

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