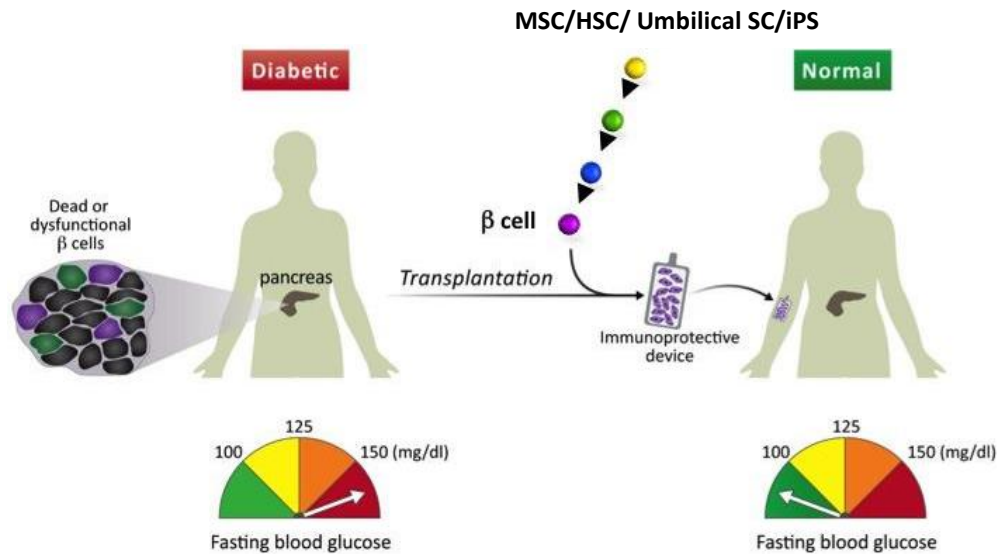


## Stem cell-based therapy in diabetes treatment

Hebatalla Sharaky, Amani Al Douri, Rawan Tarek

Under Supervision of

Dr. Hany Omar



### Highlights

- The stem cells hold a great promise for the treatment of diabetes mellitus.
- The use of embryonic stem cells for clinical application is restricted because of ethical concerns and tumorigenic propensity. Thus, areas of alternative forms of stem cell therapy, including bone marrow-derived stem cells, umbilical cord stem cells, and induced pluripotent stem cells, are under intense study.
- There is a need for the inclusion of the appropriate dose of the cells, the specific type of the cells, and the route of administration to be able to identify the best approach of stem cell therapy for human patients.
- Regardless of all the challenges, it has been proven that stem cell therapy has the potentials to improve millions of lives of diabetic patients significantly.