

## Stem Cells Future Therapy

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Stem cell is the precursor of all human vital organs and tissues according to the directions of growth.

Transplantation of residual stem cells e.g. limbal area were used to treat chronic or resistant corneal surface erosions, ulcerative or degenerative diseases.

A marked step in stem cell therapies had occurred after successful taking several types of stem cells from the Embryo. Embryonic stem cells gave a broad spectrum of replacement of degenerative, atrophied or even absent tissues without immunological obstacles.

We began to apply stem cell therapy to the retina, iris, cornea and even optic nerve degenerative or congenital or developmental diseases.

Retinitis pigmentosa was the first trials where we succeeded in getting healthy retinal tissues with healthy pigment epithelium by induction of embryonic stem cells beneath the old degenerated retina.

Trials began to replace the non-myelinated atrophied optic nerve fibers with healthy working nerve fibers by embryonic stem cell inoculation.

All cases of Coloboma of uveal tissues, aniridia or Albinism can be tried in future. All these partially successful therapy means exchange diseased tissues by new healthy newly grown stem cell tissues.

In future we hope to grow organs or complete parts of organs which we can transplant in the body like keratoplasty, iridoplasty, retinoplasty, lensplasty, scleroplasty or even optic nerveplasty. The stem cell Origen tissues are less immunological rejecting complications and long vital life after application.

It is a good chance to ophthalmology that all other branches of human and veteranian medical research's are in the same field of stem cell use in transplantation therapy; so symbiosis will make a push to this future promising topic of ophthalmology and medicine.

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