

PATIENT ID: I519

AGE: 27/ Male

COUNTRY: Poland

DIAGNOSIS: Hereditary Optic Nerve Atrophy (Leber's)

REASON FOR COMING FOR TREATMENT: The patient had tried all available conventional treatments in the best of eye hospitals in his country and elsewhere. The patient was diagnosed with progressive atrophy of the optic nerve (Leber's) (85% of the optic nerve damage with expanding central scotoma). He had gradual loss of vision in both eyes (Rt eye more left eye). Since last year there was loss of central vision. He had no history of trauma, drug history or family history.

TREATMENT: Mesenchymal Stem Cells derived from Wharton's Jelly of Human Umbilical cord. He received 7 injections of stem cells, 1 through Intravenous route in a dose of 1million cells/kg body weight, 2 injections of adequate cells through intrathecal route and 4 through retrobulbar route.

START DATE OF TREATMENT: 5th Sept 2013

BEFORE TREATMENT: The vision in his Rt eye was upto counting fingers till 2 m and in the Lt eye was 20/200 (P) (i.e. could only partially read the top line of Snellens chart). His Pupillary reaction was sluggish and fundus showed optic atrophy (pale optic nerve head) in both eyes, his colour vision was defective as out of 13 colour plates shown, he could read only 6 with the Rt eye and only 1 plate with the Lt eye.

AFTER TREATMENT: His vision In the Rt eye vision improved to 20/80 (1) in Snellens chart and N-12, the Lt eye vision improved to 20/50 (1) and N-6.

- Near Vision: Could read the 3rd last line (N-12) with the Rt Eye and the last line (N-6) with the Lt eye
- Optic Nerve: The colour of the optic nerve also improved from pallor to pink with only temporal pallor
- Colour vision: In the Rt Eye it was 5/13 (i.e. out of 13 plates he was able to read 5 plates) and in the Lt eye it was 13/13 (i.e. out of 13 plates he was able to read 13 plates).

Disclaimer: Stem cell therapy using tissue stem cells does not fall under the realm of accepted modalities of treatment. The results reaped from this therapy may differ from person to person.

**To protect identity names of patients not disclosed.*