

**Patient Id\*:** B354

**AGE:** 12/Female

**COUNTRY:** Poland

**DIAGNOSIS:** Retinopathy of Prematurity (ROP) with Hypothyroidism

The patient was born premature several weeks before full term. She was later diagnosed as visually impaired due to ROP since birth, the left eye more involved than the right eye. Microcornia was present in both eyes and microphthalmos was present in right eye.

**REASON FOR COMING FOR TREATMENT:** Her parents had tried all available conventional treatments in the best of eye hospitals in their country and elsewhere with no improvements. The family thought of trying emerging treatments, benefits of which she had seen in patient groups with similar condition. Expectation was to improve the quality of life.

**TREATMENT:** Mesenchymal Stem Cells derived from Wharton's Jelly of Human Umbilical cord. She received 6 injections of stem cells, 3 through Intravenous route in a dose of 1 million cells/kg body weight, 1 injection of adequate cells through Intrathecal route and 2 through Retro bulbar route.

**START DATE OF TREATMENT:** 25<sup>th</sup> Feb 2013

**BEFORE TREATMENT:** At admission, patient appreciated only perception of light and projection of rays in both eyes. There was horizontal nystagmus & corneal opacity in right eye. Pupillary reaction was present but not brisk.

#### **AFTER TREATMENT:**

A day before discharge, patient was documented to count fingers close to the face by right eye and was able to appreciate hand movements by left eye (these were not possible at admission). She could perceive more bright light and could see images in both the eyes. Her pupillary reaction became brisk few days before discharge suggesting that her optic pathway was handling more light signals after stem cell administrations. Improvement started soon after 2<sup>nd</sup> injection. Parents were very happy because they did not expect this to happen so soon and they were anticipating additional improvements only after returning home.

They promised to send the follow-up reports as scheduled.

*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.*