

**Patient ID\*:** I568

**AGE:** 2/ Male

**COUNTRY:** Italy

**DIAGNOSIS:** Cerebral Palsy with Spastic Quadriplegia, Mental Retardation, Seizure Disorder Microcephaly, Visual Impairment and Adenoid Hypertrophy.

Patient had this neurodevelopmental disorder since birth. According to his history, he did not cry at birth and was kept on ventilator support. Gradually, mental retardation and seizure disorder were noticed, which included paralysis of the whole body.

**REASON FOR COMING FOR TREATMENT:** His parents had tried all available conventional treatments in the best neurology and child hospitals in their country and elsewhere, but there was no improvement. His parents thought of trying new emerging treatments like stem cells therapy, benefits of which they had heard about from other patients suffering from similar disorders.

**TREATMENT:** Mesenchymal stem cells derived from Wharton's jelly, of which he received 6 injections of stem cells, 3 through the intravenous route in a dose of 1 million cells/ kg body weight and 3 injections of adequate cells through the intrathecal route.

**START DATE OF TREATMENT:** 9th Nov 2012

**BEFORE TREATMENT:** At admission, the child did not establish eye-to-eye contact. There was no visual response, no speech and partial neck holding. However, some spontaneous limb movements were there and tone of the limbs was on the higher side. Nystagmoid eye movements were present.

**AFTER TREATMENT:** At the time of discharge, the following improvements were noticed by his parents.

- Improvement in swallowing and drooling of saliva significantly reduced.
- There was an increase in spontaneous movements in the limbs (general activity improved).
- He was fixing the eyes more often than earlier.
- Now he was crying like a normal child, which was not seen earlier.
- Neck control had improved and he had a more stable posture of the trunk than before.

Further follow-up is underway; additional improvements are expected in the next few months.

*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.*