

Patient ID*: B129

AGE: 41/ Male

COUNTRY: India

DIAGNOSIS: Multiple sclerosis (MS, primary progressive type)

The patient, a qualified radiologist, was diagnosed with this condition in 2003 when he experienced weakness in his finger flexors of the right hand. The symptoms gradually progressed to stiffness and weakness in the left side of his body. Subsequently, the lower limbs were also involved. He was bed ridden with spasticity and weakness in almost all the muscle Groups.

REASON FOR COMING FOR TREATMENT: He had tried all available conventional treatments in the best of neurology hospitals in his country. It is known that primary progressive MS is the most resistant form of MS which does not respond to any conventional treatment. Being a qualified medical professional, he was aware of the safe option in therapy with mesenchymal stem cells (MSCs) as compared to steroids that have its own side effects when used for long term. He and his family had heard about efficacy of stem cells from other patients groups suffering from similar neurological disorders. There is level 4 & 5 evidence in peer reviewed journals for MSCs experimental therapy in MS.

TREATMENT: Mesenchymal Stem Cells derived from Wharton's Jelly of Human Umbilical cord. He received 5 injections of stem cells, 2 through Intravenous route in a dose of 1 million cells/Kg body weight and 3 injections of adequate cells through intrathecal route.

START DATE OF TREATMENT: 10th Dec 2012

BEFORE TREATMENT: Essentially bedridden with an expanded disability status scale (EDSS) score of 8.5 with spasticity and weakness in almost all groups of muscles. There was hesitancy and sense of incomplete evacuation of urinary bladder. Mild Ataxia with impairment in finger nose test. Excessive fatigue/tiredness all the time.

AFTER TREATMENT: At the time of discharge he was found to have complete reversal of bladder function. There was no hesitancy and sense of incomplete evacuation of bladder had disappeared. He felt less fatigue/tiredness now. He became more confident and energetic. Although there was no improvement in muscle power at the time of discharge we are awaiting further follow-up for additional improvements.

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.*