

Patient ID*: B335

AGE: 59/ Male

COUNTRY: Kuwait

DIAGNOSIS: Spinal muscular atrophy (SMA)

The patient had an adult onset of SMA which was provisionally diagnosed after excluding all other diseases with similar clinical presentation. His problem began around 2 years ago when his speed while walking had gradually slowed down. Subsequently, after 6 months, his right limb became stiff and his feet came out of slippers. He developed difficulty in walking on uneven ground. Gradually his left lower limb also got involved.

REASON FOR COMING FOR TREATMENT: The patient had tried all available conventional treatments in the best of neurology hospitals in his country but there was no improvement. His condition continued to deteriorate till admission. He wanted to try stem cells to improve his activities of daily living.

TREATMENT: Mesenchymal Stem Cells derived from Wharton's Jelly of Human Umbilical cord. He received 6 injections of stem cells, 3 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: 09st Jan 2013

BEFORE TREATMENT: In addition to his other symptoms, there was reduction in the bulk of his right side calf muscles along with thenar and hypothenar muscles of hands. He also felt twitching in all the muscles of body. Spasticity was present in both lower limbs.

AFTER TREATMENT: Following improvements were noted :

- Spasticity and stiffness in his legs reduced.
- Able to perform tandem walking which was not possible earlier.
- Walking ability became better and was able to walk for 1 km. The pace had also increased.
- Twitching in the muscles had reduced.
- Ability to stand from sitting position & balance also improved.
- Patient felt more energetic and full of enthusiasm and conceded that his visit to India had served its purpose.

Further follow-up is being gathered on his return 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.*