

BEIKE BIOTECHNOLOGY

Patient Case Study

Cerebral Palsy

Female, 13 years old, January - February 2012

Background

Age: 13 years old

Sex: Female

Nationality: Argentinean

Date of Admission: January 18, 2012

Date of Discharge: February 18, 2012

Treating Location: Shijiazhuang, China

Diagnosis on Admission: Cerebral Palsy

Condition On Admission

The patient had a development delay of movement on the right side of her body since birth. During physical assessment upon her admission to the hospital she was found to be fully alert to her surroundings and her memory and perceptual functions were also normal. The muscle strength, tone, and reflexes of her left sided limbs were normal. Muscle strength of her right limbs was 4/5 and her muscle tone on that side was affected by spasticity. Tendon reflexes on the right side were present.

Treatment Schedule

The patient received 7 umbilical cord blood-derived stem cell (UCBSC) packets by intravenous (IV) and intrathecal injections as per schedule below:

Injection #	Date	Cell Type	Delivery Method	Side Effects
1	January 22, 2012	UCBSC	IV	none reported
2	January 22, 2012	UCBSC	Intrathecal	Headache
3	February 1, 2012	UCBSC	IV	none reported
4	February 3, 2012	UCBSC	Intrathecal	none reported
5	February 6, 2012	UCBSC	Intrathecal	none reported
6	February 11, 2012	UCBSC	Intrathecal	none reported
7	February 15, 2012	UCBSC	IV	none reported

Condition On Discharge

The side effects noticed after the 2nd injection had resolved without any lasting effects by the end of the treatment. The doctors noted the patient's right arm movement had gained flexibility and her ability to control her trunk muscles had improved. The patient's parents commented that their daughter had made some good improvements at the hospital and they were hopeful for further developments in the near future.

Follow Up Information

Condition 6 months after treatment: The patient's family sent a small update about their daughter stating that she was able to speak with more fluidity and her right side was not as spastic as before the treatment.

Condition 14 months after treatment: The patient's family, in the 14 months since treatment, had observed big improvements in their daughter's quality of life and physical condition. Along with the physical improvements reported in the follow-up survey below, the family also mentioned that her intellectual and language abilities had also greatly improved.

Please see an excerpt from the patient's 14 month assessment below (submitted by the patient's parents):

Symptom	Assessment of Improvement
Trunk control	Significant improvement
Balance	Significant improvement
Movement in general	Significant improvement
Walking	Significant improvement
Standing up	Moderate improvements
Spasticity	Significant improvement
Overall strength	Significant improvement
Limb muscle strength	Significant improvement
Trunk muscle strength	Significant improvement
Range of movement	Significant improvement
Hand control	Significant improvement
Speech	Significant improvement
General mental ability	Significant improvement

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