

BEIKE BIOTECHNOLOGY

Patient Case Study

Optic Nerve Hypoplasia

Female, 16 months old, January - March 2011

Background

Age: 16 months old

Sex: Female

Nationality: Irish

Date of Admission: January 16, 2011

Date of Discharge: March 1, 2011

Treating Facility: Qingdao, China.

Diagnosis on Admission: Optic Nerve Hypoplasia (ONH)

Condition On Admission

The patient had bilateral vision deterioration and a development delay since she was 5 months old. On physical examination her eyeballs were normal and pupils were equal and reactive to light. She could recognize light and darkness. Nystagmus was present. She could not look at objects and mostly let her head hang down to the floor when sitting.

Treatment Schedule

The patient received 8 umbilical cord-derived mesenchymal stem cell (UCMSC) packets by intravenous (IV) injections as per the schedule below:

Injection #	Date	Cell Type	Delivery Method	Side Effects
1	January 19, 2011	UCMSC	IV	none reported
2	January 21, 2011	UCMSC	IV	none reported
3	January 24, 2011	UCMSC	IV	none reported
4	January 28, 2011	UCMSC	IV	none reported
5	February 11, 2011	UCMSC	IV	none reported
6	February 16, 2011	UCMSC	IV	none reported
7	February 21, 2011	UCMSC	IV	none reported
8	February 25, 2011	UCMSC	IV	none reported

Condition On Discharge

Stem cell treatment was completed without any adverse events or side effects. At the end of the treatment period the patient was able to reach out and grasp objects 50cm in front of her and track light with her eyes. There was also a decrease in the nystagmus.

Follow Up Information

Condition 1 month after treatment: One month after their daughter's treatment the parents completed a Beike follow-up survey and in this survey they reported that their daughter had made significant progress in her physical condition and that her quality of life had significantly improved. At the time they also felt that new improvements were still being made by their daughter.

Please see an excerpt from the patient's 12 month assessment below:

Symptom	Parents' Assessment of Improvement
Blindness	Significant improvement
Light perception	Significant improvement
Ability to see hand movement	Significant improvement
Vision in left eye	Significant improvement
Vision in right eye	Significant improvement
Night vision	Significant improvement
Ability to see things at a close distance	Significant improvement
Nystagmus	Significant improvement
Strabismus	Significant improvement

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