

# BEIKE BIOTECHNOLOGY

## Patient Case Study

### Post-Anoxic Encephalopathy

### Female, 23 years old, Jul - Aug 2019

#### Background

Age: 23 years old

Sex: Female

Nationality: French

Date of Admission: July 13, 2019

Date of Discharge: August 5, 2019

Treatment Location: Bangkok, Thailand

Diagnosis on Admission: Post-Anoxic Encephalopathy

#### Background and Condition On Admission

In October 2009, the patient had ventricular fibrillation with cardiopulmonary arrest. MRI scan examination after the accident confirmed the diagnosis of post-anoxic encephalopathy. A defibrillator was installed as a safety precaution. Physiotherapy and speech therapy have had their effects for 9 years, but progress was minimal.

Before starting stem cell treatment the patient had secondary dystonia. She had walking difficulties and needed assistance. Most of the time she was moving around in a wheelchair. Eating was difficult because of high tension in the jaws. Food supplements were given to her at night thanks to a gastric tube. She had a hard time speaking as well because of tensions in the oral zone.

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#### Treatment Schedule

Patient received 6 umbilical cord blood-derived stem cell (UCBSC) packets by intravenous (IV) injection and intrathecal way, as per the schedule below:

Number	Date	Cell Type	Delivery Method	Side Effects
1	July 16, 2019	UCBSC	IV	none reported
2	July 19, 2019	UCBSC	Intrathecal	none reported
3	July 22, 2019	UCBSC	Intrathecal	none reported
4	July 26, 2019	UCBSC	Intrathecal	none reported
5	July 30, 2019	UCBSC	Intrathecal	none reported
6	August 2, 2019	UCBSC	IV	none reported

In addition to the stem cell administrations, the patient also received a daily rehabilitation program that included physiotherapy, occupational therapy, aquatherapy, transcranial magnetic stimulation therapy, acupuncture and hyperbaric oxygen therapy.

## Follow Up Information

**1 month after treatment:** The patient's parents mention a moderate improvement in quality of life and improvements are continually being made. They mention that the patient is less stiff, she can hold her head better and is more motivated for her physiotherapy and occupational therapy sessions. Please see an excerpt from the patient parent's 1 month assessment below:

Symptom	Parents' Assessment of Improvement
Appetite	Small improvement
Balance	Moderate improvement
Breathing	Small improvement
Cooperation with others	Moderate improvement
Crawling	Moderate improvement
Drooling	Small improvement
Energy	Small improvement
Fine motor control	Moderate improvement
General mental ability	Small improvement
Hand control	Moderate improvement
Hyperactivity	Moderate improvement
Interaction with others	Moderate improvement
Limb muscle strength	Moderate improvement
Movement in general	Moderate improvement
Overall strength	Moderate improvement
Range of movement	Significant improvement
Reading	Small improvement
Seizures	Small improvement
Spasticity	Moderate improvement
Speech	Moderate improvement
Standing up	Significant improvement
Swallowing	Small improvement
Trunk control	Moderate improvement
Trunk muscle strength	Small improvement
Vision	Small improvement
Walking	Moderate improvement
Writing	Small improvement

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