

BEIKE BIOTECHNOLOGY

Patient Case Study

Autism

Male, 4 years, October - October 2019

Summary

Diagnosis	Sex	Age	Nationality
Autism	Male	4 years	Australian
Injections	Cell type	Admission date	Discharge date
8	UCMSC	October 7th 2019	October 24th 2019

Condition On Admission

The patient had problems with social communication and social interaction including deficits in non-verbal communication, deficits in developing age appropriate friendships/relationships and deficits in emotional reciprocity. The patient also has restricted, repetitive patterns of behaviour, interests or activities including:

- highly restricted fixated interests that are abnormal in intensity and focus,
- excessive adherence to routines, ritualised patterns of verbal or non-verbal behaviour or excessive resistance to change,
- stereotyped or repetitive speech, motor movements or use of objects
- Hyper- or hypo- reactivity to sensory input or unusual interest in sensory aspects of the environment.

Treatment Schedule

The patient received 8 umbilical cord mesenchymal stem cell (UCMSC) packets provided by intravenous (IV) way and intrathecal injections, as per the schedule below:

Number	Date	Cell Type	Delivery Method	Side Effects
1	2019-10-08	UCMSC	Intravenous Injection	none reported
2	2019-10-11	UCMSC	Intrathecal Injection & Intravenous Injection	none reported
3	2019-10-14	UCMSC	Intrathecal Injection & Intravenous Injection	none reported
4	2019-10-18	UCMSC	Intrathecal Injection & Intravenous Injection	none reported
5	2019-10-22	UCMSC	Intravenous Injection	none reported

Condition 3 months after treatment

The patient's mother mentioned the following: *"My life as a mum has improved significantly. Our son loves playing with adults, however not with his peers....so there has been small improvement in terms of his peers as he now acknowledges his brother and sometimes is playful with him. He also looks at what other children are now doing (he didn't care prior to stem cell treatment). Prior to the stem cell treatment it was hard for me to have him with his brother together in the same room, now he is fine with his brother in the same room, same space, even a bit of play. Finally, before the treatment he would only sit for three minutes (max) during therapy sessions, now he does table top activities for up to an hour (with few breaks in between), he wants to learn"* Please see an excerpt from the patient's 3 month assessment below:

Symptom	Parents' Assessment of Improvement
Appropriate facial expressions	Small improvements
Asking questions	No improvement
Aware of danger	Moderate improvement
Aware of environment	Significant improvement
Bed wetting	No improvement
Concentration	Moderate improvement
Cooperation with others	Moderate improvements
Dressing himself	No improvement
Expressing own needs	Small improvements
General conversation	No improvement

General mood	Significant improvement
Hyperactivity	Moderate improvement
Interaction with others	Small improvement
Interest in others	Moderate improvement
Lethargy	Moderate improvement
Over/under eating	Small improvement
Plays appropriately	Small improvement
Repetitive movements	Small improvement
Responding to commands	Significant improvement
Rigidity in routine	Small improvement
Sleep disturbance	Moderate improvement
Temper tantrums	Significant improvement
Uses eye contact	Significant improvement
Uses greetings	Moderate improvement