

Autism Spectrum Disorder (ASD) treatment experience. Clinical results.

EmCell has been performing therapy for ASD patients since 2011. We have done 1155 treatments for 715 patients with ASD from different countries since that time. The biggest number of patients were from the USA (119), Bulgaria (118), and Great Britain (88).

The main goal of treatment is to return a child to a normal life by improving his/her social adaptation and self-care abilities. Stem cells we use can stabilize the metabolism, contribute to detoxication (elimination of toxins out of the body), restoration of the damaged cells and tissues, and immune system boosting. All these improvements lead to the higher treatment efficacy.

We received 781 feedbacks after 1155 treatments. The parental subjective opinion, describing the child's general state and behavioral changes was the marker of the therapy effectiveness. The efficacy rate was 76.1% (594 positive feedbacks after 781 treatments). Within 2019 – 2025, the treatment efficiency increased to 86.4% (336 positive feedbacks after 389 treatments) thanks to the advancements of our treatment protocol.

Improvements reported	Percent of improvements
Cognitive improvements	71.5% (in 431 out of 603 cases)
Easier contact with a child (eye contact mainly)	57.4% (in 187 out of 326 cases)
Improved verbal skills: if a child is non-verbal, s/he is very likely to start making sounds, syllables and then pronounce words; if a child was verbal before the therapy, his/her vocabulary may increase	54.4% (in 231 out of 425 cases)
Decrease of hyperactivity	84.8% (in 201 out of 237 cases)
Better social adaptation	49.7% (in 260 out of 523 cases)
Reduction of clinical manifestations due to perinatal problems	91.7% (in 121 out of 132 cases)
Better gastrointestinal functioning	88.8% (in 143 out of 161 cases)
Boosted immune system	85.3% (in 342 out of 401 cases)

There are no objective methods, except for the scales and tests, for evaluation of the improvements in the autistic kids.

Therefore, within the last 7 years (2019 – 2025), in addition to the parental objective opinion, we also began considering the information from the Autism Treatment Evaluation Checklist scale (ATEC) in order to objectively evaluate the child's condition and overall treatment effectiveness.

We asked parents to complete the ATEC scale for their children before and after the stem cell treatment. The results presented in the table are compiled based on the data from ATEC scales from 172 kids. Their parents completed this form at different time ranges (before the treatment and 1 to 13 months after the stem cell therapy) within 2019 – 2025.

Improvements reported	Percent of improvements, N=172
Speech/Language Communication	81.4% (140 revealed improvements)
Sociability	69.2% (119 revealed improvements)
Sensory/ Cognitive Awareness	63.4% (109 revealed improvements)
Health/Physical/Behavior	86.6% (149 revealed improvements)
Improvements in any sphere	92.4% (159 revealed improvements)

According to our experience in 1155 treatments, the younger ASD patient is the better results can be achieved after the treatment. Some patients require follow up treatments to maintain the effects after the primary course of the therapy.

In order to evaluate the treatment safety, the laboratory examinations and clinical assessment of the adverse effects are performed. Our treatment is overall safe and well tolerated. No immediate or long-term side effects or apparent immunological adverse reactions have been noted during the period of observation in ASD patients after the stem cell treatment at EmCell.