

Trial record **2 of 4** for: Autism and cord blood
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Safety and Efficacy of Stem Cell Therapy in Patients With Autism

This study has been completed.

Sponsor:

Shenzhen Beike Bio-Technology Co., Ltd.

Collaborators:

Shandong Jiaotong Hospital

Association for the Handicapped Of Jinan

Information provided by (Responsible Party):

Shenzhen Beike Bio-Technology Co., Ltd.

ClinicalTrials.gov Identifier:

NCT01343511

First received: April 26, 2011

Last updated: October 13, 2011

Last verified: October 2011

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► Purpose

Autism is one of those disorders in **Autism** spectrum disorders (ASD), which characterized by social interaction abnormalities, impaired verbal and non-verbal communication, and repetitive, obsessive behavior, while the therapeutic effect of current treatments remains limited progress. Neural hypoperfusion and immune deregulation are the two key pathologies associated with **Autism**. Human umbilical **cord** mesenchymal stem cells (hUC-MSCs) and human **cord blood** mononuclear cells (hCB-MNCs) have been shown to have the ability to modulate the immune response and enhance angiogenesis, suggesting the novel and promising therapeutic strategy. In this study, the safety and efficacy of hUC-MSCs and hCB-MNCs transplantation will be evaluated in patients with **Autism**.

<u>Condition</u>	<u>Intervention</u>	<u>Phase</u>
Autism	Biological: human cord blood mononuclear cells Biological: human cord blood mononuclear cells and human umbilical cord mesenchymal stem cells	Phase 1 Phase 2

Study Type: Interventional

Study Design: Allocation: Non-Randomized

Endpoint Classification: Safety/Efficacy Study

Intervention Model: Parallel Assignment

Masking: Open Label

Primary Purpose: Treatment

Official Title: Phase I/II Study of Stem Cell Therapy in Patients With **Autism**

Resource links provided by NLM:

[MedlinePlus](#) related topics: [Autism](#) [Rehabilitation](#)

[U.S. FDA Resources](#)

Further study details as provided by Shenzhen Beike Bio-Technology Co., Ltd.:

Primary Outcome Measures:

- Childhood **Autism** Rating Scale , CARS [Time Frame: 6 months after treatment] [Designated as safety issue: No]
- Clinical Global Impression Scale , CGI [Time Frame: 6 months after treatment] [Designated as safety issue: No]

Secondary Outcome Measures:

- Aberrant Behavior Checklist , ABC [Time Frame: 6 months after treatment] [Designated as safety issue: No]

- Adverse Event and Serious Adverse Event [Time Frame: 6 months after treatment] [Designated as safety issue: Yes]

Enrollment: 37
 Study Start Date: March 2009
 Study Completion Date: May 2011
 Primary Completion Date: June 2010 (Final data collection date for primary outcome measure)

<u>Arms</u>	<u>Assigned Interventions</u>
Experimental: Rehabilitation plus hCB-MNCs treatment Participants will be given rehabilitation therapy plus human cord blood mononuclear cells transplantation with a 6 months follow-up.	Biological: human cord blood mononuclear cells Participants will be given rehabilitation therapy plus hCB-MNCs transplantation. Other Name: Group 1
Experimental: Rehabilitation plus hCB-MNCs and hUC-MSCs therapy Participants will be given rehabilitation therapy plus combination of hCB-MNCs together with hUC-MSCs transplantation with a 6 months follow-up.	Biological: human cord blood mononuclear cells and human umbilical cord mesenchymal stem cells Participants will be given rehabilitation therapy plus and hCB-MNCs and hUC-MSCs transplantation. Other Name: Group 2

Detailed Description:

To investigate the safety and efficacy of human cord blood mononuclear cells and human umbilical cord mesenchymal stem cells transplantation in patients of Autism.

► Eligibility

Ages Eligible for Study: 3 Years to 12 Years

Genders Eligible for Study: Both

Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

- Children between the ages of 3 and 12 years.
- DSM-IV diagnosis of Autistic Disorder.
- Total score of CARS \geq 30.
- Parents or legal guardian willing to sign the ICF.

Exclusion Criteria:

- Any history of hypersensitivity to serum products, or other known drug and food allergy.
- History of prior or current DSM-IV psychotic disorder (e.g., schizophrenia, bipolar disorder, other psychosis), Pervasive Developmental Disorder not otherwise specified (PDD NOS), Asperger's, or Rett's.
- History of Epileptic seizure activity in the past 6 months.
- Autism caused by seizure disorders (active), cerebrovascular disease or brain trauma.
- The global autism ratings are assessed as being absent, minimal or mild.
- Existing moderate or severe extrapyramidal symptoms (EPS) or history of tardive dyskinesia.
- Subjects who have displayed significant self-injurious behavior (children who have caused visible harm to themselves).
- HIV+
- Acute and chronic hepatitis.
- Autoimmune disease, e.g. lupus erythematosus, multiple sclerosis.
- Severe pulmonary and hematological disease, malignancy or hypo-immunity.
- Currently undertaking other treatment that may affect the safety/efficacy of stem cells.
- Enrollment in other trials in the last 3 months.
- Other criteria the investigator consider improper for inclusion.

► Contacts and Locations

Please refer to this study by its ClinicalTrials.gov identifier: NCT01343511

Locations**China, Shandong**

Shandong Jiaotong Hospital
Jinan, Shandong, China, 250031

Sponsors and Collaborators

Shenzhen Beike Bio-Technology Co., Ltd.
Shandong Jiaotong Hospital
Association for the Handicapped Of Jinan

Investigators

Principal Investigator: Yongtao Lv Shandong Jiaotong Hospital

 **More Information**

No publications provided

Responsible Party: Shenzhen Beike Bio-Technology Co., Ltd.
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Keywords provided by Shenzhen Beike Bio-Technology Co., Ltd.:

Autism

human **cord blood** mononuclear cells
human umbilical **cord** mesenchymal stem cells

Additional relevant MeSH terms:

Autistic Disorder
Child Development Disorders, Pervasive
Mental Disorders Diagnosed in Childhood
Mental Disorders

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