Beike-Coordinated Patient Case Study
Optic Nerve Hypoplasia
Female, 15 years old, July - August 2008

This case study has been produced by Beike Biotechnology in association with the doctors and medical staff of Qingdao Chengyang People’s Hospital. Information concerning the provided treatment and patient condition upon admission and discharge has been distributed to Beike by the treating facility’s medical staff. All follow-up data has been provided directly to Beike by the patient and/or patient’s guardians. For additional information about treatment, please send an inquiry at www.stemcellschina.com

Background
Age: 15 years old
Sex: Female
Nationality: American
Date of Admission: July 6, 2008
Date of Discharge: August 11, 2008
Treating Facility: Qingdao Chengyang People’s Hospital, Qingdao, China
Diagnosis on Admission: Optic Nerve Hypoplasia
Stem Cell Type: Beike-produced umbilical cord blood-derived stem cells (UCBSC)

Treatment Schedule
Patient received 7 Beike-produced umbilical cord blood-derived stem cell (UCBSC) packets by intravenous (IV) injection and lumbar puncture (LP), as per schedule below:

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Cell Type</th>
<th>Delivery Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>July 7, 2008</td>
<td>UCBSC</td>
<td>IV</td>
</tr>
<tr>
<td>2</td>
<td>July 11, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
<tr>
<td>3</td>
<td>July 16, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
<tr>
<td>4</td>
<td>July 21, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
<tr>
<td>5</td>
<td>July 28, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
<tr>
<td>6</td>
<td>August 1, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
<tr>
<td>7</td>
<td>August 6, 2008</td>
<td>UCBSC</td>
<td>LP</td>
</tr>
</tbody>
</table>
Follow-Up Report

Below are comments from both the patient’s local doctor and the patient herself.

**September 2008 - 1 month after treatment**

Doctor Comments: Visual acuity in right eye was 20/200 but the left eye was unmeasurable. VEP study indicated some light was getting through to the right anterior visual system.

Patient Comments: Patient reported she was able to watch television from a greater distance than before and could see much more detail.

**December 2008 - 5 months after treatment**

Doctor’s Comments. Visual acuity in left eye was 20/70. Doctor wrote, “she continues with some gradual improvement in her vision.”

Patient Comments: Patient reported she was able to now tell if it was snowing outside, whereas before treatment she could only see shadows.

**January 2009 - 6 months after treatment**

Doctor’s Comments: Visual Evoked Response (VEP) showed modest improvements in the right anterior visual response.

**May 2009 - VEP Study 10 months after treatment**

Doctor’s Comments: VEP study showed improvement since last test. Local specialist documented improvements as impressive.

Patient Comments: Patient now has her drivers permit with visual restrictions only.

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