Increased Risk of ADHD Among Children With Bilateral Congenital Cataracts

Brief Summary:
In this study, the investigators conducted a cross-sectional, face-to-face investigation to evaluate the behavioral and psychological disorders and the risk of ADHD among children with bilateral congenital cataracts using the Conners'Parent Rating Scale (CPRS) questionnaire, an assessment tool for screening ADHD that obtains parental reports of childhood behavioral problems in research and clinical settings.15-17 Age-matched children with normal vision and the Chinese urban norm were used as controls.

Condition or disease

<table>
<thead>
<tr>
<th>Condition or disease</th>
<th>Other: Psychological and Behavioral Problems</th>
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<tbody>
<tr>
<td>Childhood Cataract</td>
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Study Design

Study Type: Observational
Actual Enrollment: 262 participants
Observational Model: Other
Time Perspective: Cross-Sectional
Official Title: Increased Risk of Attention Deficit Hyperactivity Disorder Among Children With Bilateral Congenital Cataracts
Actual Study Start Date: July 1, 2016
Actual Primary Completion Date: December 1, 2016
CC children were registered members of the Childhood Cataract Program of the Chinese Ministry of Health (CCPMOH). All of them were diagnosed with CC by two experienced pediatric ophthalmologists based on a comprehensive evaluation of the onset age (within one year after birth), morphological features of lens opacity, family history, and detailed medical records.

NV children were recruited from the Optometry Department of the ZOC as the control group. NV was defined as BCVA ≥0.3 (log MAR) in children between 3-5 years old or BCVA ≥0.15 (log MAR) in children older than 5 years. Children with strabismus and high refractive error (myopia or hyperopia: >6.0 Diopters; astigmatism: >3.0 Diopters) were excluded from NV group.

Primary Outcome Measures:
1. risk of ADHD [Time Frame: 2016.7-12]

Scores of CRRS-48 between two groups were compared.
Accepts Healthy Volunteers: Yes
Sampling Method: Non-Probability Sample

**Study Population**

Hospital-based

**Criteria**

Inclusion Criteria:
- CC children and NV children aged 3-8 years presenting to the Zhognshan Ophthalmic Center between July and December 2016.

Exclusion Criteria:
- Patients complicated with systemic manifestations, such as Lowe syndrome, Marfan syndrome, and Down syndrome, were excluded.

**Contacts and Locations**

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**Information from the National Library of Medicine**

To learn more about this study, you or your doctor may contact the study research staff using the contact information provided by the sponsor.

Please refer to this study by its ClinicalTrials.gov identifier (NCT number): NCT03692728

**Locations**

**China, Guangdong**

Zhognshan Ophthalmic Center, Sun Yat-sen University
Guangzhou, Guangdong, China, 510060

**Sponsors and Collaborators**
Sun Yat-sen University

**More Information**

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Studies a U.S. FDA-regulated Drug Product: No
Studies a U.S. FDA-regulated Device Product: No

Keywords provided by Haotian Lin, Sun Yat-sen University:
congenital cataract
attention deficit hyperactivity disorder
Conners'Parent Rating Scale-48

Additional relevant MeSH terms:
Cataract
Attention Deficit Disorder with Hyperactivity
Lens Diseases
Eye Diseases

Attention Deficit and Disruptive Behavior Disorders
Neurodevelopmental Disorders
Mental Disorders