Depression in Children with Specific Learning Disabilities

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Summary

Background: About 5% of adolescents and children in the general population suffer from depression at some point.

Objective: To compare symptoms of depression among children with and without learning disabilities.

Methods: 51 children with learning disorders and 50 children with a typical school performance, aged between 8 and 14 years old, were studied. The investigation of the depression signs was performed by applying the Child Depression Inventory.

Results: Children diagnosed with learning disorders have a higher frequency of depressive symptoms compared to children without learning difficulties.

Conclusion: In this study it was found that children diagnosed with specific learning disorders have higher frequency of depressive symptoms compared to children without learning difficulties.

Keywords: Depression- Learning Disorder- children.

 научية: 5% من الأطفال والمبتدئين في تعلم المهارات والأكاديمية التي تعمل في قراءة الكلمات، وهم معنًى ما يقرأون وصعوبة في التهجي، كما يعتبر عقد القدرة على التفكير والقراءة من أهم مشاكل الدراسة التي ترتبط بالاضطرابات بالقلق والاكتئاب.

الهدف: دراسة الاضطرابات بالاكتئاب في الأطفال الذين يعانون من صعوبات تعلم

منهجية البحث: دراسة الحالات والشكاوى، وتم اختيار الأطفال الذين يعانون من صعوبات تعلم من العيادات الخارجية التابعة لكلية الدراسات العليا للطفلة، بالإضافة إلى 50 من الأطفال الأصحاء كمجموعة مامتة. وتم عمل ما يلي تجميع البيانات: التاريخ العام والمحاضر المنفي- المقابلة النفسية السريعة- اختبار الاكتئاب باستخدام CDI

النتيجة: قد وجد أن الأطفال الذين يعانون من الاكتئاب يدرجة أعلى من الأطفال المعنيين.

الكلمات الرئيسية: الأطفال- مرض السكري- الاكتئاب- التعلم.
**Introduction:**

For the Diagnostic and Statistical Manual of Mental Disorders (DSM-5), the term Specific Learning Disorder (LDs) is defined as difficulties in learning and use of academic skills, characterized by reading words of inaccurate or slow manner and effort, difficulty understanding the meaning of what is read, difficulties in spelling, difficulties with written expression, numerical facts, difficulties to master the number sense or calculation and difficulties in reasoning (Siqueira et al., 2011). The term disorder learning will be adopted to refer to children with specific learning disorder (LDs) according to DSM-5 criteria (Siqueira et al., 2011).

About 5% of adolescents and children in the general population suffer from depression at some point. Students under stress, who have had bad experiences or have learning, attention, conduct or anxiety disorders, have great risk for depression, but the diagnosis of childhood depression is still difficult to perform due to its functional variables and similarities with other childhood psychopathology (American Psychiatry Association, 2013).

**Aim of the Study:**

The objective was to compare symptoms of depression among children with and without learning disabilities.

**Methodology:**

This case control study included 51 children diagnosed with learning disorder by an interdisciplinary team at the Clinic of clinics at center of special needs, Ain Shams University were recruited and formed the group I (GI), and another 50 children without any learning problem as controls.

Inclusion Criteria:

1. Age: (8-14) years.
2. Gender: Boys and Girls.
3. IQ: average IQ (90-110) Having reading or writing or mathematical difficulties according to DSM-5 criteria.

For all children Children's Depression Inventory- CDI was done (Gouveia et al., 1995).

**Results:**

Number of children who had +ve family history 29.7% (Frequency 30) while children who had -ve family history 70.3% (Frequency 71).

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<thead>
<tr>
<th>Family history in study and control group</th>
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Table (1) showed a statistically high significant difference between control and study groups as regard to family history (p = 0.003).

<table>
<thead>
<tr>
<th>Table (2) Comparison between cases and controls as regards depression inventory scale</th>
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<tr>
<td>Group</td>
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<tr>
<td>CDI study Gr</td>
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<td>Control Gr</td>
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Table (2) shows a statistically significant difference between control and study groups as regard to depression (P=0.029) but there was statistically non significant difference between control and study groups as regard to anxiety (P=0.412).

Table (3) shows that there is no statistically significant difference between two groups as regard to gender. The boys were 66% (N=33) and girls were 34% (N=17) in control group while boys were 76.5% (N= 39) and girls were 23.5% (N= 12) in study group.

<table>
<thead>
<tr>
<th>Gender</th>
<th>Group</th>
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<tr>
<td></td>
<td>Count</td>
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<tr>
<td>Boys</td>
<td>Control Gr</td>
<td>53</td>
<td>39</td>
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<tr>
<td>Girls</td>
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<tr>
<td>% within- group. 0</td>
<td>66.0%</td>
<td>76.5%</td>
<td>71.3%</td>
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<tr>
<td>Count</td>
<td>17</td>
<td>12</td>
<td>29</td>
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<tr>
<td>% within- group. 0</td>
<td>34.0%</td>
<td>23.5%</td>
<td>28.7%</td>
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<td>Count</td>
<td>50</td>
<td>51</td>
<td>101</td>
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<tr>
<td>% within- group. 0</td>
<td>100.0%</td>
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**Discussion:**

The results of our study demonstrate that children with poor school performance have a larger number of predictive depression signals, consistent with other studies in the literature (Enemo et al., 2006).

A study that evaluated the prevalence of depressive symptoms using CDI instrument in 53 children with learning disorders, with ages ranging from 8 to 11 years, revealed that 19 children (35.85%) exceeded the cutoff score for the presence of these symptoms. This data indicates that children may have depressive disorders (Lima et al., 2011).

A Mexican study (Gallegos et al., 2012) compared the severity and the risk for depression in 130 children with learning disorders (LDs) and 130 with normal development, being the first study to explore the emotional difficulties of Mexican children with a learning disorder (LD). In the study the CDI inventory was used, and a higher percentage of children with a learning disorder at risk for depression was observed, compared with children with typical development (32% vs. 18%). The results showed that Mexican children with learning disorder (LD) have higher risk of depression compared to children with typical development and highlight possible comorbidity between depression and learning problems, the need to control early effective interventions and identification for emotional support to student with a learning disorder.

A study (Mammarella et al., 2014) that aimed to investigate different profiles of students with learning problems (Nonverbal learning disorder, reading disorder) and with a typical development, ages eight up to 11, showed that children with reading disorders had worse depression symptoms or signs than those with non-verbal learning disabilities and typical development.

**Conclusion:**

In this study it was found that children diagnosed with specific learning disorders have higher frequency of depressive symptoms compared to children without learning difficulties.

**References:**

1. American Psychiatry Association. *Diagnostic and Statistical Manual*