PSYCHOLOGICAL CHANGES IN YOUTH WITH DIABETES: COMPARISON BETWEEN PREADOLESCENTS AND ADOLESCENTS


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BACKGROUND
The course of type one diabetic disease (T1DM) varies according to the period of life and in response to various external or internal factors. Adolescence is an evolutionary phase that involves important developmental changes and identity construction. Furthermore, adolescence involves the extension of resources, relationships and personal fulfillment. T1DM and its management, especially in this life period, can lead to psychological distress, awareness to limitation and impact on self-redefinition.

AIM
Aim of study is to investigate the differences in psychological aspects between preadolescents and adolescents with diabetes.

METHOD
We conducted a retrospective analysis on psychological data that emerged within the school camps conducted in recent years (2013-2019) with preadolescents (PA: 12-14 yrs) and adolescents (A: 15-17 yrs). Descriptive and ANOVA statistical analyses were conducted using SPSS program.

RESULTS
- Psychological scores were within normal range but with wide dispersion and vary to age (table 2).
- Percentages of clinical cases in significant issues (graph 1).
- Eating disordered behaviors scores aren't statistically significant, but with an occurrence of clinical cases equal to 18% (PA) and 23% (A).

CONCLUSIONS
Our data highlighted a vulnerability in the areas investigated, with variations according to the age and developmental needs of the young patients.
For the younger ones, the most complex aspect seems to be the adaptation to diabetes, probably due to their level of self-management skills and psycho-developmental challenges.
Teens seem to be more aware of T1DM management, while their difficulties are more focused on mood and self-esteem. These aspects could be linked to the need to integrate the chronic condition in the vision of themselves and in the process of building identity.
Data about eating disorders showed a frequency in line with literature but must be deepened in a larger group and with specific instrument.
Camps can improve psychological processing of the DMT1 condition giving the opportunity for peers of sharing the same daily life experience, decreasing sense of diversity.
Our study underlines the necessity to detect young patients at risk according to age and developmental needs.
The data must be studied in a larger sample, also involving those who do not attend the camps but can be a starting point for planning interventions differentiated by age.

REFERENCES
- Markowitz J. T. et al. Youth-Perceived Burden of Type 1 Diabetes: Problem Areas in Diabetes Survey-Pediatric Version (PAID-Peds). J Diabetes Technol. 2015; Apr 24.9

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Table 1 – Psychological Tests administrated to PA and A

<table>
<thead>
<tr>
<th>N. PA</th>
<th>N. A</th>
<th>Psychological issue</th>
<th>Instruments</th>
</tr>
</thead>
<tbody>
<tr>
<td>213</td>
<td>209</td>
<td>Diabetes related distress</td>
<td>PAID-Peds (Problem Areas in Diabetes Survey Pediatric Version) cut off ±40 pathological</td>
</tr>
<tr>
<td>158</td>
<td>154</td>
<td>Self Esteem</td>
<td>Culture-Free Self Esteem Inventory for Children Form - cut off±24 problematic</td>
</tr>
<tr>
<td>205</td>
<td>211</td>
<td>Mood</td>
<td>WHO 5 (World Health Organization Five Well-Being Index) cut off ±50 defected mood - &lt; 28 depression</td>
</tr>
<tr>
<td>166</td>
<td>167</td>
<td>Anxiety</td>
<td>RCMAS-2 (Revised Children’s Manifest Anxiety Scale-Second Edition) cut off ±60 pathological</td>
</tr>
<tr>
<td>124</td>
<td>124</td>
<td>Disorder Eating Behavior</td>
<td>DEP-R (The Diabetes Eating Problem Survey – Revised) cut off ±20 pathological</td>
</tr>
</tbody>
</table>

Table 2 – Highlighted the group with greater vulnerability.

<table>
<thead>
<tr>
<th>PA</th>
<th>Psychological issue</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.0±20.08</td>
<td>Diabetes related distress p=0.03</td>
<td>23.2±15.81</td>
</tr>
<tr>
<td>28.86±6.12</td>
<td>Self-Esteem p=0.0002</td>
<td>25.9±7.41</td>
</tr>
<tr>
<td>68.33±18.38</td>
<td>Mood p=0.0001</td>
<td>59.3±19.40</td>
</tr>
<tr>
<td>49.53±6.99</td>
<td>Anxiety p.m.s.</td>
<td>48.9±8.24</td>
</tr>
<tr>
<td>50.91±8.99*</td>
<td>Disordered Eating Behavior p.m.s.</td>
<td>47.7±6.39*</td>
</tr>
<tr>
<td>12.03±8.84</td>
<td></td>
<td>14.02±8.12</td>
</tr>
</tbody>
</table>

Graph 1 – Percentages of clinical cases in significant issues