

white matter microstructure in children with SPD. Despite these findings SPD need to be further studied.

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EW0327

Altered puberty timing in recent decades: Implications for adolescence-onset conduct disorder

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Introduction In industrialised countries, the age of puberty onset has substantially diminished over the last 150 years. Several factors, like improved nutrition and health care have contributed to this, but there are concerns about other factors, like obesity, levels of divorce and chemicals. There is an association between early puberty and externalizing disorders in both girls and boys.

Aim To describe trends in advanced puberty timing and adolescence-onset conduct disorder (CD), analyse if an association exists between both and evaluate which measures can be taken to prevent youth from antisocial activities during adolescence.

Method A systematic literature review using Medline, Embase and Psycinfo Databases.

Results Family break-up and increased stress are risk factors for adolescence-onset conduct disorder. Obesity is associated with low SES families, so prevention campaigns giving advice on healthy nutrition may be beneficial. On the general level, there is no clear positive correlation between adolescence-onset CD and early puberty over the last decades as numbers of CD are decreasing.

Conclusion Potential mental health gains can be obtained to focus on children with multiple risk factors for early puberty. More research is needed to assess, which interventions (diet, advice on body changes, social expectations, etc.) are most useful.

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EW0328

Onset paranoid symptoms in depressive and non-depressive middle adolescence sample: School-based preliminary study from Croatia

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Introduction There is a lack of epidemiological evidence on the prevalence and incidence of mental health disorders in adolescence in Croatia. Depressive disorder and paranoid symptoms have been demonstrated to be closely related in adult community samples or patients with adult depression. The present study used a cross-sectional design to evaluate a sample of Croatian adolescents.

Objectives Examine the prevalence of paranoid symptoms in adolescents attending grammar school as a preliminary study of clinical characteristic of depression in adolescence.

Methods A sample of 450 individuals, average age 15.7 (SD=0.45); female 232 (51.6%), male 218 (48.4%). The screening was followed by the use of a structured psychiatric interview (HAMD-21), which was administered to confirm the presence or absence of depression disorder. Item paranoid symptoms were administered to evaluate the level OD symptoms (0–none;

1–suspicious; 2–ideas of reference; 3–delusions of reference and persecutions).

Results A total of 450 participants were screened, using HAMD-21, paranoid symptoms occurred (44.9%). Depressed adolescents: moderate, severe and very severe, defined as more than 14 points in HAMD-21 presented paranoid symptoms 68.1%, and non-depressed 32.2%.

Conclusion The depressive group displayed more frequent and intense paranoid symptoms than the control group ($P < 0.001$). Among non-depressed the incidence of paranoid symptoms is a surprisingly high. This could be the consequences of the war in Croatia, transition, as well as the influence of social networks on adolescent communication. This requires future studies.

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EW0329

Relationship between early maladaptive schemes and traumatic childhood experiences with suicidal behavior in adults

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Exposure to traumatic events in childhood is associated with suicidal behavior in adulthood, in the form of ideas, attempted or completed suicide. The abuse causes impaired cognitive schemes in the attachment figure, abandonment, mistrust and vulnerability to damage. The literature has demonstrated the dose–response relationship between a traumatic event in childhood and the development of mental disorders and the possibility of suicidal behavior. In addition, abuse is transmitted through the generations along with another factor of suicidal vulnerability (family history of suicide). Abuse in childhood is associated with depression, anxiety, antisocial behavior or substance. In fact, in investigations is suggested the vulnerability to any psychopathological disease. A history of suicidal behavior increases the risk for these children. Since child abuse increases suicidal behavior, we can find families in which coexists history of suicidal behavior and child abuse. The high prevalence of abuse and vulnerability neurodevelopmental leads us to consider a plan of action for this population. Rejection and/or contempt suffered in a developing brain might be related to subsequent alterations in emotional regulation or impulsivity. For these associations should conduct a more thorough screening in children's consultations to address this issue. It is very important to approach about cognitive schemes that subsequently repeated dysfunctional acts. Impulsive or unstable behavior could be reduced. This would decrease the consequences that these children have in adulthood.

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EW0330

Executive functioning impairments in adolescents with early diagnosis of obsessive compulsive disorder

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Despite the neuropsychology literature provide reliable evidence of impaired executive functions in obsessive-compulsive disorder (OCD), it has not been determined whether these deficits are prior to onset of the disorder or they begin to appear as consequence. To investigate whether recent onset of OCD in ado-

lescence is characterized by executive functioning difficulties in behavioral inhibition, attentional flexibility, and decision-making. Executive functions were compared in adolescents with recent (past year) appearance of OCD symptoms ($n=40$) and control group ($n=40$). Three computerized tests within the CANTAB battery were completed by all subjects (the Affective Go/No Go task, the Intra-Dimensional, Extra-Dimensional Set-Shifting task, and the Decision-Making task). Using one-way ANOVA showed that compared with control group, the OCD adolescents displayed a bias towards negative stimuli with less errors on sad and hopeless words on the Affective Go/No Go task. They also made faster decisions while they bet more of their available points compared to controls, in the Decision-Making task. Adolescents with recent OCD diagnosis (less than one year) showed greater attention towards sad and hopeless stimuli and more impulsive behavior when making decisions. However, they were able to switch attentional set to neutral stimuli. These findings suggest that executive functioning impairments can characterize adolescence OCD from early beginning of the disorder.

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EW0331

Comparison of learning disabilities in reading, math, spelling and academic progress of children with attention deficit disorder with hyperactivity and normal children at elementary schools

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Learning disabilities and attention deficit disorder with hyperactivity of important issues should be considered in elementary school students. The aim of this study was comparison learning disorders, reading, spelling, math and achievement among students in elementary school grades in Bandar Abbas. For this purpose, 384 students were randomly selected. Instruments for gathering data were:

- k-Math test;
- test spelling disorder (Fallahchai test);
- reading test (Baezat test);
- CSI-4.

Factor analysis of variance test was used to analyze of data. The results showed that in the scale of dyslexia, there were more disorders in the children with attention deficit disorder in reading errors, comprehension and reading speed than normal group. In mathematical disorder scale, there were significant difference between the two groups of children with attention deficit disorder with hyperactivity and normal children. Then, the children with attention deficit disorder had higher disorders in operations math, mathematical concepts, mathematical applications, and general score math. The scale of the problem dictates there were significant difference between the two groups of children with attention deficit disorder with hyperactivity and normal children. Then, the children with attention deficit disorder had higher disorders in problem dictates. In academic achievement, the children with attention deficit disorder had lower mean in academic achievement. Finally, the results showed that age, gender, and their interaction had no significant impact on learning disorders, based on attention deficit disorder and normal groups.

Keywords Attention deficit hyperactivity with mathematics disorder; Reading disorder; Dictates disorder; Academic achievement

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EW0332

Analysis of applied behavior treatment for children with autism spectrum disorder

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According to Boesch et al., people with autism spectrum disorder (ASD) are at a greater risk of developing harmful behaviors, such as self-aggression and other challenging behaviors than individuals with normal development do not exhibit. The method of approach that is supported by scientific evidence for interventional procedures is applied behavior analysis, reported by Carr et al. [1].

Aim In order to provide evidence-based intervention for autism from this approach in practice.

Method In reference to a longitudinal approach, an intervention program was designed and implemented to serve 40 children with ASD, who were treated for one (1) year at the Victory BRT Institute in Florida, US. The behaviors targeted for reduction (excess behavioral), are the following: physical aggression, self-aggression and non-compliance. The program began with a baseline (12 consecutive days) with observations at home and others different natural contexts. The last three (3) months of the year consisted of monthly follow-up sessions to monitor the treatment implemented. The results were analyzed by repeated measures, ANOVA Sig ($P=0.003$) ($F=8$). Analyses show that the critical level associated with the effect of time-content interaction is strong, so the treatment generated a positive effect by reducing the behaviors targeted in time.

Conclusions These results provide evidence that interventions from applied behavior analysis are effective.

Keywords Autism spectrum disorder; Applied behavioral analysis; Child; Adolescent

Disclosure of interest The authors have not supplied their declaration of competing interest.

Reference

- [1] Carr ME, Moore DW, Anderson A. Self-management interventions on students with autism a meta-analysis of single-subject research. *Exceptional Children* 2014.

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EW0333

Pharmacogenomics and efficacy of risperidone long-term treatment in Thai autistic children and adolescence

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