

trated by actigraphy. Studies investigating early ADHD risk factors could lead to a preschool ADHD risk index to help guide future early intervention.

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#### EW0061

### Executive functioning, response inhibition and attentional process impairments in impulsive children

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Impulsivity is a multidimensional concept that incorporates failure of response inhibition, rapid processing of information, novelty seeking, and inability to delay gratification. Aggressive, suicidal and violent behaviors have been shown to be associated with impulsivity and difficulty in inhibiting responses. As explorers of executive function (EF) and impulsivity research areas believe this two are generally considered conceptually distinct, and suggest that they may be antipodes (i.e., widely separated on a common continuum, upon which they are related), We selected subjects with high ( $n = 25$ ) and low ( $n = 25$ ) levels of impulsivity among 537 students of ages 8 to 10 years-old, who were measured by Conners Teacher Rating impulsivity Scale. Using computerized versions, response inhibition was examined by their performance in a Go/No Go task, general performance in executive functions (EF) was measured by tower of London Test and continuous performance test (CPT) was used to assess their attentional processes. Using independent t-test and ANOVA, the results revealed that overall performance of executive functions in impulsive children in all three areas were remarkably damaged: they had impaired performance regarding Go/No Go task results; also have consumed more time and committed more errors and a worse general performance; and had more errors and weaker performance in attentional processes. The results of this study along with similar results would be effective in achieving a brighter image of impulsive children's cognitive problems in order to provide efficient treatments focused on improving their executive functions.

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#### EW0062

### Assessing discomfort and avoidance of social situations due to weight and physical appearance in adolescents: An exploratory factor analysis of a new measure

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**Introduction** In adolescence experiencing weight and physical appearance concerns is common. These body and weight-related preoccupations are associated with anxiety and may lead adolescents to avoid social situations where their body image is exposed. **Aim** The present study aimed to conduct an exploratory factor analysis and explore the psychometric properties of a new measure of social situations discomfort and avoidance due to weight or physical appearance (DASSWPA) in a sample of adolescents.

**Methods** The sample comprised 357 adolescents aged between 12 and 18-years-old, 195 males and 162 females, with a mean age of 14.69 (SD = 1.68). Participants completed a set of self-reported questionnaires concerning anxiety, stress and depression symptoms (DASS-21), bullying experiences (BIVES-A) and body image related shame feelings (BISS).

**Results** The DASSWPA is comprised of two separate scales: one regarding discomfort/anxiety and another one related to avoidance of social situations. Results suggested that both scales presented a similar two-factor structure. Both scales revealed good psychometric properties, including high internal consistency ( $\alpha = 0.91$ ) and an excellent temporal stability. Moreover, DASSWPA showed significant and positive associations with body image related shame feelings, victimization experiences, and anxiety, stress and depression symptoms. Gender differences were also found, with girls presenting significantly higher levels in the anxiety/discomfort scale than boys.

**Conclusion** The DASSWPA proved to be a reliable and stable measure to assess anxiety and avoidance of social situations due to one's physical appearance and weight in adolescents.

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## e-Poster walk: Child and adolescent psychiatry—part 2

#### EW0063

### Medication effects on EEG biomarkers in attention-deficit/hyperactivity disorder

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EEG biomarkers have become increasingly used to aid in diagnosis of ADHD. Despite several studies suggesting that EEG theta/beta ratio may help discriminating ADHD from other disorders, the effect of medications on theta/beta ratio is not known. Forty-three children with ADHD that were evaluated with quantitative EEG before and after methylphenidate were included in the study. Theta/beta ratio, theta and beta powers for whole brain, central and frontal areas were calculated. Theta/beta power decreased significantly after treatment; however this change was largely due to an increase in beta power, rather than a fall in theta power. The results suggest that beta power is sensitive to medication effects, while theta power remains as a trait biomarker unaffected by medication status. The value of EEG biomarkers for monitoring neuropsychological performance and clinical status should be explored by future studies.

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#### EW0064

### The association between problem behaviors and Yin-Yang temperament in Korean middle school students

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