

disruption. Their results, however, remain controversial and limited by small samples. Further studies need to be done in order to investigate the neuroimmunological factors linked with ASD.

**Keywords:** autism spectrum disorder; neurodevelopment; neuroinflammation; inflammatory cytokines

### EPP0113

#### The gender distribution of psychopathological disorders at a child and adolescent psychiatry department: About 577 cases

A. Ben Othman<sup>1\*</sup>, H. Slama<sup>1</sup>, O. Souid<sup>1</sup>, I. Soualmia<sup>1</sup> and A. Oumaya<sup>2</sup>

<sup>1</sup>Child And Adolescent Psychiatry, Military Hospital of Instruction of Tunis, Tunis, Tunisia and <sup>2</sup>Psychiatry, Military Hospital of Instruction of Tunis, Tunis, Tunisia

\*Corresponding author.

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**Introduction:** The evaluation of the distribution of pathologies according to gender in child and adolescent psychiatry remains an interesting question both for epidemiological and etiopathogenic research.

**Objectives:** The objective of our work was to study the influence of gender on the psychopathological expression of disorders in children and adolescents.

**Methods:** A retrospective study was conducted at the outpatient child psychiatry department at the Tahar Sfar University Hospital in Mahdia, Tunisia, among patients who consulted for the first time during the period from January 2015 to December 2017. To carry out this work, we used a pre-established form evaluating the socio-demographic and clinical information. We opted for grouping diagnoses according to axis I of the DSM IV- TR.

**Results:** We collected 577 cases: 231 girls, and 346 boys. The analysis of the results showed a male predominance (60% of our sample were boys). A significant difference in diagnosis relating to gender was found ( $p = 0.02$ ). In fact, boys were more likely to have pervasive developmental disorders, mental retardation and externalizing disorders, while girls were more likely to develop sleep and eating disorders and internalizing disorders such as mood disorders.

**Conclusions:** Demonstrating the existence of a significant gender distribution of pathologies in adolescent and child psychiatry is certainly of real importance in the context of epidemiological, clinical and etiopathogenic research. However, it would be more efficient to further investigate other epidemiological and socio-cultural data in order to better specify the involvement of each of these factors in the emergence of psychopathology.

**Keywords:** psychopathology; Gender

### EPP0115

#### Discrepancies between parent and child report of anxiety in children with high functioning autism spectrum disorder

R. Ayoub, T. Brahim\*, H. Ben Abid, S. Bousleh and A. Guedria  
Child And Adolescent Psychiatry Department, Fattouma Bourguiba University Hospital, Monastir, Tunisia, Monastir, Tunisia

\*Corresponding author.

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**Introduction:** Many children with autism spectrum disorder (ASD) experience high levels of anxiety. However, inconsistencies between parent and child reports may complicate the assessment of anxiety in this population.

**Objectives:** The aim of this study is to investigate discrepancies between parent and self-reported anxiety among children with high functioning ASD.

**Methods:** Children aged between 8 and 16 years with high functioning ASD, followed in the outpatient unit of child psychiatry at the University Hospital of Monastir, Tunisia and their parents, were invited to complete the Arabic version of the Anxiety Scale for Children with Autism Spectrum Disorder (ASC-ASD). The ASC-ASD is a 24-item questionnaire with six sub-scales, designed specifically for the assessment of anxiety symptomatology in children with ASD. A total score of  $\geq 20$  indicate significant levels of anxiety.

**Results:** We recruited 66 children and their parents. The mean age was 10 years old. High rates of anxiety were found: children's reports revealed that 70% of them present anxiety and 60 % were coated anxious by parent's reports. Performance Anxiety, Uncertainty and Social Anxiety were the most frequent types of anxiety reported by both parents and children. We did not find a significant difference between the parents and children rating of anxiety except for the apprehension subscale.

**Conclusions:** This is one of the first studies to compare between parent and self-reported anxiety among children with ASD using an autism-specific measure of anxiety. No discrepancies have been found between parents and children report, however others studies are needed to investigate discrepancies in children with severe ASD.

**Keywords:** Anxiety; High Functioning Autism Spectrum Disorder; ASC-ASD

### EPP0116

#### Children with hyperactive-impulsive disorder benefit from yoga training

N. Kiseleva<sup>1\*</sup> and S. Kiselev<sup>2</sup>

<sup>1</sup>Laboratory For Brain And Neurocognitive Development, Ural Federal University, Ekaterinburg, Russian Federation and <sup>2</sup>Clinical Psychology, Ural Federal University, Ekaterinburg, Russian Federation

\*Corresponding author.

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**Introduction:** It is known that children with hyperactive-impulsive disorder have deficit in executive abilities. It is important to search for effective approaches for developing executive abilities in children with this disorder.

**Objectives:** The goal of this study was to reveal effect of yoga training on executive abilities in 8-9 years of age children with hyperactive-impulsive disorder. We compared the efficacy of two methods of training (yoga training vs. conventional motor exercises) in a randomized controlled pilot study.

**Methods:** 18 children with hyperactive-impulsive disorder at the age of 8-9 years were included and randomly assigned to treatment conditions according to a 2x2 crossover design. Children from intervention group participated in 12 weeks of yoga training that included body-oriented activity and breathing exercises. To assess the executive functions we used 3 subtests from NEPSY (Auditory Attention and Response Set, Visual Attention, Statue). Effects of training were analyzed by means of an ANOVA for repeated measurements.