

EPP0110

The challenges of managing psychiatric disorders in children with kidney transplant and end-stage renal disease: A case report

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doi: 10.1192/j.eurpsy.2021.566

Introduction: Chronic diseases have often been associated with depression or other psychiatric conditions. Despite the fact that renal transplantation offers children a chance at a better life, it could also raise some challenges. Dealing with a severe medical condition such as chronic renal disease and multidrug therapy with potential long term side-effects from the early years of life can affect a child's emotional and social development.

Objectives: Reporting a case which represents a challenge in treating an adolescent with depression and renal failure.

Methods: Case Report

Results: A 15 year old male with multiple admissions (between the ages of 12 and 15) for recurrent feelings of inadequacy and worthlessness due to his appearance, impaired social skills, hostility towards society, suicide ideation and aggressive behaviour. Moreover, his medical history includes CRS (congenital renal disease), kidney transplant at the age of 2 followed with transplant rejection in 2019. Currently he is under haemodialysis and multiple drug prescriptions associated with his severe medical condition which interferes with the psychotropic treatment.

Conclusions: This case quests what the better choice of intervention is for depression associated with aggressive behavior in a child with kidney failure and with no significant improvement in psychotherapy?

Keywords: kidney failure; child and adolescent psychiatry; Mental disorders; Depression

EPP0108

Features of emotion recognition in deviant adolescents

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doi: 10.1192/j.eurpsy.2021.567

Introduction: Some researchers believe that an increased level of aggression and cruelty towards others in delinquent adolescents is due to impaired recognition of emotions and empathy.

Objectives: The aim of our study was to study the recognition of emotions in deviant adolescents.

Methods: As a material, 156 juvenile offenders from 13 to 19 years old were selected who were in the camp for delinquent adolescents "Sibextrem". All of them committed any offenses, they were registered with the social welfare authorities and the police. The adolescents were trained to reduce aggressiveness. During the training, several exercises were carried out. In the first exercise, the teenagers

were asked to identify the emotions depicted in the photographs. In the second, determine what emotional state their peers portray

Results: During the training process, 78% of adolescents could not identify the emotions presented. This was typical not only for the recognition of standard images, but also for the presentation of emotions by peers. As a result of the training, most adolescents, 64.2%, learned to quite accurately recognize nonverbal emotions. As a result, the number of aggressive manifestations decreased by 31.6%. Mutual understanding and communication improved.

Conclusions: The results obtained indicate that deviant adolescents have impaired emotional perception of others. Difficulty in assessing emotions creates tension in interpersonal relationships and can contribute to the manifestation of various forms of aggressive behavior. The vector of research we have chosen shows the need for further study of the emotional sphere of adolescents and its relationship with deviant forms of behavior.

Keywords: Aggression; delinquent adolescents; emotion recognition

EPP0109

Male infants at risk for ASD have deficit in expressive language at 14 months of age

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doi: 10.1192/j.eurpsy.2021.568

Introduction: Autism spectrum disorders (ASD) is one of the most common neurodevelopmental disorders. It is known that infants who have older siblings with ASD have a risk for development of this disorder. It is important to study the development of children at risk for ASD to reveal early markers for ASD.

Objectives: The aim of this research was to investigate the neuro-cognitive abilities in children at risk for ASD at 14 months of age.

Methods: The experimental group included 21 infants at risk for ASD at 14 months (12 boys and 9 girls). The control group included 21 typically developing children. The children from groups were matched for gender and age. The Bayley Scales (3rd Ed.) were used to evaluate the neurocognitive abilities in children.

Results: The results were evaluated by two-way ANOVA, with level of performance in five Bayley scales as dependent variable, with group and gender as between-subjects factors. We did not reveal the significant ($p \leq 0.05$) influence of the group and gender on performance in cognitive scale, receptive language, gross and fine motor. However, the infants at risk for ASD performed significantly ($p \leq 0.05$) more poorly than infants from control group on expressive language. No differences were found between female infants at risk for ASD and female infants from control group on expressive language.

Conclusions: The obtained results show that male infants at risk for ASD have deficit in expressive language at 14 months of age. It is possible that delay in development of expressive language can be early markers for ASD.

Keywords: autism spectrum disorders; expressive language; Bayley Scales

EPP0110

Yoga exercises can improve sustained attention in children with ADD

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doi: 10.1192/j.eurpsy.2021.569

Introduction: It is known that children with attention deficit disorder (ADD) have deficit in sustained attention. It is important to develop trainings for improving sustained attention in ADD children. It was shown that yoga exercises have positive effect on sustained attention in adults.

Objectives: The goal of this study was to reveal effect of yoga exercises on sustained attention in 7-8 years of age children with ADD. We compared the efficacy of two methods of treatment (yoga exercises vs. conventional motor exercises) in a randomized controlled pilot study.

Methods: 18 children with ADD at the age of 7-8 years were included and randomly assigned to treatment conditions according to a 2x2 crossover design. Children from intervention group participated in 8 weeks of yoga exercises. To assess the sustained attention we used subtest from Luria's child neuropsychological battery. This subtest is designed to assess visual sustained attention. Effects of treatment were analyzed by means of an ANOVA for repeated measurements.

Results: The ANOVA has revealed ($p < .05$) that for sustained attention subtest the yoga exercises were superior to the conventional motor training, with effect sizes in the medium-to-high range (0.39-0.77).

Conclusions: The findings from this pilot study suggest that yoga exercises have positive effect on sustained attention in 7-8 years of age children with ADD. However, it is necessary to do further research to reveal the impact of yoga exercises on the prevention and treatment of attention deficit disorder in children.

Keywords: sustained attention; attention deficit disorder; yoga exercises

EPP0111

The work of a children's psychiatric clinic in the context of the COVID-19 pandemic in Russia

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doi: 10.1192/j.eurpsy.2021.570

Introduction: In the context of the Covid-19 pandemic, healthcare workers experienced significant distress. At the same time, concern for the safety and well-being of employees remained important priorities to ensure the quality of care for children with mental illness.

Objectives: To study the specifics of the experience of the Covid-19 pandemic among employees of a children's psychiatric clinic, highlight the existing among them attitudes about the pandemic and form administrative decisions to improve the quality of care for children.

Methods: 380 employees voluntarily took part in the study (group 1 (G1): 115 people who worked directly with Covid-19 and group 2 (G2): 265 people without this experience) from 05/18/2020 to 05/20/2020. The author's questionnaire included the following blocks: 1) attitude towards patients and colleagues; 2) emotional experiences; 3) ways of coping; 4) social support; 4) finance.

Results: The main motive when deciding to work with Covid-19 was the motive of professional duty (25.4% of participants). There are a number of significant differences between group 1 and group 2: participants in G1 are characterized by denial of special experiences associated with Covid-19, seeking help from colleagues in difficult working conditions, reliance on family members and a positive vision of administrative decisions significantly more than participants G2. Relatives of G1 participants are less concerned about their future and health.

Conclusions: The personnel decisions made on the basis of the research allowed the clinic's team to provide quality care to children and families throughout the pandemic.

Keywords: Child Psychiatry; COVID-19; Patient Care Team; Health Personnel

EPP0112

Inflammatory cytokines dysfunction in autism spectrum disorder

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doi: 10.1192/j.eurpsy.2021.571

Introduction: Autism spectrum disorder (ASD) is a common neurodevelopmental disorder. Its underlying causes and pathophysiology remain unclear. Recent data support the potential involvement of neuroinflammation in the onset of this disorder.

Objectives: The aim of our study was to investigate the potential link between ASD and inflammatory mediators.

Methods: This descriptive study was conducted among ASD outpatients followed-up at the child and adolescent psychiatry department in the Military Hospital of Instruction of Tunis. Blood samples were collected for inflammatory cytokines dosage, notably the interleukin 1 β (IL-1 β), interleukin 6 (IL-6) and the Tumor Necrosis Factor α (TNF- α) immunodose.

Results: Twenty-four patients were included in this study, aged between four and ten years old (mean age= 6,55 years; minimum=4; maximum=10 years). Our sample was mainly represented by male patients (95,6%). TNF- α plasmatic levels were high (>5pg/mL) among all of our sample with a mean of 11,6 pg/mL (minimum= 6,87; maximum=17,7 pg/mL; standard deviation= 3,52 pg/mL), suggesting abnormal peripheral blood mononuclear cells response. However, IL-1 β and IL-6 plasmatic levels were relatively normal.

Conclusions: An immune response dysregulation was detected in our sample. Multiple clinical and experimental studies investigated the implication of inflammatory cytokines in neurodevelopmental