

## EW0324

### Cognitive, emotional and personal features of children with cleft lip and palate

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**Introduction** Cognitive and behavioural problems usually accompany isolated clefts of the lip and/or the palate (ICLP) [1].

**Aims** To investigate cognitive, emotional and personal features of children with ICLP in comparison with non-cleft children from complete families and non-cleft orphans.

**Methods** The ICLP group consisted of 29 children (age 14.2 ± 0.7). The first comparison group (1CG) consisted of 34 non-cleft children (age 14.1 ± 0.5). The second comparison group (2CG) consisted of 30 non-cleft orphans (age 13.8 ± 0.8). Drawing tests "House-Tree-Person" have been selected to evaluate the level of children's development, emotional and personal features in all three groups. M. Luscher Color test was chosen to figure out the children's psychological state, regardless of education level.

**Results** The most characteristic features of the ICLP children and 2CG were similar. They included infantilism (69%; 43.3%), low self-control (65.5%; 56.7%), demonstrative demeanor (62%; 36.7%), escape from reality into fantasy (93%; 76.7%), anxiety (69%; 63.3%). ICLP children compared with the 1CG has shown significantly higher level of aggression (79.3% vs. 4.2%), increased self-esteem (59.6 vs. 4.2%), impulsiveness (51.7% vs. 16.7%), the importance of other people's opinions (59.6% vs. 29.2%). Contrary, the feelings of lack of emotional warmth, the need for protection were observed in 1CG more frequently—70.8% vs 55.2% in ICLP and 60% in 2CG.

**Conclusions** Psychological correction in children with ICLP should be aimed at increasing the adaptive functions, facilitating communication with peers, search the area for self-realization.

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

**Reference**

[1] van der Plas E, Kosciak TR, Conrad AL, et al. *J Clin Exp Neuropsychol* 2013;35(5):489–500.

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## EW0325

### Prenatal and perinatal factors in autism spectrum disorders—a case control study of a Serbian sample

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**Introduction** Autism spectrum disorders (ASD) are complex psychiatric disorders, with both genetic and environmental factors

implicated in their etiology. Recent studies suggest the prenatal and early postnatal genesis of ASD, therefore, understanding the effect of environmental risk factors could be important for prevention and treatment of ASD.

**Aims** The aim of this study was to determine the association of prenatal factors and perinatal complications with ASD.

**Methods** Our study included 102 subjects with ASD (80% boys) aged 9.35 ± 5.85, and 107 age and sex matched healthy controls (77% boys). For the diagnosis of ASD, we used the ICD-10 criteria and Autism Diagnostic Interview-Revised (ADI-R). A questionnaire regarding prenatal and perinatal factors/complications was administered to all subjects.

**Results** Logistic regression model of having autism vs. being a control subject included gender, age, maternal and paternal age at birth, pregnancy order, smoking in pregnancy, number of medication during pregnancy (mostly tocolytics, antihypertensives, antiarrhythmics), and early postnatal complications (mostly prematurity, low birth weight, hyperbilirubinaemia). The model was significant, explaining about the third of variance, with number of medication during pregnancy and having an early postnatal complication as significant predictors.

**Conclusions** Our study has shown a significant association of specific prenatal and perinatal factors and ASD, even after controlling for other potential confounding variables. Identifying specific risk factors is important for prevention of ASD. It is also the first step in defining basis of the gene–environment interaction mechanism, which might enable development of an individualised therapeutic approach for this group of disorders.

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## EW0326

### Sensory processing disorders and psychopathology

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**Introduction** Sensory processing is the individual's ability to receive, process and integrate sensory information from the environment and body movement in the central nervous system, in order to produce adaptive responses. Sensory processing disorders (SPD) are associated to difficulties in regulating emotions and behaviours as well as motor abilities in response to sensory stimulation that lead to impairment in development and functioning. It is estimated that SPD affect 5–16% of school-aged children. Although these diseases constitute a primary diagnostic category in the Diagnostic Classification of Mental Health and Development Disorders of Infancy and Early Childhood: DC0-3, they have not yet been validated by the Diagnostic and Statistical Manual of Mental Disorders-DSM. In the latest edition of DSM, SPD were only included as one of the diagnostic criteria of autism-spectrum disorders. However, several studies have suggested that SPD may present themselves solely or coexist with other clinical conditions.

**Objective** The aim of this study was to review systematically the relationship between SPD and psychopathology.

**Methodology** Articles indexed in the Pubmed database were analyzed.

**Results/conclusion** Although sensory processing problems are well known to occur in association with autism, their relationship with other mental disorders is not a well studied area. Some studies have related them with ADHD, behavioural disorders and learning disorders. Some studies also comproved that SPD are a valid diagnosis and that there are individuals with SPD who do not meet the criteria for other known disorder. One study found an abnormal