

Conclusions: The differential impact of trauma severity on ER in males and females with FEP may be theoretically interpreted as the distinct way that hypervigilance affects the sexes. Early intervention services should refine social cognitive interventions in male and female trauma survivors to facilitate social functioning improvements.

Disclosure: Funding: This study was supported by the Canadian Institutes of Health Research (#68961) to M.L. and A.M. Salary awards include: The Fonds de recherche du Québec - Santé to M.L. and R.J., the James McGill Professorship to M.L., and the Canada Research Chair.

Keywords: psychosis; social cognition; sex differences; childhood trauma

O271

Multivitamin, mineral and n-3 pufa supplementation to reduce aggression among chronically admitted psychiatric patients: A randomized clinical trial

N. De Bles^{1*}, N. Rius Ottenheim¹, J. Geleijnse², O. Van De Rest², J. Bogers³, W. Van Den Hout⁴, A. Van Hemert¹ and E. Giltay¹

¹Psychiatry, LUMC, Leiden, Netherlands; ²Division Of Human Nutrition And Health, Wageningen University & Research, Wageningen, Netherlands; ³High Care Clinics, MHO Rivierduinen, Leiden, Netherlands and ⁴Biomedical Data Science, LUMC, Leiden, Netherlands

*Corresponding author.

doi: 10.1192/j.eurpsy.2021.444

Introduction: Aggression and violent incidents are a major concern in psychiatric inpatient care, potentially leading to physical and psychological consequences for both patients and staff. Nutritional supplementation was found to reduce aggressive incidents and rule violations in forensic populations and children with behavioural problems.

Objectives: To assess whether multivitamin, mineral and n-3 PUFA supplementation is effective in reducing the number of aggressive incidents among psychiatric patients who are chronically admitted.

Methods: In a pragmatic, multicentre, randomized, double-blind, placebo-controlled study, psychiatric inpatients were randomized to receive either three supplements containing multivitamins, minerals, and n-3 PUFA or placebo. During the intervention period of six months, aggressive incidents were assessed using the Staff Observation Aggression Scale – Revised (SOAS-R). Secondary outcome parameters were the patients' quality of life and affective symptoms. The trial was registered in the Clinical Trials Register (NCT02498106).

Results: A total of 176 patients were enrolled and randomly assigned to receive supplements (n=87) or placebo (n=89). They were on average 49.3 years old (SD=14.5), and 64.2% were male. Most patients had a psychotic disorder (60.8%). Supplementation versus placebo significantly increased circulating micronutrient levels. The primary outcome of SOAS-R incidents was similar in those assigned to supplements (1.03 incidents per month; 95% confidence interval [CI]: 0.74-1.37) and placebo (0.90; 95%CI: 0.65-1.19), with a rate ratio of 1.08 (95%CI: 0.67-1.74; p=0.75). Differential effects were neither found in sensitivity analyses on the SOAS-R, nor on secondary outcomes.

Conclusions: Six months of nutritional supplementation did not reduce aggressive incidents among chronically admitted psychiatric inpatients.

Disclosure: No significant relationships.

Keywords: n-3 PUFA; Aggression; psychiatric inpatients; nutritional supplements

O272

Childhood trauma in schizophrenia spectrum disorders and intensity of psychotic symptoms

M.-J. Alvarez^{1*}, Q. Foguet-Boreu¹, J. García-Eslava¹, P. Roura-Poch², E. Tasa-Vinyals¹, A. González-Vázquez³ and H. Masramon⁴

¹Mental Health Department, Consorci Hospitalari Vic, Vic, Spain;

²Epidemiology Department, Consorci Hospitalari Vic, Vic, Spain;

³Mental Health Department, Complejo Hospitalario A Coruña, a Coruña, Spain and ⁴Mental Health Department, Clínica Sant Josep, Vic, Spain

*Corresponding author.

doi: 10.1192/j.eurpsy.2021.445

Introduction: The relationship between history of childhood trauma (CT) and current schizophrenic symptoms is complex and controversial. Most of the studies report more positive psychotic symptoms (PPS) in psychotic patients who had suffered CT. Findings for negative psychotic symptoms (NPS) are mixed: most authors do not find differences or even find less.

Objectives: The purpose of this study is to evaluate and describe the types of CT suffered by patients diagnosed with schizophrenia spectrum disorders (SSD), and to analyse the relationship between history of CT and the present-time intensity of PPS and NPS.

Methods: We conducted a cross-sectional study of 45 adult patients with a SSD. Instruments: Childhood Trauma Questionnaire, short form (CTQ-SF) for measuring CT and Positive and Negative Syndrome Scale (PANSS) to assess the PPS and NPS of psychosis.

Results: 77.8% of the patients reported having suffered any kind of CT. By types of trauma: 48.9% reported emotional abuse, 28.9% physical abuse, 40.0% sexual abuse, 55.6% emotional neglect and 46.7% physical neglect. A lineal correlation between CTQ-SF and PANSS+/- scores was performed. Neither total PANSS+ nor any particular PANSS+ items correlate with CTQ scores. A significant inverse lineal association of moderate intensity exists between total PANSS- score and CT intensity ($\rho = -0.300$, $p = 0.045$)

Conclusions: In line with previous research, our study has found inverse correlation between NPS and CT. In contrast, no association was found between PPS and CT. Our sample was mostly composed by chronic patients, which might explain the differences with the previous literature.

Disclosure: No significant relationships.

Keywords: Schizophrenia spectrum disorders; childhood trauma; positive psychotic symptoms; Negative psychotic symptoms