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Alteration of biochemical parameters in prolonged antipsychotics and antidepressive therapy

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Introduction: Psychopharmacology has become more complex over the past decade or so, with many more medications available from different pharmacologic classes.

Aim: The aim of the study was to investigate the alterations of biochemical parameters in patients with schizophrenia and bipolar disorders treated with atypical antipsychotic and antidepressant drugs (olanzapin, risperidon, clozapin, tricyclic antidepressants, selective serotonin reuptake inhibitors (SSRIs), serotonin and norepinephrine reuptake inhibitors (SNRIs).

Material & Methods: Fifty three patients in prolonged treatment with schizophrenia and bipolar disorders were evaluated; 16 women and 37 men aged between 18 and 75 years. Blood collection and examination were performed at our laboratory with autoanalyzer or SAT 450 and MAGLUM 900.

Results: Evaluation after repeated measurements indicated significant differences in comparing the mean values obtained in each patient. The indicators of development of metabolic syndrome showed a significant increase of lipid panel especially triglycerides, total cholesterol, fasting glucose, CK level and hepatic enzymes ($p < 0.01$). Plasma level of prolactin was significantly higher in patients with the predominant negative symptoms of schizophrenia $4.88 (\pm 3.72)$.

Conclusion: This study supports the hypothesis that changes in the studied parameters are associated with the treatment with atypical antipsychotic and antidepressant drugs. Monitoring patients' blood compositions could result in better prognostic evaluations and aid in determining additional systemic treatment options.

Biography

Valentina Asabella is a Doctor in Regional Health Authority, Tirana, Albania. Her research interests are Psychiatry, Psychology & Mental Health.

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