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Clonidine test in bipolar vs unipolar melancholic patients

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Key words: Clonidine test; Bipolar depression; Mania

An increase in growth hormone (GH) response to catecholaminergic challenges has been suggested in bipolar depressed patients (Siever et al., 1982). In this study, we specifically assessed GH response to clonidine, an α 2-adrenergic agonist, in 10 bipolar melancholic inpatients matched for gender, age, and, in the case of women, menopausal status, with 10 unipolar melancholic inpatients. There was no statistically significant difference in mean GH peak responses to clonidine between bipolar and unipolar depressives: 5.72 ± 7.60 ng/ml vs 4.85 ± 8.19 ng/ml (t = 0.25, df = 1.18 p = 0.80). These results do not suggest increases in α 2-adrenergic receptor sensitivity in bipolar depressed patients but cannot address the apparently more physiological hypothesis that receptor increases precede the 'switch' to mania (Bunney et al., 1977).

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Red blood cell folate and suicidal behavior

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Key words: Folate; Depression; Suicidal behavior

Several lines of evidence suggest a relationship between depression and folate deficiency (Reynolds et al., 1984). In fact, through their activity as coenzyme for tryptophane and tyrosine hydroxylase, folic acid derivatives play a crucial role in the synthesis of serotonin and dopamine, both implicated in the biology of affective disorders and particularly in suicidal behavior. On these basis, the aim of the study was to assess the role of folic acid as a biological correlate of suicidal behavior. The study was performed in 18 DSM-III-R major depressive inpatients with a history of suicide attempts, matched for gender, age and, in case of women, menopausal status, with 18 major depressive inpatients without history of suicidal behavior. Red blood cell folate concentrations were significantly lower in the group of depressed suicidal patients than in the control group: 190.1 ± 42.3 ng/ml vs 289.7 ± 87.8 ng/ml (t = 4.33, df = 34, p = 0.0002). The results of the present study suggest a role for folic acid as a biological correlate of suicidal behavior. They also support the possible usefulness of folic acid supplement in the pharmacological prevention of suicidal behavior.