

Assessment of neurochemical alterations that occur in bipolar patients following medication using proton magnetic resonance spectroscopy

Fekri, M. Husain, M.

Current Psychiatry. Ain Shams University (Print)

2006 v13 n1

Patients with bipolar disorder having manic episode were hypothesized to demonstrate metabolic abnormalities within the anterior cingulate and that these abnormalities are altered with medication. Twenty patients with bipolar disorder (age 20-53 years, mean 29.5 + or- 7.61) with a mean duration of 32.65 + or- 12.93 to achieve complete remission were evaluated with proton MRS. The metabolic concentration of the anterior cingulate were calculated using a single voxel. The results of this study revealed that there was a significant decrease in the level of myo-inositol following treatment. In addition, there was a trend towards an increase in the level of N-acetyl aspartate following medication. However, there was no significant difference in the level of choline and creatine.