Efficacy of Quetiapine treatment on bipolar depression and its impacts on IL-1, IL-10, TNF-α levels of inflammatory cytokines

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To investigate the clinical efficacy of quetiapine treatment on bipolar depression and its impact on IL-1, IL-10, TNF-α level of inflammatory cytokines. Methods: A total of 106 patients with bipolar depression were randomly divided into control group and observation group with 53 patients in each group. The control group was given lithium treatment, while observation group was given quetiapine treatment. Results: After treatment, IL-1, TNF-α levels of the observation group were significantly lower than that before treatment, but IL-10 level was increased significantly ($P<0.05$). After treatment, serum albumin, total bilirubin of the observation group increased significantly ($P<0.05$); HAMD scores were significantly lower than that before treatment, and HAMD scores were also lower than that of observation group after the treatment ($P<0.05$). Conclusion: Quetiapine treatment is effective on patients with bipolar depression, it can significantly decrease IL-1, TNF-α levels.

[KEY WORDS] Quetiapine; Bipolar depression; IL-1, IL-10, TNF-α