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STUDY ON THE EXECUTIVE FUNCTION AND LEARNING ABILITY OF THE FIRST-EPISODE SCHIZOPHRENIA

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Objectives: To investigate the executive function and learning ability of the patients with first-episode schizophrenia, and its relationship with the patients' clinical symptoms.

Methods: 50 schizophrenia patients and 50 healthy controls were tested by the Tower of London(TOL). All the subjects received two phases of the test of TOL continuously, with a break of 1 minute. And Positive and Negative Symptom Scale (PANSS) was used to assess the clinical symptoms of the patients.

Results: Compared with the control group, the number of reply during the 1^{st} phase (x_1) and the 2^{nd} phase (x_2) of the patients group, was lower (P < 0.01); the reaction time during the 1^{st} phase (t_1) and the 2^{nd} phase (t_2) was longer (P < 0.01); while the rate of correct answer during the 1^{st} phase (p_1) and the 2^{nd} phase (p_2) do not differ. For the control group, x_2 was higher than x_1 (P < 0.01), and t_2 was shorter than t_1 (P < 0.01). However, for the schizophrenia group, there were no difference between x_1 and x_2 , t_1 and t_2 . The value of x_1 , p_1 , x_2 of the patients were correlated negatively with the PANSS negative subscale score (P < 0.05), and t_1 and t_2 were correlated positively with the the negative subscale score and general psychopathology subscale score.

Conclusion: The executive function and learning ability of the schizophrenics are impaired and the impairment of the cognitive function is significantly correlated with the negative symptoms of schizophrenia patients.