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Estimation of T3, T4, TSH and Prolactin Hormones in Patients with Toxoplasmosis

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Abstract

In this study, a total of 115 pregnant women were enrolled, 65 infected with toxoplasmosis and 50 without toxoplasmosis as a control group who attended Baghdad teaching hospital during the period from 1st February 2019 to 1st March 2020. The results showed no significant differences between the mean age of the study group (25.54±4.161) years and the control group (26.28±4.224) years, and the mean of the total (25.86±4.186) between them approximates the two means for each group. The mean T3 hormone in the study group was (3.17±1.41) compared to the control group (1.27±0.64) with a highly significant difference P<0.01, while the mean T4 hormone in the study group was (3.63±1.00) compared to the control group (3.86±1.72) with no significant difference P>0.05, whereas the mean TSH in the study group was (2.62±1.07) compared to the control group was (1.11±0.94) with a highly significant difference P. No significant difference was found between Toxoplasma IgG positive and mean T3 hormone levels 56 (3.10±1.48) P>0.05, and also no significant difference was found between Toxoplasma IgG positive and T4 hormone levels 56 (3.66± 0.84), P>0.05. The results of the Toxoplasma IgG positive with mean TSH levels 56 (2.95±0.73) showed a highly significant difference P<0.01, and the Testosterone the mean was in 56 Toxoplasma positive (4.34±1.24), was a highly significant P<0.01(HS), and the results of mean T3 hormone showed abnormalities in patients with Toxoplasmosis 24(20.9%) in comparison with the control group 34(29.6%) with a highly significant difference P=.001. The abnormalities in T4 levels were 15(13.0%), compared to the control group 29(25.2%) with no significant difference P=.363, and no change occurred in the levels of TSH among patients, while the levels of Testosterone showed high abnormalities 56(48.7%) in comparison with the control group 5(4.3%) with a highly significant difference P=.001.

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