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# Tregulatory cells in graves disease

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This study was performed to assess the relation between CD4+ CD25+ T regulatory cell and Graves' disease and its role in the pathogenesis of Graves' disease. The diagnosis of Graves' disease is confirmed by detecting thyroid autoantibodies. Also this study was performed to assess apoptosis of peripheral blood lymphocytes in patients with Graves' disease. This study was done during the period from September 2006 to July 2007 on thirty patients (26 females and 4 males) suffering from Graves' disease. Their ages ranged from 18 to 49 years. They were selected from the General Surgery Department and the Outpatient Clinic of General Surgery Department of Benha University Hospital. Ten apparently healthy persons matched for age and sex were chosen to serve as a control group. Diagnosis and selection of cases were based on: complete history taking, clinical examination and laboratory investigations. It must be noted that the cases included in the study were either just diagnosed and in the beginning of the treatment or in relapse of symptoms during the treatment. The following methodology was performed: (A) Sample collection- from each selected patient and control, 7 ml blood were aseptically withdrawn by sterile venipuncture and collected in 3 test tubes:- 5ml fresh heparinized blood were used for assessment of apoptosis.