Objective: Obesity is seen in 95% of patients with Cushing Syndrome (CS). Obesity patients took part in Cushing Syndrome screening patients groups. Our aim was to evaluate the frequency of CS in patients with morbid Obesity.

Method: We enrolled into the study all patients which applied for the Polyclinic of Tokat State Hospital and had morbid obesity (body mass index 40k/m2) and evaluated for Cushing Syndrome between November 2012 - January 2014.

Findings: 571 patients with average of age was 45.64±11.9 were enrolled into the study. Patients' average body mass index was 44.07±4.18 kg/m2. Cortisol value 1.8 microgram/dl is founded in 1mg DST in 26 of patients (%4.55). 2 mg DST was done for these 26 patients for 2 days. Cortisol value 1.8 mikrogram/dl was found in 2 mg DST and Cushing Syndrome was excluded in 23 of 26 patients. Cushing illness (related with hypophyseal adenoma) was found in 2 of 3 patients which cortisol value was not suppress with 2mg DST and Cushing Syndrome was related with adrenale adenoma which secretescortisol was found in one of them. One of Cushing Syndrome diagnosed patients had DM and HT, 3 of them has moon face, buffalo hump, truncal obesity and one of them had purple striae. We found % 0.53 Cushing Syndrome incidence in the patients with morbid obesity. Result: We have determined that there was Cushing syndrome in 0.53% of patients with obesity. For this reason we thought that Cushing syndrome screening was not necessary for morbid obesity patients.