



8th BALKAN CONGRESS  
of ENDOCRINOLOGY

3-5 MAY 1995  
BURSA, TURKIYE

Abstract  

---

Book  

---

**Editors:**

Prof. Şazi İMAMOĞLU, M.D.

Prof. Ayhan ARINIK, M.D.

Ercan TUNCEL, M.D.

Erdinç ERTÜRK, M.D.

## **SERUM T3, T4, TSH, FREE T3 AND FREE T4 VALUES IN CRITICAL SURGICAL PATIENTS.**

**Müfide N. AKÇAY\*, Güngör AKÇAY, M. Yavuz ÇAPAN\*,  
Fehmi ÇELEBİ\*, Durkaya ÖREN\*.**

**\*Department of General Surgery and Department of Internal Medicine, Medical School,  
Atatürk University, Erzurum, Turkey.**

Alterations in circulating thyroid hormone concentrations occur in a variety of nonthyroidal disease states. In the present study, serum total T3, total T4, TSH, free T3 and free T4 levels were measured in 40 patients suffering acute severe trauma and high risk and seriously delayed intraabdominal infection on 1st, 2nd, and 5th day. It was determined that there was an evident reduction of total T3 and free T3 during the study period ( $p < 0.0001$  and  $p < 0.05$ , respectively). We concluded that the mean total and free T3 levels fell rapidly after the onset of trauma and serious disease and remained low throughout the first 5 days. Low concentrations of T3 correlate with poor prognosis in nonthyroidal illnesses.