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Serum chitotriosidase activity in acute appendicitis

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Chitotriosidase is one of the most quantitative proteins secreted by activated macrophages, so its activity has been proposed as a biochemical marker of macrophage accumulation. The clinical importance of the chitotriosidase is still largely unknown. Our aim was to evaluate diagnostic accuracy of serum chitotriosidase activity in Acute Appendicitis (AA). A total of 34 patients with preoperative AA diagnosis (18 men and 16 women; mean age, 28.8 ± 10.9 years) were enrolled in this study. The appendix specimens were classified as normal appendix (10 patients) and AA (24 patients). The serum chitotriosidase activity was measured preoperatively. Diagnostic value of the preoperative chitotriosidase activity as assessed through the corresponding receiver operating characteristic curve was well (area under the curve, 0.771; 95% confidence interval, 0.647-0.877; $P < 0.05$). Preoperative serum chitotriosidase activity may be a useful marker for diagnosis of AA and future studies are required to confirm the results presented here.

Biography

Atahan Acar is Graduated from Medical School of Ankara University. He has completed his General Surgery Residency at Ministry of Health, Ankara Numune Education and Research Hospital, Ankara, Turkey. He has worked as a General Surgeon at Cankırı Ilgaz State Hospital and also as a Surgeon and Head Physician at Burhaniye and Edremit State Hospitals at Balıkesir Province, respectively. He finally started to work as a Specialist at The First Department of Surgery, Izmir Katip Celebi University Atatürk Education and Research Hospital. He has also received certificate of Fellowship in minimal access Surgery at World Laparoscopy Hospital at Gurgaon, Haryana, India.

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