

عنوان مقاله:

DIAGNOSTIC ACCURACY OF SERUM BIOMARKERS S100A8/A9 AND ALVARADO SCORE IN THE DIAGNOSIS OF APPENDICITIS

محل انتشار:

چهاردهمین کنگره سالانه طب اورژانس ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

نویسندگان:

Hassan Motamed - *Emergency Medicine Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Meisam Moezzi - *Emergency Medicine Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Samaneh Porozan - *Emergency Medicine Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Mohammad Ali Fahimi - *Emergency Medicine Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Nastaran Ranjbari - *Pathology Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Mohammad Ali Ghas Nadoshan - *Emergency Medicine Department, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

خلاصه مقاله:

Background and Aim : Appendicitis is one of the most common causes of patients' attendance to emergency department with abdominal pain. Therefore, the present research aimed to investigate the diagnostic accuracy of serum biomarker S100A8/A9 in diagnosis of appendicitis. **Methods :** The study subjects were all patients suspected of appendicitis admitted to the emergency department and they were selected through non-probability consecutive sampling technique. After an initial visit by an emergency medicine specialist and provision of the primary care, if the diagnosis of acute appendicitis in the patient was confirmed, blood samples and the required tests were taken to determine the serum level of biomarkers S100A8/A9. Moreover, Alvarado score was determined for the patient. Based on clinical findings in patients, ultrasonography was performed for the patients and, if necessary, we consulted with a surgeon. **Results :** In this descriptive-analytical study, 166 patients with suspected appendicitis admitted to the emergency department were entered into the study. The mean age of the patients participating in the study was 5.38 ± 11.96 years. The average elapsed time from the onset of pain to the time of patient attendance was 1.14 ± 2.52 hours (between 1 to 4 hours). Sensitivity, specificity, positive predictive value, and negative predictive value of the biomarker were 61.9, 40.2, 39, and 63.63 %, respectively. The area under the ROC curve for the biomarker was 0.46 ± 0.498 . **Conclusion :** The study results indicate that the serum level of biomarkers S100A8/A9 has a low sensitivity and specificity, therefore, along with other tests, their routine use in the diagnosis of appendicitis is not recommended.

کلمات کلیدی:

biomarker, S100A8/A9, appendicitis, sensitivity, specificity

