

# The diagnostic values of procalcitonin and interleukin 6 in acute appendicitis

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#### ABSTRACT

Objective: Despite the recent use of computed tomography scan and diagnostic laparoscopy, acute appendicitis is still highly misdiagnosed. Timely diagnoses of acute appendicitis is more crucial in children and elderly patients because of vague symptoms and rapid progression to perform these age groups, which may result in high rates of morbidity and mortality. The aim of the present study was to find the diagnostic values of procalcitorin and interleukin 6-(8,-6) for diagnosing acute appendicitis in our center.

Material and methods: Patients who were suspected of acute appendicitis and who were referred to the emergency department of a tertiary care urban hospital in 2016 were enrolled in the study. A 5 mil blood sample was obtained from each patient before appendictomy and was examined for procedulous and II.-6. Then, the resected specimen of the appendix was studied by a pathologist, and a definite diagnosis was made.

Results: Eighty patients including 53 (86.3%) men who underwent appendictomy were enrolled in the study. The diagnosis of acute appendicitis was histopathologically confirmed in 60 (75%) patients including 18, 29, and 22, patients with inflammatory, supportative, and gargenous/perforated appendicitis, respectively. The sensitivity and specificity of procalcitonin versus 8.6 for diagnosing acute appendicitis were 65% and 80% vs. 76% and 55%, respectively. The sensitivity and specificity of concurrent procalcitonin and 8.6 for diagnosing acute appendicitis were 95% and 55%, respectively.

Conclusion: Our study suggests that parallel measurement of procabilitonin and IL-6 decreases unnecessary negative appendectomies.

Keywords: Appendicitis, interleukin 6, procalcitanin

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#### INTRODUCTION

Appendicitis is the most common cause of surgery of the abdomen with an incidence rate of 11 in 10,000 annually and most commonly occurred in the second to fourth decade of life especially in young adults (1, 2). Timely diagnosis of acute appendicitis is crucial especially in children and elderly patients because of vague symptoms and rapid progression to perforation in these age groups, which may result in high rates of complications including wound infection, intra-abdominal abscess formation, and mortality (3, 4). Despite the recent use of computed tomography scan and diagnostic laparoscopy, acute appendicitis is still highly misdiagnosed at a rate of 15%, with the highest number of negative appendictomy seen in elderly women (5). Hence, additional preoperative testing may be helpful for the timely diagnosis of acute appendicitis. Although the role of the measurement of inflammatory cytokines, such as procalcitonin, interleukin 6 (IL-6), and C-reactive protein, which are involved in acute and chronic inflammatory responses in addition to the measurement of white cell count and bilirubin for diagnosing acute appendicitis, has been investigated in few studies, the results varied with no consensus about the best test (6, 7).

The aim of the present study was to find the diagnostic values of procalcitonin and IL-6 in the diagnosis of acute appendicitis and their associations with the severity of the disease in our center.

#### MATERIAL AND METHODS

#### Partient selection

In this prospective study, patients who were suspected of acute appendicitis and who were referred to the emergency department of a tertiary care urban hospital in 2016 were enrolled in the study. Patients with an Alvarado score of >5 or in whom the diagnosis of acute appendicitis was documented using computed tomography scan were included in the study. Exclusion criteria comprised patients with a history of autoimmune disease; who underwent transplantation; receiving immunosuppressive, antibiotic, and/or immunomodulator drugs; who were in sepsis; or who were markedly overweight with a body mass index >25. All patients were visited and examined by the same surgeon.

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compounds isolated from serum urine or other fluids can be used as an indicator of the presence or severity of a particular disease state The use of biomarkers is becoming a fundamental practice in medicine Biomarker research involves a significantly greater scope of laboratory medicine This monograph presents information on several types of biomarkers for general pathologies preeclampsia metabolic syndrome iron metabolism bone disease liver function renal function cardiovascular pathology including atrial fibrillation peripheral artery disease thrombotic disorders and sepsis Additional information on endocrine and salivary biomarkers is also presented New Trends in Biomarkers and Diseases An Overview is an ideal reference for medical students pathology trainees and clinical researchers seeking information on biomarkers in Infections in the Intensive Care Unit, volume II Zhongheng Zhang, George Dimopoulos, Yuetian medicine Yu,2025-02-05 Infectious disease is always a major problem in the intensive care unit ICU especially during the COVID 19 pandemic Based on the EPIC III study it is revealed that almost half of the critically ill patients admitted to the ICU have infectious diseases What s more if the infections are hospital acquired or ICU acquired the pathogens are most likely to be multidrug resistance MDR Thus the application of the antimicrobial stewardship program ASP and infection control program ICP is much more important With the development of laboratory medicine some new diagnostic tools based on molecular detection have been invented in these years Gene X pert FilmArray and metagenomics next generation sequencing mNGS are widely used in the ICU Therefore individualized diagnosis and precise treatment for critically ill patients with infectious diseases are recommended In addition more algorithms and prediction models have been developed based on machine learning and artificial intelligence AI and many new antibiotics have also been approved in clinical practice However the mortality of sepsis or severe infectious diseases does not decrease significantly Therefore the strategies for diagnosing and treating infectious diseases need to be thought over again **American Journal of Respiratory and Critical Care** Medicine, 2009 Issues in Biomedical Engineering Research and Application: 2011 Edition, 2012-01-09 Issues in Biomedical Engineering Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Biomedical Engineering Research and Application The editors have built Issues in Biomedical Engineering Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Biomedical Engineering Research and Application in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Biomedical Engineering Research and Application 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Sepsis in Neonates and Children Luregn J. Schlapbach, Eric Giannoni, 2021-01-04 **Romanian Journal of Internal** 

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