



**INCIDENCE OF BACTERIAL AND ABACTERIAL PROSTATITIS AMONG THE  
PROSTATITIS PATIENTS IN THI-QAR PROVINCE SOUTH OF IRAQ**

**ISSA AWATIF H<sup>1</sup>, AL-SAADY MOHAMMED AK<sup>2</sup> AND ATIYALL SAAD A<sup>3</sup>**

**1:** Department of Biology, College of Sciences, Basra University

**2:** Department of Microbiology, College of Medicine, Babylon University

**3:** Department of Microbiology, College of Medicine, ThiQar University

**Corresponding Author: E Mail: [awatifhissa@yahoo.com](mailto:awatifhissa@yahoo.com)**

**ABSTRACT**

The prostatitis is a worldwide problem affects man at all ages , the incidence of the types of prostatitis is remain unclear due to the defects in the methods that differentiate between bacterial and abacterial prostatitis especially culture. Objective of current study was to determine the incidence of different types of the prostatitis by using culture and PCR based technique using universal bacterial primer. Post massage urine specimens were collected from 60 patients with prostatitis and 20 apparently healthy men, the bacterial infections were diagnosed by culture method and amplification by using B27f-U1492r universal bacterial primer. Bacterial prostatitis was diagnosed in 11(18.33%) patients by using culture, while, 23(38.33%) patients gave a positive bacterial signals in PCR with high significant differences ( $p < 0.001$ ). The remaining patients 37(61.67%) was suffering from abacterial prostatitis. Therefore, according to the results above abacterial prostatitis were high prevalent among the patients. But, bacterial prostatitis has high proportion which is larger than those of international survey which recorded in some studies. PCR technique has a high specificity and sensitivity in detection of bacteria in prostatic specimens than culture technique.

**Keywords: Bacterial and Abacterial Prostatitis, Thi-Qar and Iraq**

**INTRODUCTION**

Prostatitis is an inflammation of prostate gland classified into four categories including: acute bacterial prostatitis, chronic bacterial prostatitis, chronic prostatitis/chronic pelvic pain syndrome which is may be inflammatory or non-

inflammatory and asymptomatic inflammatory prostatitis [1, 2, 3].

The first and second categories are infectious caused by bacteria, acute bacterial prostatitis (ABP) is a serious bacterial infection of the prostate. Chronic bacterial