بِسْمِ اللّهِ الرَّحْمَنِ الرَّحِيمِ

قال الله تعالى

وَقُلْ رَبِّ زِدْنِي عِلْمًا

صدق الله العظيم

سورة طه ألآية 114

Dedication

To my Parents who are `the source of love and care …

To my Husband for his support and frequent assistance…

To my Sisters and Brother who are found at the times of Need…

To my Teachers, friends and colleagues…

.

I dedicate this …research

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Abstract

This study was carried out in the period from May 2007 - March 2008 to detect the presence of *Serratia marcescens* in patients suffering from pneumonia. Forty six sputum specimens were collected from patients who attended Albangadid Hospital, Alshaab .Hospital and National Health Laboratory

Bacterial DNA was extracted from each sputum specimen using phenol chloroform method. Real Time PCR technique was adopted to detect the presence of Serratia .marcescens

The result revealed that only three (6.5**%)** specimens were positive and the rest (93.4%) . were negative

The study concluded that the Real-time PCR technique facilitates detection of bacterial .pathogens without the need for bacteriological culture

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أجريت هذه الدراسة في الفترة ما بين مايو 2007 إلى مارس 2008 لتحديد وجود بكتريا السراتية الذابلة فى مرضى الالتهاب الرئوى تم جمع ست واربعون عينه قشع من مرضى مستشفى البان جديد التعليمي , مستشفى الشعب التعليمي والمعمل الـ قومى الصحى . تم استخلاص الحمض النووي لكل عينة قشع باستخدام طريـ قة الفينول كلوروفورم ثم استخدمت تـ قنية تفاعل البلمرة المتسلسل الزمنى لتحديد بكتريا السراتية الذابلة. أظهرت النتائج أن 6.5% من العينات كانت نتيجتها ايجابية و 93.4% كانت سلبية خلصت الدراسة الى ان تفاعل البلمرة ا لمتسلسل الزمنى يسهل اكتشاف البكتريا بدون اللجوء للاستزراع البكتيرى .

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