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PCR Technique Detection of Chlamydia Trachomatis DNA Band Using Silver Nitrate Staining

Abstract

Chlamydia trachomatis genital infection is one of the Sexually Transmitted Diseases that can cause cervicitis, salphingitis, ectopic pregnancy, infertility, chronic pelvic pain and pelvic inflammatory disease (PID) in women and epididymitis and non gonococcal urethritis (NGU) in men. The prevalence of this infection is 7.9% in women and 7.6% in men overall. The problem is that 70% of this infection in women and 50% in men are asymptomatic and can only be detected through accurate screening test. The nucleotide amplification using PCR technique could be used to amplify one DNA or RNA molecule of the microbe specific gene region that may increase the sensitivity and specificity to detect Chlamydia trachomatis in the &quote;first-catch urine&rdquo;. The aim of this research was to study the accuracy (sensitivity and specificity) of the PCR with Silver Nitrate staining method in comparison to the commercial PCR (Amplicor, Roche) as a standard method. The result was no significant difference (p < 0.05) found in accuracy between PCR Silver Nitrate staining and PCR Amplicor; the sensitivity of PCR Silver Nitrate staining was 85.7% and the specificity was 100%, to detect Chlamydia trachomatis in the &quote;first-catch urine&rdquo;.

Keyword : Chlamydia, trachomatis, urine, PCR, silver, nitrate, screening, test,