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Detection of *Chlamydia trachomatis* in endocervical specimens by an enzyme-linked polymerase chain reaction assay

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### Abstract:

*Chlamydia trachomatis* (CT) is the most common cause of sexually transmitted infections (STI) worldwide and its early detection and treatment can reduce the high morbidity associated with this infection. In this study a sensitive diagnostic polymerase chain reaction (PCR)-based enzyme immunoassay (PCR-EIA) method was developed which detects CT in women with cervicitis. Endocervical swabs collected from 123 women (20-55 years) with cervicitis were tested by both conventional PCR, and PCR-EIA assays, using identical sets of primers to amplify a CT-specific plasmid. For the conventional PCR, amplicons were detected by agarose gel electrophoretic analysis and the PCR-EIA assay used biotin-labeled primers, streptavidin-coated plates, a digoxigenin-labeled probe, and a final enzyme-linked colorimetric analysis (405 nm) was used to measure the CT amplicon. The frequency of positive CT infection by conventional PCR and PCR-EIA assay was 7% and 17%, respectively. The highest frequencies of CT infection were among women of 31-40 years old group (25%). The PCR-EIA limit of detection, calculated by linear regression analysis, was 10 pg of CT DNA ( $r=0.9642$ ). The degree of agreement (Kappa) between the conventional PCR and PCR-EIA method was 0.556 ( $p<0.0001$ ).

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