

**Evaluation of PCR, Serology and Culture
for Diagnosis of *Chlamydia Pneumoniae*
in Respiratory Infections**

By

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(M.Sc., Microbiology 1999)

Thesis

*Submitted for the Degree of Ph.D. in Science
(Microbiology)*

Department of Microbiology

Faculty of Science
Ain Shams University
2007

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تقييم تفاعل البلمرة المتسلسل
والاختبارات المصلية والمزرعة لتشخيص
عدوى الجهاز التنفسي ببكتيريا الكلاميديا نيمونيا

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Approval Sheet

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Abstract

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Evaluation of PCR, Serology and Culture
For Diagnosis of *Chlamydia Pneumoniae* in
Respiratory infection
M.Sc. Faculty of Science, Ain Shams University
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The present study aims to detect the prevalence of *C. pneumoniae* infection among hospitalized young and adult patients with respiratory diseases, as well as evaluation of the usage of PCR for the diagnosis of *C. pneumoniae* infection in comparison to conventional methods as culture and serodiagnosis (ELISA and Immunofluorescence).

The sensitivity of different methods compared in this study showed that Elisa is the most sensitive technique (80/112) were positive.

However, PCR (65/112) were positive, IMF (45/112) were positive and culture (45/112) were positive, show less sensitivity.

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