



MOLECULAR VERSUS CONVENTIONAL DIAGNOSIS OF NEISSERIA GONORRHOEAE INFECTION AND STUDY ITS ROLE IN AZF LOCUS MICRODELETIONS

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Abstract:

Eighty two clinical samples were collected from suspected gonorrhoeae-infected patients (urethra swab and blood sample were taken from each patient). During a period from the beginning of December 2012 to the end of April 2013. In Al-Yarmouk teaching hospital (Baghdad, Iraq) and private laboratories, all of the patients were married and have children compared with 20 samples were taken from apparently healthy control. All samples were bacteriologically examined by traditional methods for detection of *N. gonorrhoea*, 82 isolates were identified by microscopic examination, 76 isolates on Modified Thayer Martin media and 61 isolates by PCR technique targeting Orf1 gene. The results revealed that all samples which give positive results with Orf1 gene yielded negative results for both SY 254 (85pb), BPY-2(90pb) genes. In the present study show no correlation between Y chromosome (AZF locus) microdeletions and *N. gonorrhoea* infection.

Biography:

Ghazwan A. M. Al-Ramahy has work experience at microbiology. Detection of the bacteria by traditional and molecular test. DNA extraction from bacteria, blood and hair. Detection of the gene by PCR technique.



Publication of speakers:

1. Alam, M.A., Miah, M.R.A., Rahman, M., Sattar, H. and Saleh, A.A. 2002. Antimicrobial susceptibility pattern of *Neisseria gonorrhoeae* isolated from floating female commercial sex workers in Dhaka, Bangladesh. *Journal of Infectious Diseases and Antimicrobial Agents*, 19 (3), 93-99.
2. Al-Janabi A.; Abdul Jubair; Suma Pemmaraju; Parul Pruthi; Vikas Pruthi. 2014. The role of bacterial infections on male infertility in Al-Anbar province of Iraq. *International Journal of Medical Science and Public Health*. Vol. (3). Issue 1.
3. Alsaedi, M. K. A. 2013. Molecular Detection of Virulence *rmp* Gene in *Neisseria gonorrhoeae* Isolated from Adult patients. Master Thesis, Institute of Genetic Engineering and Biotechnology for Higher Education, University of Baghdad.
4. Jorgensen JH, Tenover FC, eds. *Manual of Clinical Microbiology*, 8th edn. Washington: American Society Microbiology; 585-608.

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