

# ISOLATION & CHARACTERIZATION OF *PORPHYROMONAS GINGIVALIS* AND DETERMINATION OF SOME IMMUNOLOGICAL ASPECTS IN PATIENTS WITH PERIODONTITIS

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## ABSTRACT

Bacteriological and immunological study was done on 150 patients with severe periodontitis at the period from 1- 10-2010 to 1-6-2011in (College of Dentistry). the number of samples gave positive results for growth of *Porphyromonas gingivalis* on blood agar were 35 sample ( 23.3%) while 115 samples (76.7%) gave appositve growth for others bacteria like *Streptococcus mutans* .The results of immunological study on serum of patients gave positive culture of *P. gingivalis* showed increasing in all immunological testing parameters including concentration of immunoglobulin's such as ( IgM, IgG, IgA) , complement (C3&C4) , total protein comparing with healthy individual (20 person) whom didn't have periodontitis and gave a normal results to all tested parameters .

**KEYWORDS:** *Porphyromonas gingivalis*, *Streptococcus mutans*, IgM, IgG, IgA