البحث الثاني وعنوانه:

2-Impact of IL-8 Gene promoter polymorphism 251T>A in family history and severity of acne vulgaris in Egyptian patients.

تاثير الانترلوكين 8 محفز الجينات متعدد الاشكال 151 T>A على تاريخ الاسرة المرضى وشده حب الشباب في المرضى المصريين على تاريخ الاسرة المرضى وشده حب الشباب في المرضى المصريين (Turopon Journal of Phormocoutical and Modical Poscoroh2019) vol 6#issue

European Journal of Pharmaceutical and Medical Research2019\ vol 6#issue 6:pages 34-39

Background: Acne vulgaris (AV) is a common multifactorial inflammatory disease of the pilosebaceous unit (PSU) affecting >80% of individuals at some time during their lives. Endogenous as well as exogenous factors underlie the pathogenesis of AV. Genome-wide association studies have shown that genetic factors play an important role in the aetiology and pathogenesis of AV. IL-8 induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of infection, IL-8 also induces phagocytosis once they have arrived. Aim of the work: This study aimed to detect the functional relationship of IL-8 gene polymorphism with AV and its severity, by detection the association of IL-8-251T>A polymorphism with AV in Egyptian population. Patient and Methods: A total of 200 subjects were analyzed in this case control study. They were divided into two groups: 100 patients with different degrees of AV, and 100 subjects healthy controls. The diagnosis of acne was based on physical examination, and Global Acne Grading System. The genotyping for IL-8 gene was performed by polymerase chain reaction (PCR) and restriction fragment length polymorphism (RFLP). Results: Our study showed that AA genotype (mutant genotype) was higher among cases, while TT genotype (wild genotype) was higher among controls with p <0.05. Higher percentage of A- allele (58%) was found among cases, and higher percentage of T- allele (63%) was found among controls with p<0.05. Also, our study found that AA genotype was significantly higher among patients with positive family history while TT genotype was significantly higher among patients with negative family history with p = 0.001. And as regards degree of disease severity, higher percentage of severe acne had AA genotype but higher percentage of mild acne had TT genotype with p <0.05. Conclusion: Our study revealed that there is a significant link between IL-8-251T>A single nucleotide polymorphism (SNP) and AV incidence and severity.