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**ORIGINAL ARTICLE**

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Cytokines profiling as prognostic markers in newly diagnosed acute myeloid leukemia

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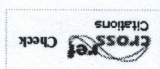
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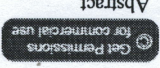
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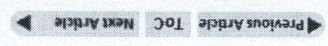
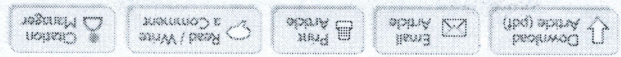


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Abstract

**Background:** Acute myeloid leukemia (AML) is a common acute leukemia in adult. Recent studies have shown that cytokine systems influence leukemic cell biology and clinical investigations. Among various cytokines, interleukin-6 and interleukin-10 (IL-6 and IL-10) participate an essential function in progression of the disease. **Objective:** The aim of this study is to quantify of IL-6 and IL-10 levels in AML patients who are newly diagnosed and evaluate lipid profile to assess the relationship between lipid profile level and body mass index (BMI) in myeloid leukemic patients. **Materials And Methods:** Samples were collected from 45 patients with AML from AL-Yarmouk Teaching Hospital in addition to another 45 healthy individuals were served as a control group during a period from October 2015 to October 2016. Patients ages ranged from 40 to 60 years. IL-6 and IL-10 were measured in all patients before any treatments and compared with control group. **Results:** There was an increase in age, white blood cell, and hemoglobin in AML patients as compared to control, but it was not significant. There was a significant increase in neutrophils and lymphocyte count, ( $P = 0.001$ ). Furthermore, there was an increase in BMI, fasting blood sugar, and lipid profile except high-density lipoprotein cholesterol for AML patients as compared to controls ( $P = 0.001$ ).



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**Cytokine gene polymorphisms in Iraqi Arabs.**

Ad'iah AH<sup>1</sup>, Ahmed ZA<sup>2</sup>, Al-Naseri MA<sup>3</sup>, Salman ED<sup>4</sup>, Al-Saffar OB<sup>5</sup>, Ahmed HS<sup>6</sup>, Hussain TA<sup>2</sup>, Idan EM<sup>2</sup>, Hassan IB<sup>7</sup>, Shihab BA<sup>2</sup>, Mohammed LO<sup>8</sup>, Al-Nasiri FS<sup>9</sup>.

**Author information****Abstract**

In this report, 224 unrelated healthy Iraqi Arabs (102 males and 122 females) were genotyped for 22 SNPs (single nucleotide polymorphisms) belong to 13 cytokine genes (IL1A, IL1B, IL1RA, IL1R, IL2, IL4, IL4R, IL6, IL10, IL12, IFNG, TNFA and TGFBI). The method of detection was PCR-SSP (polymerase chain reaction-sequence specific primer). The data were presented in terms of allele and genotype frequencies. Two-locus haplotype frequencies were also estimated for some SNPs. Genotype frequencies of detected cytokine gene polymorphisms are available in the Database of Allele Frequencies Net under the AFND number 3422 and the population name "Iraq Arab Cytokine".

**KEYWORDS:** Cytokine; Haplotype; Iraqi Arabs; SNPs

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