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## Peculiarities of the course of Juvenile Arthritis depending on the polymorphism of Proinflammatory Cytokine genes

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**Introduction:** The change in the nature of treatment led to a significant change in the course of juvenile idiopathic arthritis (JIA). Among the DMARDs, the antifolate drug methotrexate (MTX) retains its positions. The main therapeutic targets for biological therapy are pro-inflammatory cytokines (interleukin 1, 6 (IL-6), tumor necrosis factor  $\alpha$  (TNF- $\alpha$ )). The dependence of the course and possibilities of JIA therapy on genetic features has not been studied enough.

**Conclusion:** The study of the genes IL6(G-174C), TNF $\alpha$ (G308A) and MTHFR may suggest some features of the course of the disease, which may allow optimizing and individualizing its treatment.

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