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Cytokine Status in Patients with Dental Implants

Ramazonov H. H.
Bukhara State Medical Institute Named After Abu Ali Ibn Sino

Relevance. Inflammatory diseases of dental implantation occupy a significant share in the prevalence of dental pathology. It is known that the pathogenesis of peri-implantitis is associated with dysfunction of dental implantation. To date, local symptomatic treatment of peri-implantitis and ongoing correction of the general somatic disease are insufficient, since these patients cannot achieve stable remission. The study of cytokine levels can largely determine the nature of the course and outcome of the disease.

The aim of the study was to investigate the levels of pro– and anti-inflammatory cytokines in peri-implantitis.

Materials and methods. 52 patients with peri-implantation were divided into 2 groups: 1 – 30 patients in remission, 2 - 22 patients in the acute stage. The comparison group included 20 conditionally healthy volunteers. The content of interleukin(IL)-1b, IL-6, TNFa and IL-10 was determined in blood using enzyme immunoassay reagents from Vector-Best (Russia) using a BMG Labtech device (ClarioStar, Germany).

Results. A significant difference in the levels of IL-1b, IL-6, TNFa was obtained between the groups of patients with peri-implantitis and the comparison group with the maximum content of the studied cytokines in acute peri-implantitis. The level of IL-10 was significantly lower in acute peri-implantitis than in the other groups. TNFa was detected in the blood of only 25% of the subjects in the comparison group. **Conclusion.** The study of pro-inflammatory and anti-inflammatory cytokinins in blood serum, along with the clinical picture, can serve as an additional diagnostic tool for assessing the severity of the inflammatory process in these patients, which allows us to consider the use of this method in practical dentistry for dynamic patient monitoring and further improving the effectiveness of treatment.

USED LITERATURE:

1. Безверхов Ю.Н. Новый медикаментозный метод борьбы с воспалительными осложнениями в дентальной имплантологии // Новые технологии в физиотерапии. – М., 2002. – С.49-51.
2. Болотонова М.Н., Орлов А.А., потемкин А.В. Коррекция аутоиммунных состояний с целью устранения патологических звеньев, препятствующих физиологическому остеогенезу // Стоматология .2010. .С.31-32.
3. Браун А., Краузе Ф., Хан Г. Субъективные болевые ощущения при лечении пародонта

системой Вектор // Клин. стоматол. – 2002. – №4. – С. 25-31.

4. Браэрмайстер К.Д. Микробиологическая диагностика заболеваний парадонта // Новое в стоматологии. – 2003. – №7. – С. 62-64.
5. Герасимович И.С. Применение высоких технологий как основа эффективного управления качеством пародонтологической помощи // Клин. стоматол. – 2003. –№1. – С. 72-76.