

LONGITUDINAL MONITORING OF PERI-IMPLANT MICROCIRCULATION AS AN INDICATOR OF IMPLANT STABILITY AND PROSTHETIC SUCCESS

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Abstract

By now time accumulated enough extensive experience in using the orthopedic method treatment of defects dental rows with support on implants. However, despite for certain achievements V region implantology, the incidence of complications remains high. When using prosthetics with the use of implants causes changes in the condition of the gums.

Introduction

Goals our works: study clinical state soft fabrics peri-implant region in patients with partial defects of the dentition before and after prosthetics with implant-supported structures. Research peculiarities state microcirculation V fabrics gums V region implantation estimate the nature of morphofunctional changes before and after orthopedic treatment.

Orthopedic treatment carried out With using metal-ceramic single crowns Prosthetics were performed according to generally accepted methods.

Dynamic observations behind condition microcirculation V peri-implant fabrics were carried out before And through 1, 3 week And 1, 3, 6 months after prosthetics.

The study of microcirculation in periodontal tissues was carried out using laser Doppler flowmetry using the LAKK-01 apparatus (NPP "Lazma") The state of microcirculation was assessed by indicator microcirculation (M); parameter – σ , coefficient variations (K_v). Also the level of vasomotion (A_{LF}/σ) and vascular tone were determined (σ/ALF), high frequency (A_{HF}/σ) And pulse fluctuations (A_{CF}/σ) tissue blood flow, index fluxmotion (IFM), as well as intravascular resistance (A_{CF}/M).

For quantitative estimates character And intensity morphofunctional changes V mucous membrane In the gingival shell of the peri-implant area, a cytomorphometric method was used to determine the destruction index indicators (ID) and inflammatory-destructive index (VDI). Fence material for Cytomorphometric research was carried out using the imprint method from the gum surface in the area of implantation.

The average values of the ID and VDI indicators, which correspond to different states of soft tissues, are as follows: ID = 0–550, VDI = 0–20 – normal state ; ID = 550–900, VDI = 21.0–50.0 – mild inflammation; ID = 900–2000, VDI = 9.0–50.0 and above – moderate inflammation.



Conclusions

Analysis indicators microcirculation before And after implantation allows count, What restoration of tissue blood flow occurs 4 months after implantation. Examination of LDF data suggests that V answer on functional load after prosthetics through 1 a week V fabrics gums noted height capillary blood flow, which corresponds to the development of hyperemia in the microvasculature. Normalization of hemomicrocirculation occurred by the first month after prosthetics. Results of cytomorphometric study confirmed indicators LDF O reactive change state fabrics gums, which manifested itself in in the form of an increase in the index of destruction and inflammatory-destructive index 2 weeks after prosthetics (ID = 890.5; VDI = 58.5). Decline indexes before normal indicators happened To 1 month after prosthetics (ID = 552.6; VDI = 222.2).

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