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CHANGES IN THE JAW AND FACE BONE AFTER TEETH LOSS

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Diagnosis is exceptionally important when planning any therapy, including the necessity of implantological treatment. Replacing existing teeth or removable dentures with implant-supported fixed prosthetic constructions often requires the restoration of the alveolar ridge height. In some cases, it is necessary to increase the interalveolar distance (IAD) and normalize the ratio of the alveolar arches. Significant attention should be paid to the appearance of the middle and lower thirds of the face and the possibility of its improvement with the planned prostheses. As is known, complete tooth loss and long-term use of removable dentures often lead to a progressive, characteristic change in the patient's facial expression, which is often associated with aging (Fig. 1). Similar to the modeling of a complete removable denture, when creating a complete implant-supported fixed denture, all factors that may affect the functioning of the dentoalveolar system should be considered. First of all, this concerns the formation of an adequate occlusal scheme, ensuring the normal functioning of the temporomandibular joints and diction.

At the planning stage, it is necessary to carefully analyze the clinical situation. The only factor determining the choice of implant type is the available bone volume. Currently, in addition to examination and palpation of facial structures for their assessment, radiation diagnostic methods can be used. In particular, a three-dimensional radiograph of the head and cone-beam computed tomography (CBCT) allow obtaining volumetric images of the structures under investigation. Furthermore, with the help of these images, it is possible to plan implant placement and prosthetics using virtual modeling tools. The continuous improvement of software further expands the possibilities of diagnosis and planning by integrating data from radiological examinations. This significantly facilitates immediate loading and allows the use of a complete digital protocol.

Physiological Consequences of Tooth Loss. Tooth loss inevitably leads to progressive changes in the bone tissue of the jaws, which is associated with the cessation of its functional stimulation. However, the rate and direction of bone volume reduction are highly individual and depend on the patient's age, the presence of general and local pathology, and previous dental treatment. The duration of edentulism and the use of removable dentures have a particularly significant impact on bone atrophy. Moreover, insufficient adaptation of such a

prosthesis to the soft tissues is often associated with very rapid bone resorption, which is not observed with fixed constructions. Regardless of the cause of tooth loss, the healing of the socket is accompanied by remodeling of its walls with a gradual reduction in the volume of the alveolar ridge in the corresponding area, and the vestibular cortical plate undergoes the most pronounced resorption. Often, the ridge thickness decreases within the first 3 months after tooth extraction.

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