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## Mogućnosti uporabe ksenogenoga koštanog usatka u dentalnoj implantologiji

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U rekonstrukciji koštanih defekata upotrebljavaju se autologni (autogeni), alogeni (homologni), ksenogeni (heterogeni) i aloplastični (sintetski) koštani usadci.

Ksenogeni i aloplastični materijali danas su jedni od najčešće rabljenih materijala za rekonstrukciju koštanih defekata u oralnoj kirurgiji. Ksenogeni materijali proizvode se iz neorganskoga dijela životinjskih kostiju, a djeluju tako da potiču proces oseokondukcije. Karakterizira ih nastajanje nove kosti, apozicijom okolne kosti i diferenciranih mezenhimalnih stanica u avitalni koštani usadak. U radu je prikazano nekoliko slučajeva mogućnosti uporabe ksenogenoga materijala:

1. Uporaba ksenogenoga materijala kod gubitka bukalne stijenke gornjeg alveolarnoga grebena
2. Uporaba ksenogenoga materijala kod lateralnoga sinus liftinga
3. Uporaba ksenogenoga materijala nakon ekstrakcije zuba, cistektomije i imedijatne implantacije
4. Uporaba ksenogenoga materijala kod nedostatne visine i širine gornjeg alveolarnoga grebena
5. Uporaba ksenogenoga materijala nakon gubitka kosti zbog komplikacije nastale neadekvatnom implantacijom.

Prikazani slučajevi upotrebe ksenogenoga koštanog usatka potvrdili su njegovu veliku uporabnu vrijednost u rekonstrukciji različitih vrsta koštanih defekata.

## Possible Application of Xenogeneic Osseous Implants in Dental Implantology

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In the reconstruction of bone defects use is made of autologous (autogenous), allogeneic (homologous), xenogeneic (heterogeneous) and alloplastic (synthetic) osseous implants.

Xenogeneic and alloplastic materials are today some of the most frequently used materials for the reconstruction of bone defects in oral surgery. Xenogeneic materials are produced from inorganic animal bones and have the effect of stimulating the process of osseointegration. It is characterised by the formation of new bone by apposition of adjacent bones and differential mesenchymal cells in the non-vital bone implant. The paper presents several cases of possible application of xenogeneic material:

1. Application of xenogeneic material in the case of loss of the buccal wall of the upper alveolar ridge.
2. Application of xenogeneic material in lateral sinus lifting.
3. Application of xenogeneic material following tooth extraction, cystectomy and immediate implantation.
4. Application of xenogeneic material in the case of insufficient height and width of the upper alveolar ridge.
5. Application of xenogeneic material following the loss of bone due to complications caused by inadequate implantation.

The presented cases of the application of xenogeneic osseous implant confirm the value of its comprehensive use in the reconstruction of various bone defects.