Alveolar ridge augmentation with hydroxylapatite using fibrin sealant for fixation. Part I: An experimental study.

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Abstract:

Histological studies in animals have shown that fibrin sealant can be employed as a resorbable, biological binding agent for fixation of initially mouldable hydroxylapatite (HA) implants. Mixing HA granules with a 2 component fibrin sealant from which thrombin solution has been diluted to 1 IU/ml provides a simple method for obtaining mouldable implants. During insertion of the HA granules, the sealant prevents dislocation and migration, and on solidification, the moulded implant securely retains its shape and position until connective tissue ingrowth is complete. The use of polygonal granules permits a constant implant contour from the very beginning.