Biphasic osteoconductive polymer scaffolds for mandibular bone reconstruction

By Verena Bernadette Mauritz

Shaker Verlag Apr 2014, 2014. Taschenbuch. Book Condition: Neu. Neuware - Accounting for one third of the face, the mandible is one of the most influential anatomical facial regions. Playing a major role for the vital functions such as chewing and speaking as well as for the facial appearance, any mandibular deformation or discontinuity implicates serious impairments for the affected patients. As the majority of mandibular defects are classified as critical size defects, a spontaneous healing cannot be expected, thus leading to surgical interventions. To restore the patient's mandible functionally and aesthetically, various reconstructive methods have been developed within the centuries, including alloplastic materials, autografts and distraction techniques. But despite this broad spectrum of techniques and the fact that no case remains untreated in nowadays, oral maxillofacial surgeons still emphasize indications where the currently available treatment methods are either not sufficient, do not render the desired outcome or can simply not be justified due to the 2nd medical intervention. In order to offer an effective and innovative solution, these cases were further specified through a treatment gap analysis. Based on the detected clinical need, this thesis aimed for the development of a synthetic osteoconductive polymer scaffold. Based on CT-data of...

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