Reconstruction of Cranial Bone Defects Using Alloplastic Implants Produced from a Stereolithographically-generated Cranial Model

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Abstract

Larger cranial bone defects can cause cranial disfigurement as well as potential mechanical brain trauma. Conventionally pre-fabricated acrylic cranioplasty implants require complicated procedures and result in potential dimensional and contour inaccuracies. The development of stereolithographic techniques for generating acrylic resin skull models allows the pre-fabrication of custom acrylic resin cranial implants with greater clinical predictability.

Key words: Cranioplasty, Implant, Stereolithography

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