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**ABSTRACT  
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TITLE	<b>Application of computer assisted individual design in the treatment of maxillofacial deformity</b>
Author(s)	<u>Bin Bo</u> , Shizhu Bai, Lisheng He, Jinglong Zhao, Yanpu Liu, Hongtao Shang. Department of Maxillofacial Surgery, School of Stomatology, The Fourth Military Medical University, Xi'an 710032, China
Abstract:	<p>Application of computer assisted individual design in the treatment of maxillofacial deformity. Bin Bo, Shizhu Bai, Lisheng He, Jinglong Zhao, Yanpu Liu, Hongtao Shang. Department of Maxillofacial Surgery, School of Stomatology, The Fourth Military Medical University, Xi'an 710032, China.</p> <p>3 case of zygomaticomaxillary complex deformity patients were treated based on the reversed engineering and rapid prototyping technology . An ideal 3D resin model of the midfacial skeleton were produced with the reconstructed dummy data by coping the CT data of the normal half side of the midfacial skeleton to that of abnormal half side. The reduction plates and templates were made based on the ideal 3D model, which were applied in the surgery to guide the reduction and fixation of the osteotomied segments of zygomaticomaxillary complex. After surgery, the midfacial morphology of all 3 cases were satisfactory .</p> <p>Key words: Maxillofacial deformity ; Reversed engineering ; Rapid prototyping ; Customized reduction plat</p>