

## Virtual surgical planning in maxillofacial surgery/reconstruction

Assistant professor Emil Dediol, MD, PhD, Medical school, University of Zagreb, Croatia, Department of maxillofacial surgery, University Hospital Dubrava, Zagreb, Croatia

Our aim was to define indications for the use of virtual surgical planning (VSP) in maxillofacial surgery. In the study are included patients operated at the Department for Maxillofacial Surgery, University Hospital Dubrava, Zagreb in the period of 2016 til 2022. Also the technique of preoperative planning was assessed. The main indications where we used VSP were mandibular reconstruction, reconstruction of the maxilla, soft tissue reconstruction, orbital reconstruction and orthognathic surgery. Cases of every indication are presented and discussed in detail. In this period all the patients were being planned completely by virtual surgical planning (VSP) utilising special software, CT scans and scanned dental models. With VSP the aesthetic appearance of the patient dramatically improved because planning of the reconstruction is precise and predictable and the surgery is also less time consuming .