Microvascular surgery following tumor resection has become an important field of oral maxillofacial surgery (OMFS). Following the surveys on current reconstructive practice in German-speaking countries and Europe, this paper presents the third phase of the project when the survey was conducted globally. The DOESAK questionnaire has been developed via a multicenter approach with maxillofacial surgeons from 19 different hospitals in Germany, Austria and Switzerland. It was distributed in three different phases to a growing number of maxillofacial units in German-speaking clinics, over Europe and then worldwide. Thirty-eight units from Germany, Austria and Switzerland, 65 remaining European OMFS-departments and 226 units worldwide responded to the survey. There is wide agreement on the most commonly used flaps, intraoperative rapid sections and a trend towards primary bony reconstruction. No uniform concepts can be identified concerning osteosynthesis of bone transplants, microsurgical techniques, administration of supportive medication and postoperative monitoring protocols. Microsurgical reconstruction is the gold standard for the majority of oncologic cases in
Europe, but worldwide, only every second unit has access to this technique. The DOESAK questionnaire has proven to be a valid and well accepted tool for gathering information about current practice in reconstructive OMFS surgery. The questionnaire has been able to demonstrate similarities, differences and global inequalities.