

State of the art of the sinus lift procedure

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Looking at the various statistical analysis, one might assume that actually there is neither any need nor any possibility to further optimise the sinus lift procedure - because the results reported are excellent anyhow.

It is beyond doubt that the sinus lift has become a routine procedure in recent years. However, detailed review of the current state-of-the-art reveals that there are still a number of unresolved factors and issues affecting the prognosis of this procedure. In addition, we must be aware that early or late failure of this intervention will have much more adverse consequences for the patients than a simple loss of an implant.

At the University Clinic of Dentistry of Vienna, investigations and evaluations of the effectiveness of the sinus lift procedure have been conducted since 1986. Since that time, related anatomical, experimental and clinical studies have been performed. Initially, these included macro- and microanatomical investigations as well as studies of the vascular supply of the affected soft tissue. The clinical efficiency of the sinus lift technique has been assessed in a number of endoscopic, histological, clinical and radiological (CT-Scan) investigations. Multiple in vitro examinations as well as clinical and animal experimental studies were performed to evaluate the local bone regeneration potential in this anatomical region. The suitability of various bone grafts and bone replacement materials has been continually evaluated in animal models. The platelet-rich plasma technique (PRP) or the enrichment and addition of stem cells was analyzed in cell-culture, animal experimental and clinical studies.

Based on all these investigations, it appears possible to offer optimised guidelines and advice for improving the therapeutic concepts of this treatment method and to recommend strategies for the management of complications.

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Curriculum vitae

- 1970 MD degree, Medical School, University of Vienna
- 1973 Speciality board examination in dentistry (DDS)
Residency at Dept. of Oral and Maxillofacial Surgery, University of Vienna
- 1976 Fellowship at Columbia University, New York
- 1978 Residencies at Neurosurgery and ENT Department, University of Vienna
- 1979 Speciality board examination in Oral and Maxillofacial Surgery
Appointed senior resident
- 1982- Head of Department of Oral Surgery, School of Dentistry,
University of Vienna
- 1983-2003 President of the Austrian Society of Oral Surgery and Implantology
- 1987-1989 Chairman of the School of Dentistry of the University of Vienna
- 1989-1993 President of the Austrian Society of Dentists and Stomatologists
- 1991 Honorary member of the Hungarian Society of Dentists and Stomatologists
- 1994-1997 Visiting Professor at the University of Pennsylvania
- since 1998 Chairman of the School of Dentistry of the Medical University of Vienna
- 2003 - 2004 President of the European Association for Osseointegration (EAO)
- 2003 Honorary member of the German and Czech Society of Implantology
- 2006 Associated Editor of the International Journal of Oral & Maxillofacial Implants (JOMI)

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