

CLINICAL APPLICATION OF ZIRCONIA ORAL IMPLANTS

Ralf Kohal

UNIVERSITÄTSKLINIKUM FREIBURG

Department für Zahn-, Mund- und Kieferheilkunde Klinik für Zahnärztliche Prothetik, Germany

Keywords: Dental implant, zirconia implant, clinical application, in vitro, safety

Zirconia oral implants are applied clinically for many years. Meanwhile, companies producing zirconia implants recognized the necessity to perform clinical investigations to demonstrate the safety and longevity of their implants. The present lecture would like to elaborate among else on the clinical application of zirconia oral implants and present an update of the scientific background of zirconia implants, also from in-vitro laboratory and animal investigations. The short term results of certain zirconia implants are promising with implant survival rates similar to titanium implants. Furthermore, it seems that the bone remodeling in the short and mid-term is comparable to the one seen around titanium implants. Nevertheless, long-term data comprising a duration of more than five years of recall are scarce yet.