





My Clinical Background • I am a trained Swiss Oral Surgeon • Single degree Oral Surgeon, 3-year specialty program for dentists • Swiss Oral Surgeons are surgical specialists somewhere between an OMFS and a Periodontist • They think in smaller flap dimensions and fine surgical techniques • They are used to collaborate with restorative dentists and periodontists • Our department treats 550+ implant patients per year • 750 to 800 implants are placed, mostly in partially edentulous patients • I personally treat about 150 patients per year • My personal experience is now 30+ years with more than 5'000 patients • I always work in a Team Approach with a Prosthodontist or a GP



TOPICS-Day 1

- Factors influencing the long-term stability of dental implants
- Surgical procedures in posterior sites: Standard implant placement with or without flap elevation
- Surgical procedures in posterior sites: Implant placement with GBR
- Implant placement and sinus floor elevation: Lateral window vs. Osteotome technique, when simultaneous, when staged?
- Prosthetic planning and restorative principles in posterior sites
- Fundamental esthetic principles revisited in the context of anterior maxillary implant restorations - a critical appraisal
- Esthetic risk assessment and basic surgical principles in esthetic sites
- Prosthetic handling of esthetic challenges: case reports

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TOPICS-Day 2



- Implant placement post extraction with simultaneous contour augmentation using GBR: When immediate, when early, when late?
- CAD-CAM technology and zirconia: new opportunities for esthetic single-tooth restorations
- Complex GBR pocedures
- Prosthetic handling of compromised sites and extended edentulous spaces in the anterior maxilla
- Surgical handling of esthetic implant failures
- Pink ceramic to compensate peri-implant soft tissue deficiencies

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Implant Dentistry Today I



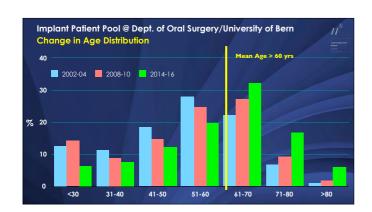
- Today, we are in a phase of routine application of implant therapy
- In our department, we treat more than 550+ patients per year with roughly 750 to 800 implants per year
- More than 90% of our patients are partially edentulou
 √ The single tooth replacement is the no. 1 indication (> 50%)
- ✓ Average of 1.40 implants per patients
- Most patients belong to the baby boomer generation
 - √ The average age of our patients is roughly 63 years

- ✓ Many patients have a compromized dentition or anatomy
 ✓ Less than 10% of our patients has age <30 (most trauma patients)
 When providing implant therapy, it's a must to offer successful long-term
- outcomes

 √ We always aim at a long-term success of 30+ years

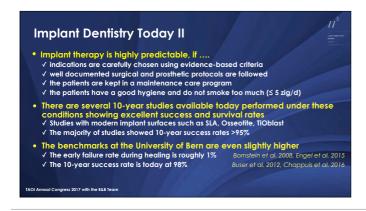
britter, Harnisch, Buser: Current indications and surgical procedures in implant dentistry. A retrospective 3-is of 1'206 patients receiving 1'817 implants in a referral clinic. Int J Oral Maxillofac Implants 20: 1109-1116 herapy in a Surgical Specialty Clinic: An Analysis of lures, Int J Oral Maxillofac Implants 30:151–160 , 2015 Change in Age Distribution ents of age > 60 are often promised and have one or ral risk factors 40 Medical risk factors Dental risk factors 30 Anatomic risk factors Smoking, however, is not so frequent in this age group

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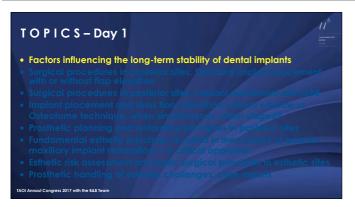














Current Objectives of Implant Therapy • Successful outcomes from an esthetic and functional point of view • Esthetic outcomes with long-term stability • A low risk of complications during healing and during function • Primary Objectives • The least number of surgical interventions to reduce invasiveness • The least possible pain and morbidity • Short healing and overall treatment periods • Treatment with good cost-effectiveness • Secondary Objectives

Our Benchmark for Implant Success Rates Low failure rates during healing Early failure rate during healing around 1% Bornstein et al. 2008, Engel et al. 2015 High success rates in long-term studies 97% in a 10-year study with SLA surface solid screw implants Buser et al. 2012 Failure rates for heavy smokers are higher These success rates are a strong marketing tool for the acquisition of referrals We have more than 100 referring dentist The fundamental success factors of our business are (a) top treatment quality, and (b) a top service quality for the patient and the referring dentist I do a lot of marketing with public lectures (Senior University, Rotary Club, Lions Club, Kiwanis Club etc.)

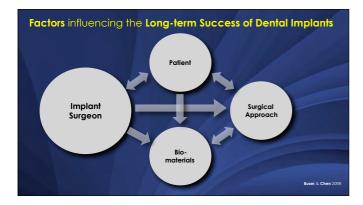
Clinical Studies at the University of Bern in the past 27 Years: Excellent Long-term Results

Buser, Weber, Long: Tissue integration of non-submerged implants. 1-year results of a prospective study with 100 ITI hollow-cylinder and hollow-screw implants. 100: Toll rod implants Res 1: 33, 1970.

Buser, Weber, Brügger, Batisger: Tissue integration of one-stage III implants. 3-year results of a longitudinal study with hollow-cylinder and hollow-screw implants. Bernards, Bernards, Edit Res 1: 33, 1970.

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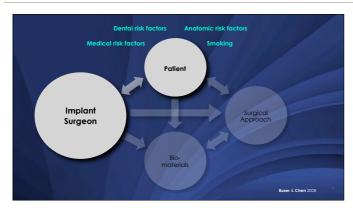
Bornstein, Lussi, Schmid, Belser, Luss, Buser: Early loading of Itlantium implants with a sandblasted and acid-etched (SLA) surface: 3-year results of a prospective study in partially edentificated in the prospective study in partially edentificated surface; 3-year results of a prospective study in partially edentificated surface; 3-year results of a prospective study in partially edentificated surface; 3-year results of a prospective study in partially edentificated surface; 3-year results of a prospective study in partially edentificated surface; 3-year results of a prospective surface; 3-year results of a prospec

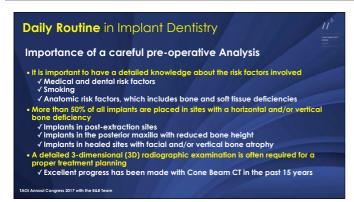


Key Elements for Long-term Success of Dental Implants Careful pre-operative analysis of a given patient Establish the risk profile of the patient Choose the correct surgical approach Understand the tissue biology Choose an appropriate implant with a good scientific documentation Insert the implant in the correct 3D position and axis Restoration driven implant placement Make sure that the implant is fully embedded in bone of sufficient volume In case of a bone deficiency, rebuild the bone with GBR or SFE Make sure to have a wide boand of keratinized mucosa (KM) If KM is lacking, reestablish it with a soft tissue graft Establish an efficient supportive care program with a dental hygienist Try to convert every patient into a dlow risk patients

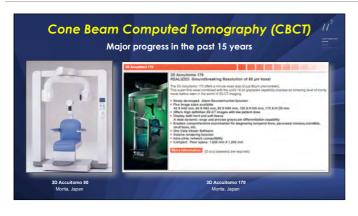
Basic Principles of Implant Surgery • Select an appropriate implant type ✓ Implant diameter and length ✓ Implant shape and surface • Insert the implant in a correct 3D prosthetic position ✓ Restoration-driven implant placement ✓ The implant must achieve primary stability • The implant must be completely imbedded in healthy bone ✓ Facial and oral bone walls should be at least 1 mm ✓ In case of a local bone deficiency → GBR • The implant should be surrounded by healthy and kerafinized mucosa

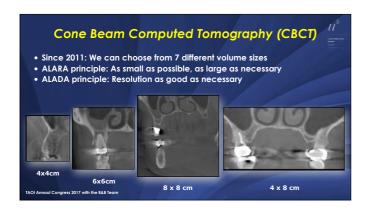




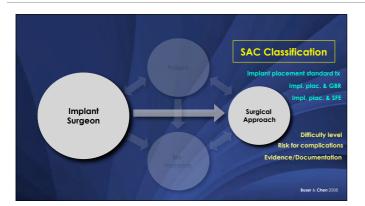




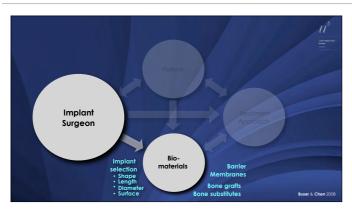


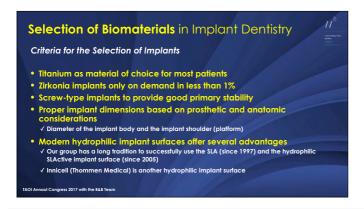






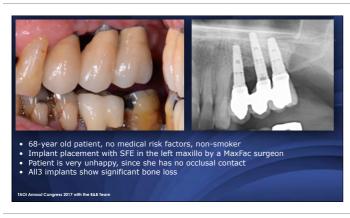








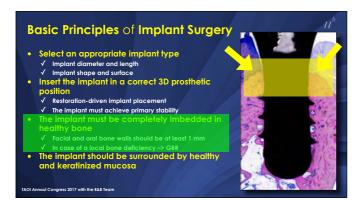




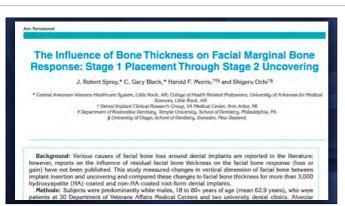


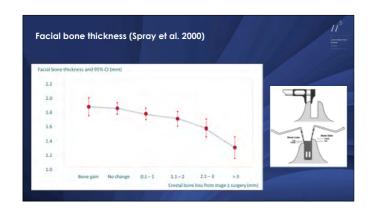




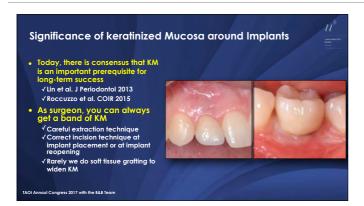


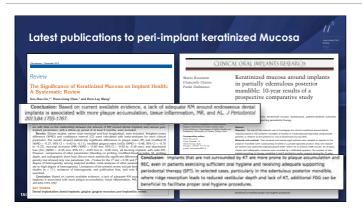




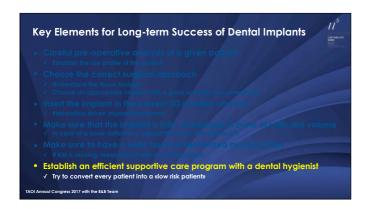


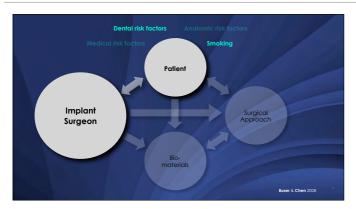


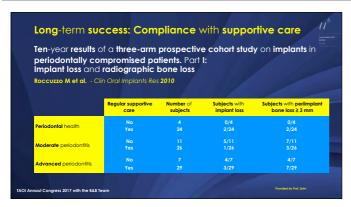














Supportive Care Program and Oral Hygiene	U b
 The dentist must keep the patient in a supportive care program The frequency of recall visits depends on the patient's risk profile Y Every 6 months in patients with a standard risk profile Y Every 3 to 4 months in patients with increased risks (heavy smokers, perio 	
patients, diabetes etc.)	
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Conclusions: Long-term Stability of Dental Implants I It is important to follow well established surgical and prosthetic protocols to achieve successful outcomes with high predictable Most often, we can utilized evidence-based methods Sometimes, we need to follow common sense For every patient, you need to examine with a careful pre-operative analysis Establish the risk profile of every patient Implant therapy is not always the best option in a given situation Choose an appropriate implant to achieve your goals The implant should have a sufficient diameter and length The implant should have a modern, hydrophilic surface Insert the implant in a correct 3D position Follow restoration-driven implant placement

Conclusions: Long-term Stability of Dental Implants II • Make sure that implant circumferentially embedded in bone with sufficient volume ✓ The micro-rough implant surface must be inside the bone ✓ The tacial bone wall should be >1.5 mm at implant placement ✓ In case of a bone defect, rebuild the bone with GBR or SFE • Choose an appropriate healing modality ✓ Submerged or non-submerged healing • Make sure that implant is located in a sufficient band of keratinized mucosa (KM) • Choose an appropriate healing period • Make sure that the implant patient is kept in a sufficient supportive care program ✓ The frequency of recall visits is adapted to the risk profile