

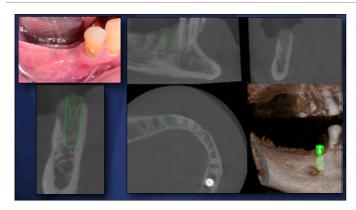


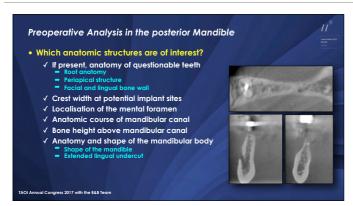
Secondary Objectives of Implant Therapy Reduce the number of surgical procedures Whenever possible, we use implant placement with simultaneous bone graffing procedures Reduce morbidity for the patient Avoid bone harvesting from the chin or from the retromolar area as much as necessary Avoid harvesting of connective tissue grafts from the palate as much as necessary Use flap-less implant placement, whenever the anatomy allows for it Reduce healing periods and overall treatment time Utilize autogenous bone chips with a high osteophylic potential Utilize autogenous bone chips with a high osteogenic potential to accelerate bone healing

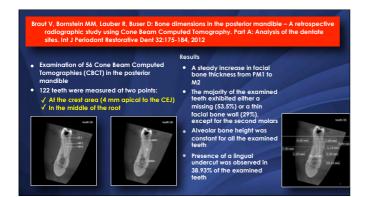




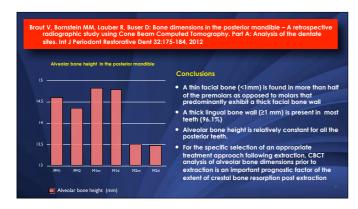




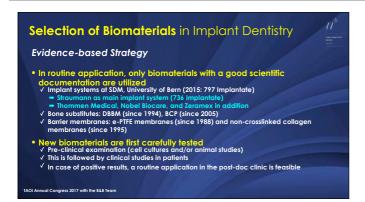


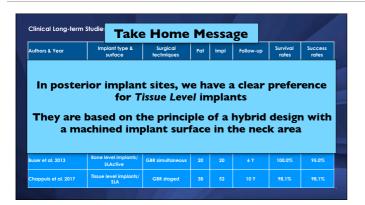




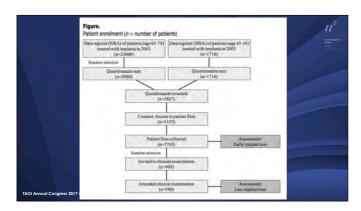






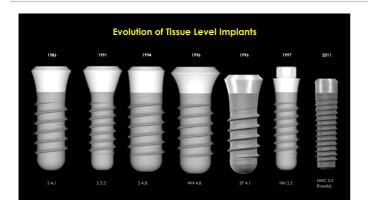


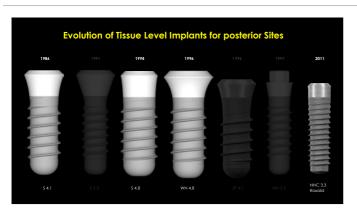


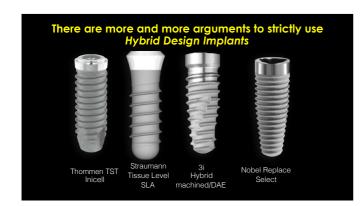




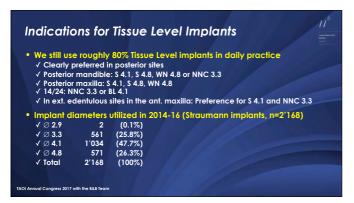
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Table 4. Factors Associated with Moderate/Severe Peri-implantitis' at the 9-y Examination: Patient-level Regression Analysis (n = 427).					
		Odds Ratio	95% Confidence Interval	P Value	
Periodont	al status (at 9-y examination)				
Healthy		AC.			
Periodo		4.08	1.88 to 8.86	<0.001	
Edentul	ous	1.64	0.75 to 3.59	0.219	
No. of im	plants placed				
<4		4			
≥4		15.09	6.17 to 36.88	<0.001	
Prosthetic	therapy				
Specialist		1			
General practitioner		4.27	1.76 to 10.41	0.001	
Implant be					
S S	traumann = Tissue Level Implant	1.1			
NB N	obel Biocare = Bone Level Implant	3.77	1.60 to 8.87	0.002	
	stra Tech = Bone Level Implant	3.55	1.29 to 9.77	0.014	
R O	thers	5.56	1.70 to 18.24	0.005	





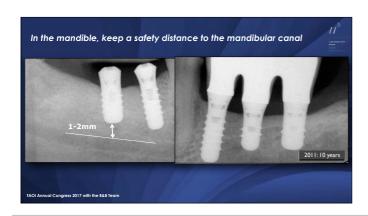




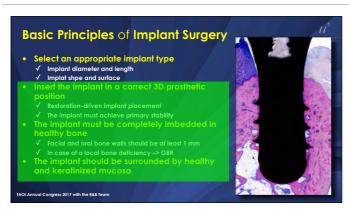




Implant Diameter and Length Important rule: Don't give up implant diameter and length, if it is not needed Need for shorter implants is mainly dictated by anatomy Mandibular canal Roor of the sinus When 6 mm or even 4 mm implants are used, they are always splinted to other implants Be careful with short, single standing implants in bruxers Exceptions are made in elderly patients with reduced bite force Need for a smaller diameter is dictated by anatomy as well Crest width due to bone resorption Reduced gap size













Bone Preparation Drilling speed of 500 rpm Cooling with chilled saline Sharp drills with light hand pressure Soft Tissue Handling Application of a combination Oral Surgery and Perio Surgery

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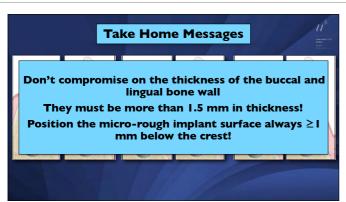


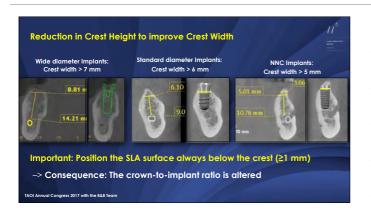






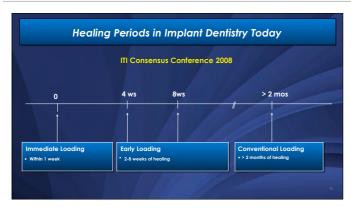


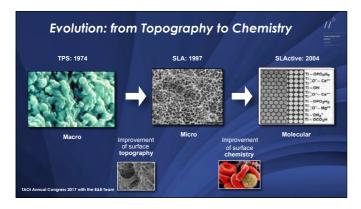


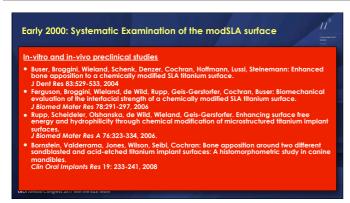


Clinical Studies on short Implants and Crown to Implant Ratio	
Tawil et al: Influence of production of Droi Joral Maxillofac Implant	rates of short implants.Int
Blanes et al.: A 10-year prospective study of ITI dental implants placed in the Influence of the crown-to-implant ratio and different prosthetic treatment m	
s	
s The crown-to-implant ratio is no risk f long-term stability of implar	
If you have to use shorter implants (< I them to other implants	0 mm), splint
Schneider et. al.:"Influence of the crown-to-implant length ratio on the clinical supporting single crown restorations: a cross-sectional retrospective 5-year	
Impl. Res. 23, 169–174, 2012 Anitue et.al: "Retrospective study of short and extra-short implants placed in of crown-to-implant ratio on marginal bone loss". Clin. Imp. Dent. Rel. Res.	posterior regions: Influence

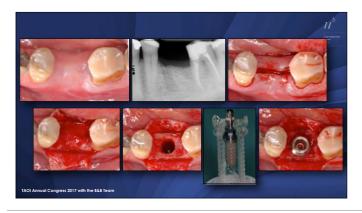








Clinical Problem: How to measure Implant Stability?	UNICOTECUTATI MATERIAL CORROLL
Periotest values Has been used for years for langterm studies with implants Can only be used with restored implants Insertion forque values (in Ncm) Used for years by the Branemark group Values between 30 to 100 Ncm are youndared was Disadvantage. No follow up measurement to measure Resonance frequency analysis (RFA), ISQ values Introduced in 1996 by Meredith Improved over the years, currently 3rd generation instrument	
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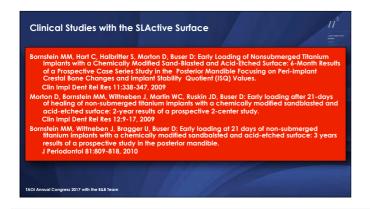












Bornstein, Hart, Halbritter, Morton, Buser: Early Loading of Nonsubmerged Titanium Implants with a Chemically Modified Sand-Blasted and Acid-Etched Surface: 6-Month Results of a Prospective Case Series Study in the Posterior Mandible Focusing on Peri-Implant Crestal Bone Changes and Implant Stability Quotient (ISQ) Values.

Clin Impl Dent Rei Res 11:338-347, 2009

Material and Methods

56 implants with a modSLA surface were inserted in posterior mandibular sites of 40 patients

Standard implant placement without bone augmentation procedures

Implant loading at day 21 using provisional restorations in occlusal contact

Follow-up exams at 4, 7, 12 and 26 weeks

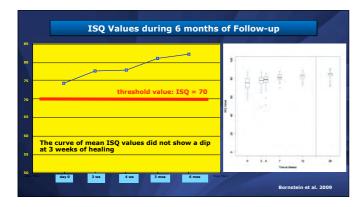
Standard clinical parameters and DIB values

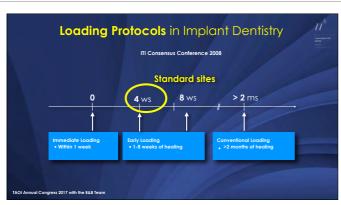
ISQ valus to assess implant stability over time

Results

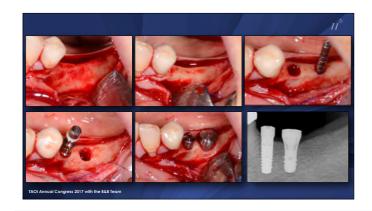
No implant failures resulting in a 6-months success rate of 100%

2 spinning implants at day 21 requiring an extended healing period
ISQ values were very helpful to determine implant stability during initial healing
Clinical and radiographic parameters were in line with previous studies













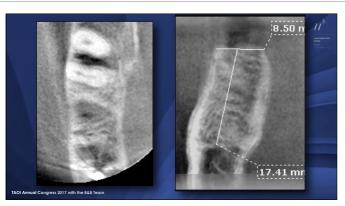


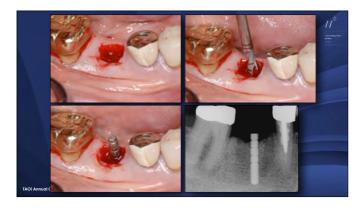


Surgical Procedure	2002-04	%	2008-10	%	2014-16	%
Implants Standard, open flap	878	48.3	877	38.2	856	37.9
Implants Standard, flapless	0	0.0	34	1.5	29	1.3
Implants with GBR	722	39.7	962	42.2	972	43.0
simultaneous GBR	599	33.0	889	39.0	887	39.0
staged GBR	123	6.7	73	3.2	85	3.2
Implants with SFE	217	11.9	402	17.8	403	17.8
simultaneous osteotome tx	35	1.9	63	2.8	35	2.8
simultaneous window tx	122	6.7	195	8.6	233	8.6
staged window tx	60	3.3	145	6.4	135	6.4
Implants with GBR & SFE	939	51.7	1364	60.0	1375	60.8
Total	1' 817	100.0	2' 279	100.0	2261	100.0

























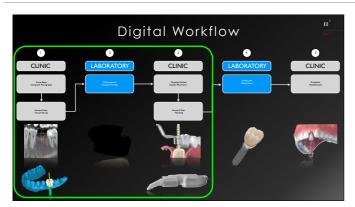


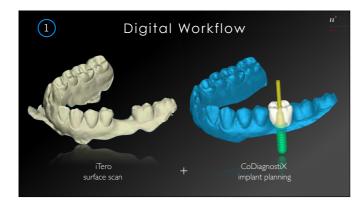




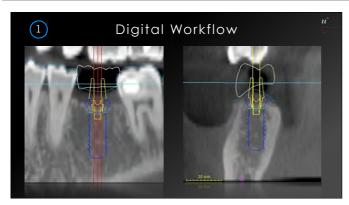
















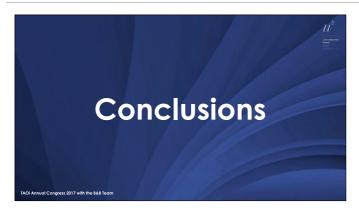












Conclusions for the Posterior Mandible Implant placement in posterior sites follows the same surgical principles as established more than 20 years ago • A low-trauma surgical technique is recommended ✓ Careful handling of bone and soft tissues • Implant placement in appropriate prosthetic positions is a «must» √ Restoration-driven implant placement Achievement of primary stability is important √ Use of screw-type implants In sites without bone defects, a non-submerged implant healing has been successfully used in over 20 years √ Less morbidity for patients, reduction of cost TAOi Annual Congress 2017 with the B&B Team **Conclusions: Implant selection** • The tissue level implant is still the work horse in daily practice √ The hybrid design with a machined collar is a big adva √ The Derks et al. (2015) papers clearly document this √ The University of Bern will have published 5 studies with 10-year data by the end of 2017 with Tissue Level implant documenting excellent long-term stability The Bone Level implant is mainly used for esthetic single tooth replacement and for the replacement of 11/21 The most often Tissue Level implant is the standard diameter with a length of 10 mm The development of shorter and diameter-reduced implants has widened the indications for implant therapy √ They allow the reduction of bone augmentation procedures √ The small-diameter NNC Roxolid implant is a very nice addition TAOi Annual Congress 2017 with the B&B Team Conclusions: Basic Surgical Principles in posterior Sites • In ideal anatomical situations, flap-less implant placement is performed √ Today, CAIS is used √ In posterior sites, we are somewhere around 5% of cases today ✓ The main implant site is the 1st molar in the mandible TAOi Annual Congress 2017 with the B&B Tean Conclusions • The concept of early loading at 8 weeks in posterior sites is well documented with the SLA and Osseotite implant surface This approach is cost-effective, patient friendly and can be mastered by average talented clinicians A further reduction of the healing time is feasible with a chemically modified SLActive surface in standard implant sites without bone grafting A 4 week healing period increases the attractiveness of the early loading concept further • Immediate loading in posterior sites has no use in our patients Case selection is crucial measuring ISQ values to objectively examine implant stability during initial wound healing

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