



"Implant Success"

1- Oríginal Treatment plan is performed without complications

2- All implant placement remain stable and functional without problems

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Classification of Peri-Implantitis (Froum, Rosen 2012)

Гурез	Characteristics
Early	PD ≥ 4 mm (bleeding and/or suppuration on probing
	Bone loss < 25% of the implant length
Moderate	PD ≥ 6 mm (bleeding and/or suppuration on probing
	Bone loss 25% to 50% of the implant length
Advanced	PD ≥ 8 mm (bleeding and/or suppuration on probing)
	Bone loss > 50% of the implant length
PD, probing depth.	







NON SMOKERS	DEPENDS	95% SUCCESS RATE	
SMOKERS cig/day	2.77 increase	89% SUCCESS RATE	
SMOKERS IO cig/day	2.77 to 4.75 X increase in progression	Lower	
SMOKERS 20 CIG/DAY	4.75 X increase in progression	LOWEST	





Manual debridement with Mechanical Instruments	Localized Antibiotic Delivery	Subgingival Irrigation
SubGingival Implant Debridement LASER Therapy	Promote bone gain, attachment gain, reduce BOP, reduce pocket depth	CO2, ErYag Novins 2014

Surgical Treatment FLOWCHART

Implantoplasty	Limited Open Flap Debridement	
Implant Debridement	Open Flap Debridement	Resective TX
Implant Debridement		Bone Crafting/ Membrane
Implant Removal/ Explantation	BONE Graft/ MEMBRANE	Replacement/LET IT BE

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65% of 185 failed implants showed excess cement when examined under magnification (Wadhwani 2012) 81% of the 42 implant diagnosed with peri-implant disease showed signs of residual cement(Wilson 2009)







MícroFlora of Perí-Implant Díseases



Bactería in Perí-Implant diseases are sinúlar to bactería in periodontal disease Patient who have lost their teeth due to periodontitis have an increased risk of developing Peri-Implantitis

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Dísrupt, Dílute, Dextoxífy



Detoxification - KEY TO SUCCESS SALINE, CHX, citric Acid				60
Implant Debridement	SALINE	17 % graft Adhesion		
Implant Debridement	СНХ	48.7% graft Adhesion	50 % Surface Detoxification	
lmplant Debridement	CITRIC ACID	90 % graft Adhesion	100 % Surface Detoxification	
	24% EDTA, 60	% Cítríc Acíd	Gamal, F Monje	orum 2022, st al 2022



The distance from the prosthetic margin margin to crestal bone if < 1.5 mm was significantly associated with peri-implantitis

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Factors associated with risk of prost<u>hetic complications</u>





Retentive elements of over-dentures RIDGE LAP - ISSUE Loose Abutment Sorew -cement or sorew retained Open Margin Fractured Abutment Sorew/OEM Components Fracture Bruxism

Anterior Posterior/ AP Spread





Implant-retained prostheses can predictably cantilever up to **1.5 times the distance** between a line drawn through the most anterior implants and a line drawn through the most posterior implants. This is referred to as the anterior-posterior (A-P) spread.



Minimum space requirements: Bar 5 clip: 14mm Hybrid: 10-12mm LOCATOR: 8mm

Minimum space requirements



Minimum space requirements: Bar & clip: 14mm Hybrid: 10-12mm LOCATOR*: 8mm C&B: 7-8mm







Maintenance Regimen





3mm with NO BOP Gentle probing, evaluate plaque, Prophy cup and polish 3mm with BOP or 4-6mm with NO BOP Debride with curette, NaOCl, CHX, Arestin 6mm + , BOP, Pus, Pain etc Surgical debridement and regeneration if needed, Systemic Antibiotics

Home care



Brush twice a day Floss 2 times a day Rinse with Listerine/ essential oil 2 times a day Use EndTufted/ ProxyBrush Use NaOCI/ H2O2 for cleaning super structures

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Techniques to remove failed/ failing integrated implant

- · Osseointegrated implant is not like a tooth extraction
- · Counter Torque Ratchet BTI
- · Piezo surgery tips (Stacchi 2008)
- · Elevators/Forceps
- High speed burs (Froum 2005)
- Trephine Burs (Sakakura 2005, Esposito, Froum 2005)



	Free hand Placement	Using Surgical Guide	Guided Surgery Placement	XGuide/ XNav/ Yomi placement
Number of implant placed	70 - 75 %	5 to 10 %	15 to 20 %	less than 1 %
PreOp Preparation	Xray / CBCT	IOS, CBCT (MAYBE) or just Xrays and impression	IOS, CBCT, CASE PLANNING	IOS, CBCT, CASE PLANNING
Cost to the patient	\$\$	\$\$	\$\$	\$\$(Maybe slightly more)
Cost to the dentist	\$	\$	\$\$	\$\$\$ + \$

EARLY COMPLICATION	LATE COMPLICATIONS
Overheating of Bone	Occlusal Complications
Lack Of Primary Stability	Esthetic Failures
	Implant/ Prosthetics Fracture
	Peri-Implantitis

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CONSIDER !!!!!! Implants are usually an irreversible process therefore careful planning is the key · Better to be safe than sorry Discuss with the patient before what you think may be a potential complication for that particular case. Because latter it will be an EXCUSE



CONSIDER !!!!!!





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Final Thoughts

GUIDED / Navigation Surgery
SCREW retained if possible
Forced MAINTENANCE every 3-4 months
ANNUAL Exams - PA's not BiteWings
Keep an Implant Log
Don't do stupid #%%Y\$
Don't interchange parts
PRAY PRAY PRAY

