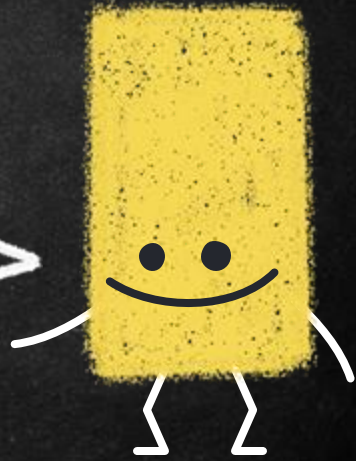


CHAPTER 33

THE PATIENT WITH DENTAL IMPLANTS



Learning Objectives

1. Describe concepts, technology, and terminology relevant to implant dentistry.
2. Develop a knowledge base related to osseointegration and ancillary procedures in oral implantology.
3. Comprehend patient selection factors and education essentials.
4. Understand theory and practice of dental implant maintenance in the clinical setting.
5. Recognize and manage dental implant problems, complications, and failures.

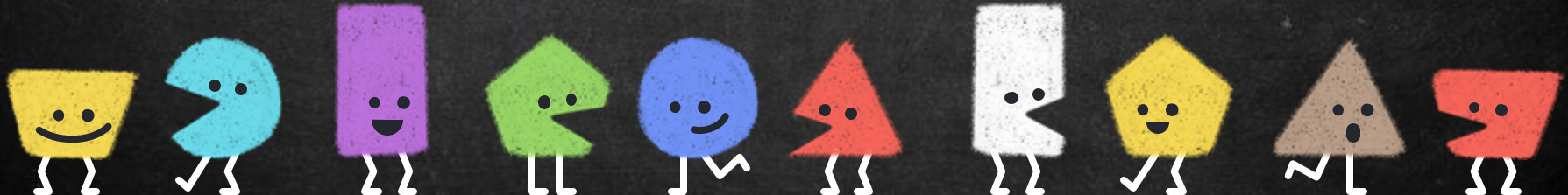
Lecture Agenda

1. Implant Basics
2. VIDEO: What a dentist wants the patient to know
3. Review homecare choices for patients with implants
4. How does the RDH Care for implants?
 - a. Radiographs?
 - b. Probing?
 - c. Instruments?
5. Team up for a DEBATE!
6. Time for Questions, then SPRING BREAK!

WARNING!

You are going to WANT
to pay attention to this
GREAT information.

I'll be asking questions, if
nobody virtually raises
their hand, I'll choose!



Key Words to Know



BOX 33-1

KEY WORDS: Dental Implants

Abutment: segment connecting the submerged implant body to the prosthetic component. The abutment enters the oral cavity providing a platform for attaching crowns or bridges.

Alloplast: an inert foreign body used for implantation within tissue.

Augment: to make greater, more numerous, larger, or more intense.

Augmentation: to increase the size beyond the existing size; in alveolar ridge or maxillary sinus augmentation; to increase the bone to accommodate a dental implant.

Biologic or permucosal seal: functional soft tissue barrier at the base of the peri-implant sulcus; characterized by adhesion of junctional epithelium in the absence of Sharpey's fibers, making it more susceptible to bacterial invasion by periodontal pathogens.

Biocompatible: capable of existing in harmony with the surrounding biologic environment.

Blade form dental implant: tooth root replacement with a wide, thin shape unlike that of a natural tooth.

Endosseous or root form dental implant: tooth root replacement with a cylindrical or conical shape similar to a natural tooth root.

Fibrous encapsulation: layer of fibrous connective tissue between the implant and surrounding bone. Also called fibrous integration; indicative of failed osseointegration.

Guided tissue regeneration: a procedure that attempts to regenerate lost periodontal structures.

Implant thread: endosseous implants with threads resembling a screw.

Occlusal overload: masticatory force applied to an implant exceeding capacity of the bone implant interface or implant component to withstand it. Overload can compromise the integrity of an implant because no periodontal ligament is present to absorb the forces.

Osseointegration: the direct attachment or connection of osseous tissue to an inert alloplastic material without intervening connective tissue.

Peri-implant mucositis: reversible inflammation of the periodontal tissues around an implant with no subsequent bone loss; similar to gingivitis in a natural tooth.

Peri-implantitis: destructive inflammatory process of the periodontal tissues around an implant characterized by progressive bone loss in addition to soft tissue inflammation with hemorrhage and/or exudate; similar to periodontitis in a natural tooth.

Provisional prosthesis or tooth crown: temporary or preliminary appliance or tooth used during healing or osseointegration for purposes of stability or appearance.

Root form dental implant: endosseous implant shaped in the approximate form of a tooth root.

Sinus augmentation (sinus lift): site preparation procedure that elevates the floor of the maxillary sinus to accommodate a dental implant by increasing the vertical height of bone via grafting/augmentation.

Subperiosteal frame dental implant: framework placed under the periosteum that is tacked in place on the bone with a few small screws to support an overdenture tooth root replacement with a cylindrical or conical shape.

Suppuration: formation or discharge of pus.

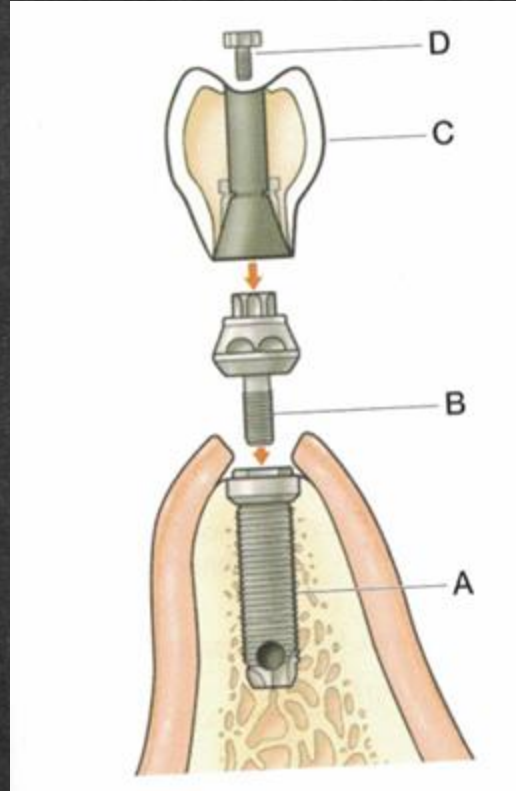
Titanium: a uniquely biocompatible metal used for implants either in the commercially pure form or as an alloy.

Titanium alloy: a common titanium alloy (Ti-6Al-4V) used for dental implants that contains 6% aluminum to increase strength and decrease weight and 4% vanadium to prevent corrosion.

Tomography: a 3-dimensional image of the internal structures of a solid object like the mandible.

Components of a Dental Implant

What are the
components called?



Components of a Dental Implant

A: Implant Body

B: Abutment

C: Crown

D: Screw (or cement)

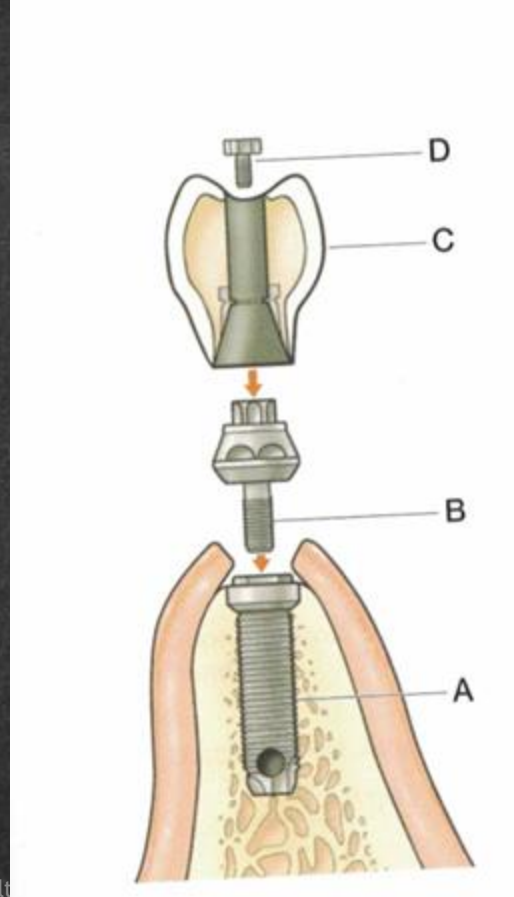




Figure 32.3. Implants and Components. An example of a titanium implant screw and abutment. (Used with permission ©2009 Zimmer Dental Inc. All rights reserved.)

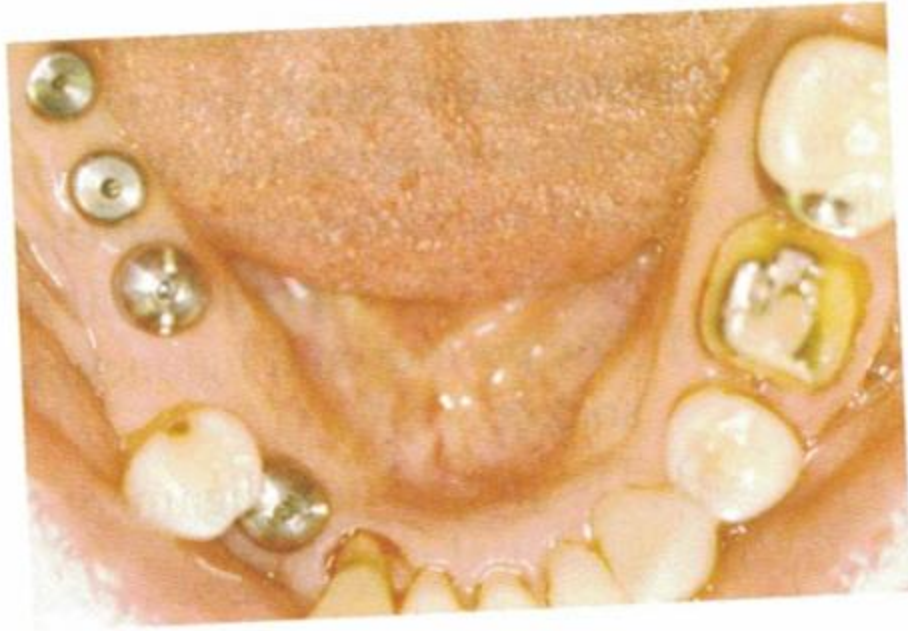


Figure 32.4. Abutments. This photograph shows the healing abutments for four implants. (Courtesy of Dr John S. Dozier, DMD, MSD, Tallahassee, FL.)

Bone Physiology

- I. Bone Classification
- II. Biomechanical Force
- III. Grafting and Regeneration

Types of Bone Cells



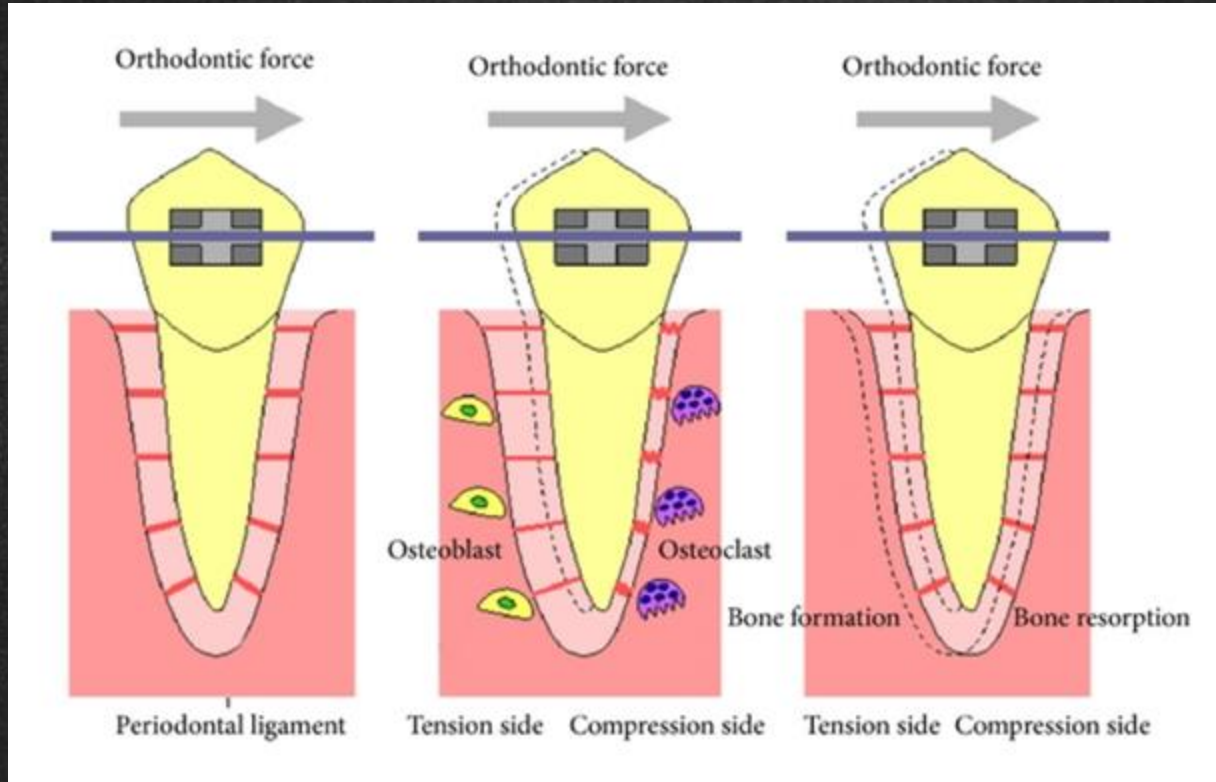
<https://images.app.goo.gl/pxQKkRdRQf5Uy8bf6>

<u>Cell Type</u>	<u>Function</u>	<u>Mnemonic</u>
OsteoCYTES	Mediate activity	
OsteoBLASTS	Repair and Regenerate	Blasts BUILD bone
OsteoCLASTS	Remodeling and homeostasis	Clasts CUT up bone

Wolff's Law

“Bone is laid down in areas of greatest stress and resorbed in areas where it is not stressed”

How Teeth Move with Braces



<https://images.app.goo.gl/6VMD9eGC2kQwHahX8>

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“Use it or Lose it” Principle

Bone will resorb if not “used”

No tooth? No forces? = Bone LOSS

Dental implants PRESERVE bone!



<https://images.app.goo.gl/sYFTfcpJLZbN2QJA7>

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Types of Bone

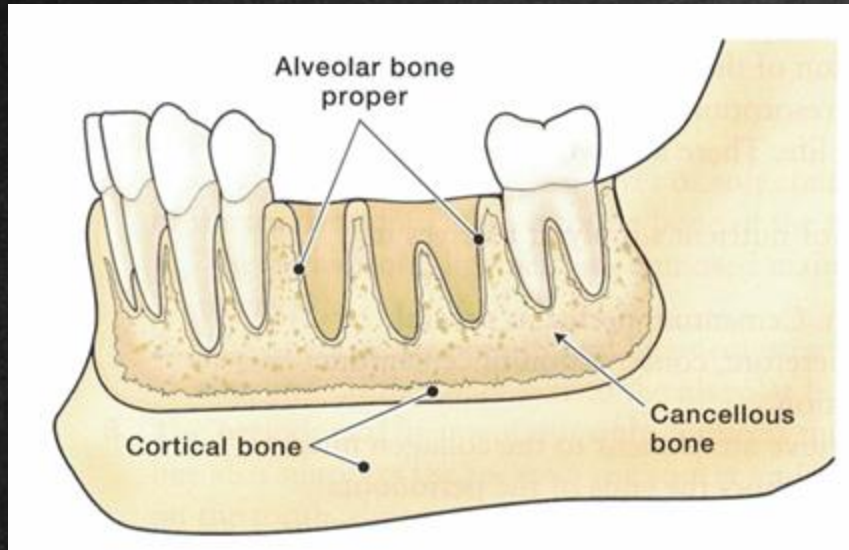
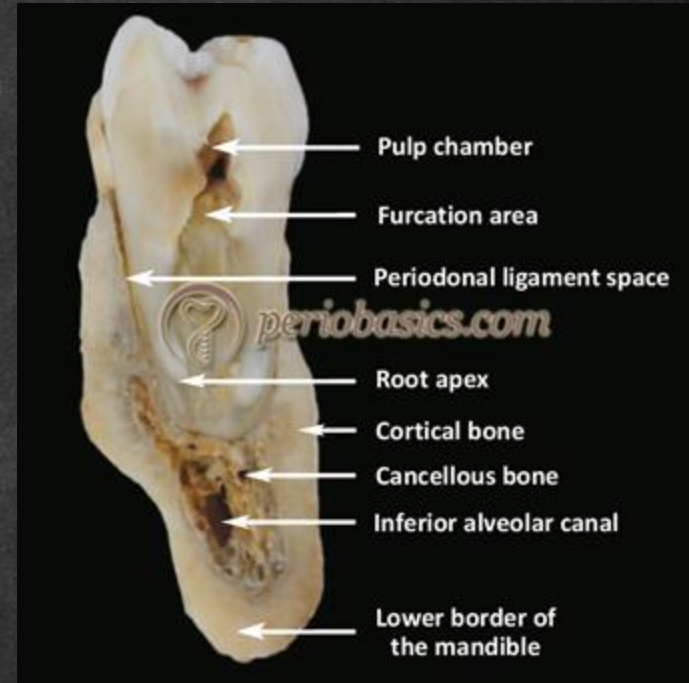


Figure 1.16. Layers of the Alveolar Process.
A lateral section of the mandible reveals the three bony layers: the alveolar bone proper, cancellous bone, and cortical bone.



<https://images.app.goo.gl/asxu2rdZGHp8SPMN8>

What if there is not enough bone?



What if there is not enough bone?

→ May not be an implant candidate

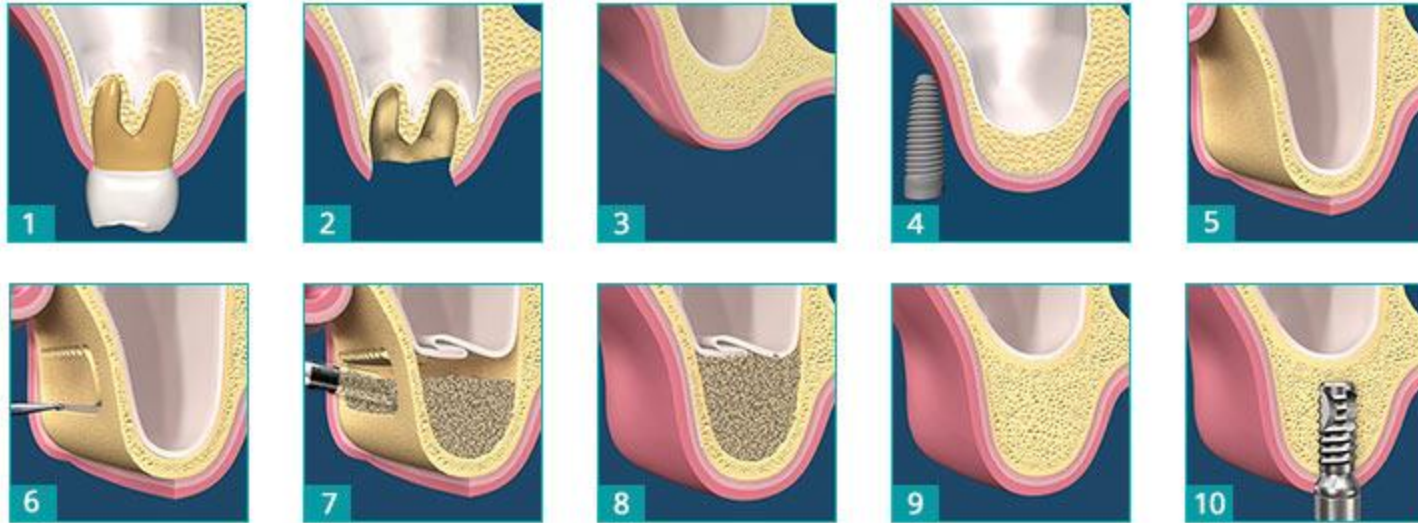
→ Bone can be added through graft procedures

Autograft	Bone from patient, harvested from donor site (i.e. roof of mouth)
Allograft	Bone from another human (i.e. cadaver bone)
Zenograft	Bone from another species (i.e. cow, bovine, horse)
Alloplast	Synthetic bone (i.e. beta tricalcium phosphate)

Diagnostic Tools



Maxillary Sinus Lift



<https://images.app.goo.gl/HhGo7TWhS6QMqZ9y8>

Osseointegration

- Healing phase takes place between 0 and 12 months.
- Remodeling phase takes place between 3 and 18 months.
- Steady state takes place 18 months and beyond.

Depending on Bone LOCATION depends on healing

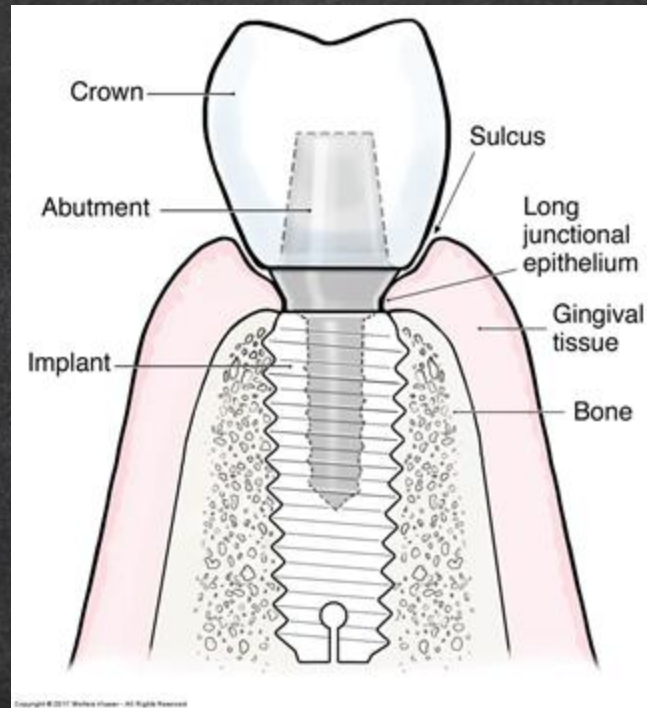
Remember
Dental Anatomy?

- Mandibular bone is more dense
 - Maxillary bone is less dense
- Bone growth is physiological process, patient dependent!
(Think medical history)

Implant Interfaces

- I. Implant/Bone Interface
- II. Implant/Soft Tissue Interface

FIGURE 33-1 The Implant/Soft Tissue Interface



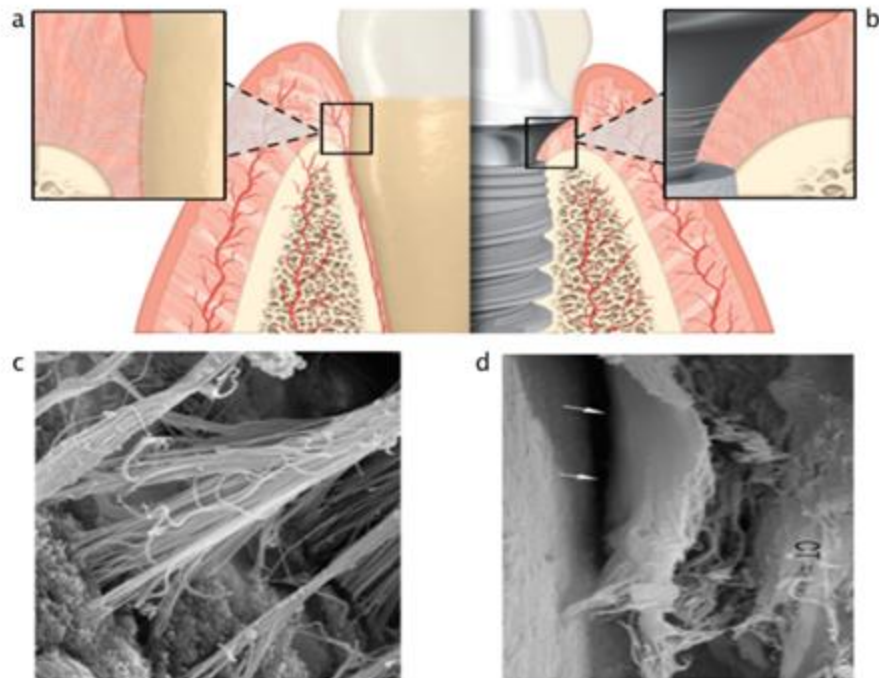
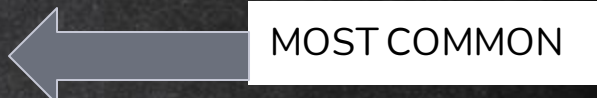


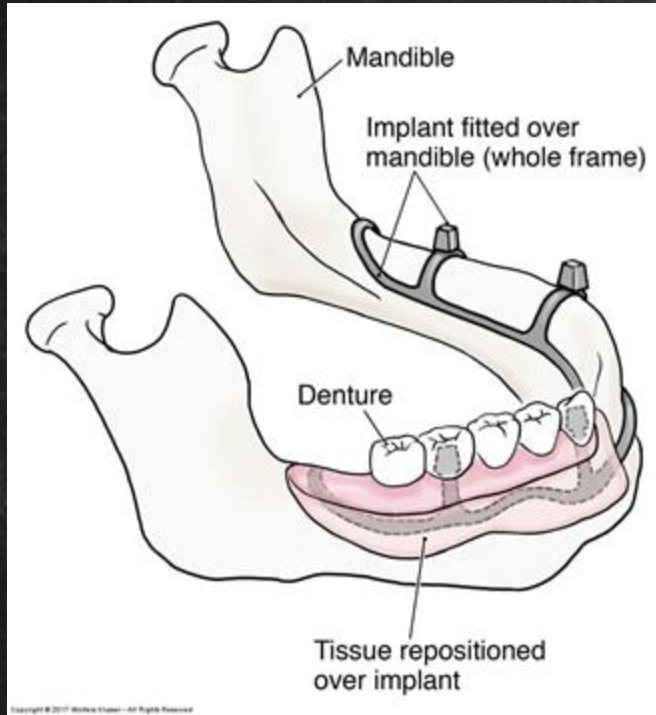
FIGURE 3: A comparison of periodontium and peri-implant soft tissue characteristics. A, Sharpey's fibers attach to the cementum of natural teeth and are oriented perpendicular to the tooth surface. B, By comparison, peri-implant connective tissue is primarily oriented parallel or circumferentially to the abutment surface. C, A scanning electronic micrograph (SEM) image of the strong attachment between Sharpey's fibers and cementum in natural teeth. D, An SEM image of the parallel orientation of collagen fibers around a titanium abutment. Illustration courtesy of Nobel Biocare. SEM images © Schüpbach Ltd., Peter Schuepbach (pmschuepbach@mac.com).

Types of Dental Implants

- I. Subperiosteal
 - II. Transosseous (Transosteal)
 - III. Endosseous (Endosteal) Implant
- 

Subperiosteal Implant

“SUB” means below

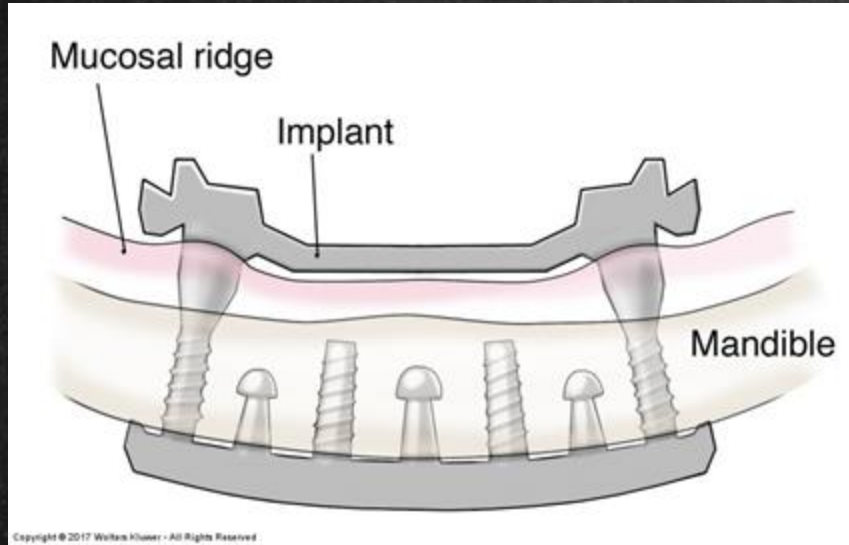


Custom fabricated framework of metal that rests over the bone, under the periosteum

FIGURE 33-2

Transosteal Implant

“TRANS” means
across

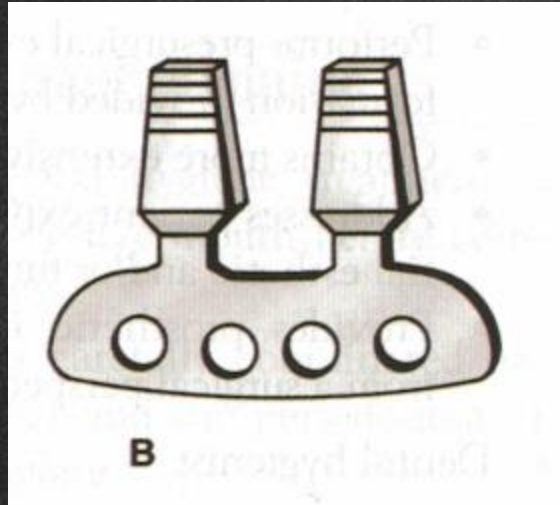


Dental implant penetrates both cortical plates and passes through full thickness of alveolar bone.

AKA: mandibular staple implant
staple bone implant

FIGURE 33-3

Endosseous Blade Implant

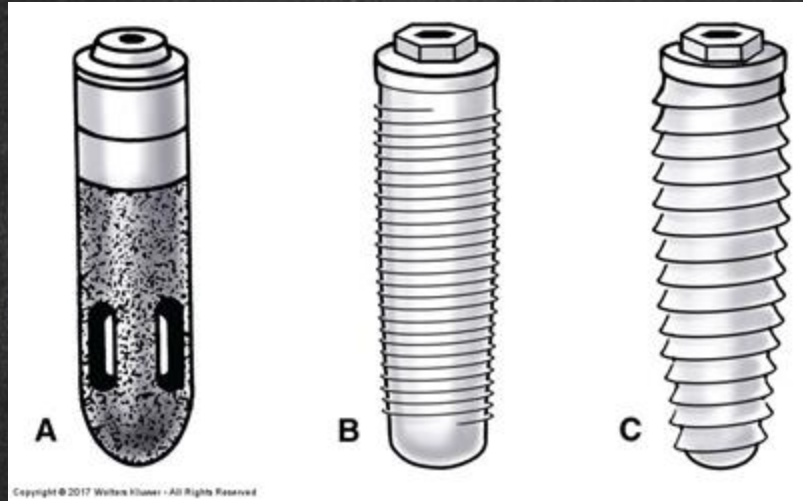


Earliest generation of endosseous implant

Not commonly used anymore

FIGURE 33-4

Endosseous Root Form Implants



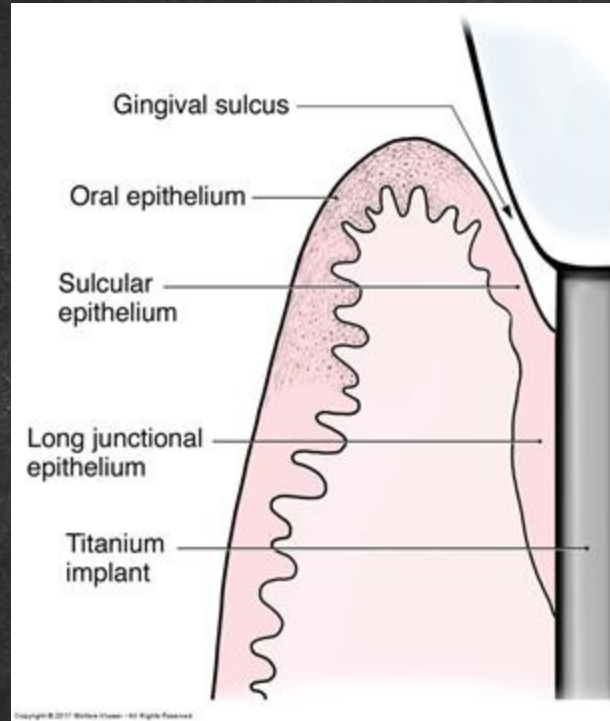
A: Cylinder type

B & C: Screw Type

*Most commonly used

FIGURE 33-5

FIGURE 33-6 Parts of an Endosseous Implant



Implant Procedure



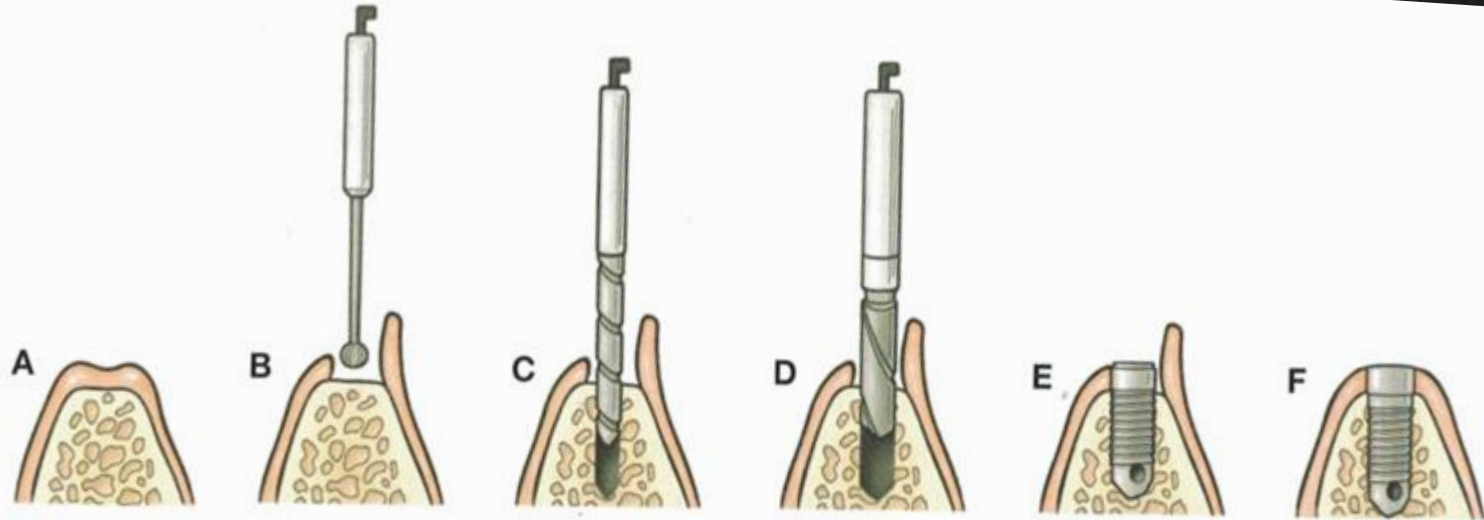
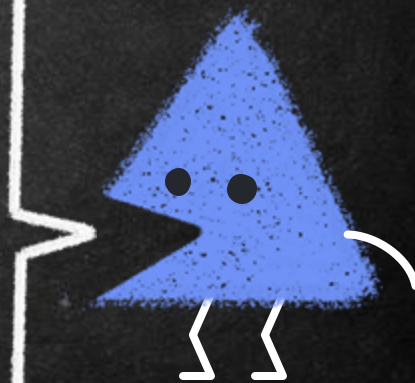
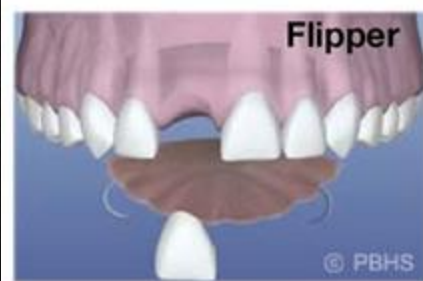


Figure 32.5. Surgical Placement of Dental Implants. **A:** Edentulous alveolar ridge. **B:** Initial osteotomy site established. **C, D:** Drills of increasing diameters used to prepare osteotomy to the size of the planned implant. **E:** Implant body seated in the osteotomy. The top of the implant body may be slightly above, level with, or slightly below the crest of the bone. **F:** Implant body seated in bone with cover screw attached. At the end of placement surgery, the implant can be covered with gingiva or left exposed to the oral cavity, as shown here. A healing time of several weeks to months is allowed so that osseointegration can occur.

Interview with Dr. Ashley Brown, DDS



What's a
"Flipper"?



Factors to Teach the Patient

- I. Tooth loss - progressive, irreversible bone resorption.
- II. Implants preserve and maintain surrounding bone
- III. Care for implants
- IV. Meticulous daily self-care by the patient.
- V. The role of biofilm in periodontitis and peri- implantitis;

Factors to Teach the Patient con't

- VI. History of periodontitis may increase risk for peri-implantitis.
- VII. Time necessary for biofilm removal
- VIII. Frequent, ongoing professional care
- IX. Contact office if complication

Realistic Expectations



<https://images.app.goo.gl/uqf18aqhVCrut18QA>



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WHY CLEARCHOICE

Benefits of The ClearChoice Way

Laurie
ClearChoice Smile Recipient



Discover what happens
at your free
consultation

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What To Expect From ClearChoice

ClearChoice was founded on the principle that there had to be a better way to perform dental implant procedures. We perform more [dental implant procedures](#) every year than many other facilities or networks because of our innovative approach to treating patients. That level of experience has given thousands of patients the confidence to take that [first step](#) towards a better smile.



Dale L. Cipriani
Prosthodontist

Patient Selection

- I. Systemic Health
- II. Tobacco Use
- III. Oral Examination

What do you know so far?



Preparation and Placement

- I. The Dental Implant Team Responsibilities
- II. Information for the Patient
- III. Collaborative Treatment Planning
- IV. Limiting Factors During Treatment

TO ROAD TO AN IMPLANT TEAMWORK & COMMUNICATION

Patient Evaluated by
General Dentist

1

Implant
Placed

3

Hygiene Recare
Visits

5

2

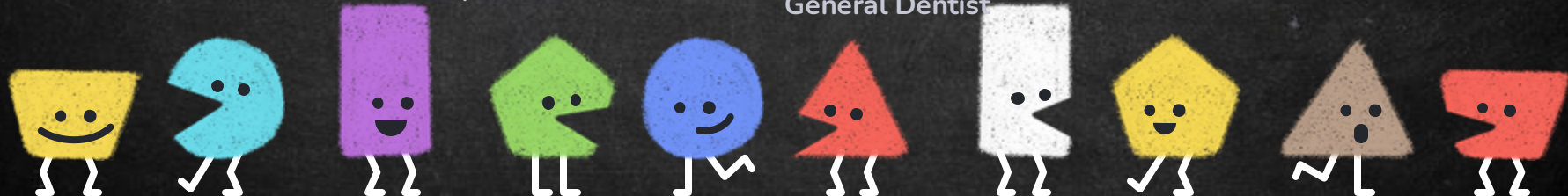
Oral Surgeon-
Extraction/ Bone Graft

4

Crown Place by
General Dentist

Other visits/ Details:

- Informed Consents
- Size/Brand Specific Parts and Tools
- Regular dental checkups
- Insurance maximums?
- Radiographs and Progress Letters Shared?



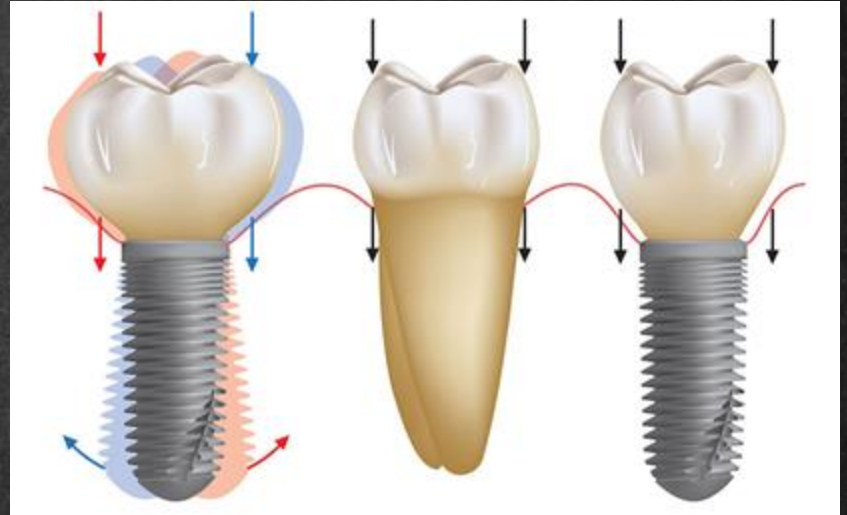
Postrestorative Evaluation

- Radiographic
- Peri-implant tissue health
- Test for mobility
- Occlusal integrity
- Patient function and comfort
- Sufficiency of patient's oral self-care

Occlusal Guard/ “Night Guard”



<https://images.app.goo.gl/dyNsQi2uGLPc95EdA>



<https://images.app.goo.gl/hbqhzPjc1héhMHs6A>

Peri-implant Hygiene

- I. Care of the Natural Teeth
- II. Implant Biofilm
- III. Planning the Disease Control Program
- IV. Selection of Biofilm-Removal Methods
- V. Rinsing and Irrigation
- VI. Fluoride Measures for Dental Caries Control

OHI Specific for Implants

1. Toothbrushes
2. Toothpastes
3. Rinses
4. Interdental Aids:
 - a. Floss
 - b. Water piks
 - c. Proxy Brushes



Power Brushes

BURST



Burst Charcoal
Tapered Bristles

PHILIPS
sonicare



Oral-B



Oral B “Power Tip”
Brush Head

Homecare Products- Floss



Water Flosser



Special Waterpik Tip for Implant Retained Denture



Waterpik® Plaque Seeker™ Tip

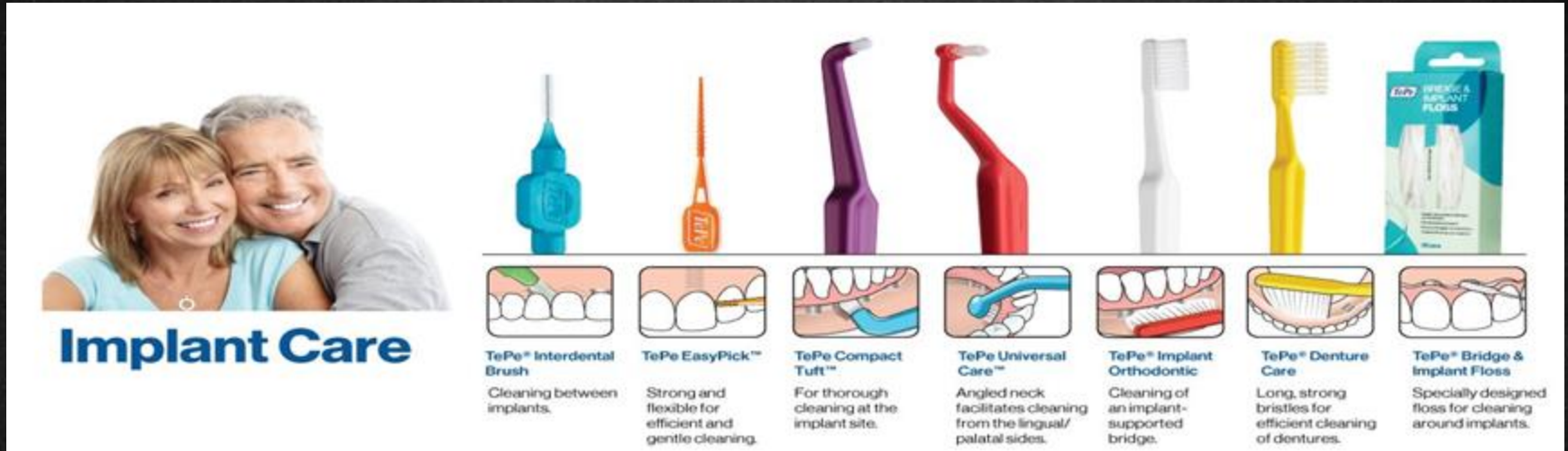


Waterpik® Implant Denture Tip














Homecare Products- Interdental/Proxy



Homecare- Specialty Brushes



Implant Care

TePe® Interdental Brush	TePe EasyPick™	TePe Compact Tuft™	TePe Universal Care™	TePe® Implant Orthodontic	TePe® Denture Care	TePe® Bridge & Implant Floss
 	 	 	 	 	 	 
Cleaning between implants.	Strong and flexible for efficient and gentle cleaning.	For thorough cleaning at the implant site.	Angled neck facilitates cleaning from the lingual/palatal sides.	Cleaning of an implant-supported bridge.	Long, strong bristles for efficient cleaning of dentures.	Specially designed floss for cleaning around implants.

<https://www.perioimplantadvisory.com/clinical-tips/hygiene-techniques/article/16411611/dental-hygiene-nightmares-no-more-at-home-maintenance-for-success-with-dental-implants>

TePe Implant Kit



Video 2:18

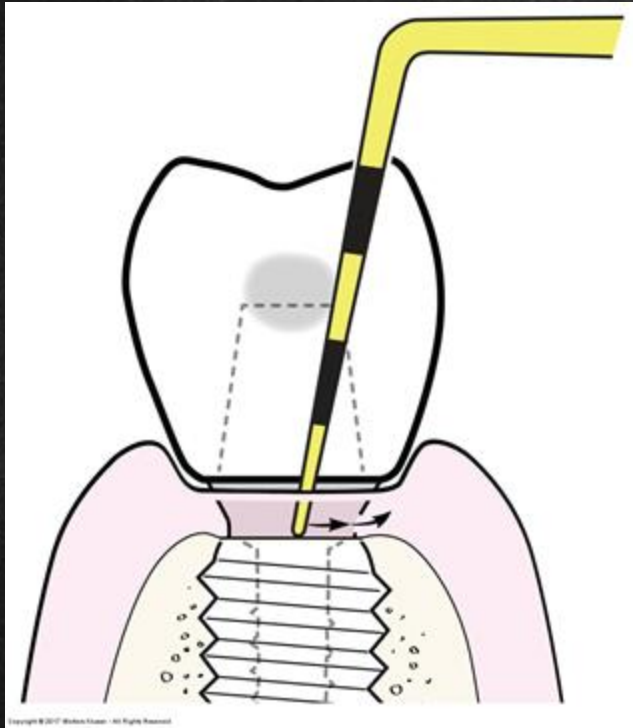
Continuing Care

- I. Probing Dental Implants
- II. Basic Criteria for Implant Success
- III. Frequency of Appointments
- IV. The Continuing Care Appointment

Where at HCC?



FIGURE 33-7 Probing an Implant



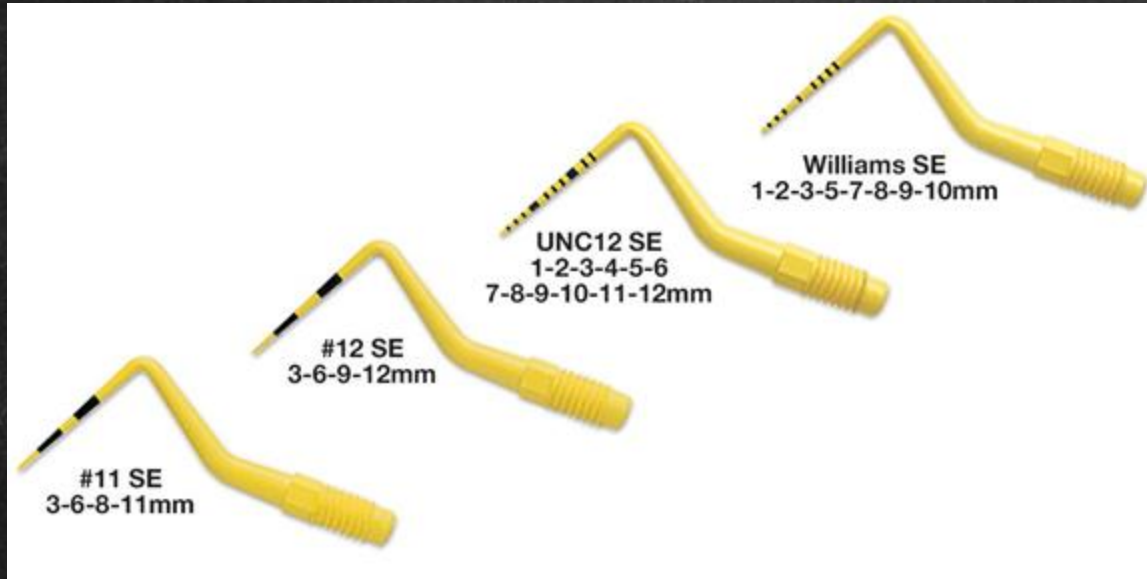
WHEN to probe?

How to probe?

What probe do I use?

What do the numbers
“mean”?

Color Vue - Plastic Probe



Natural Tooth v. Implant

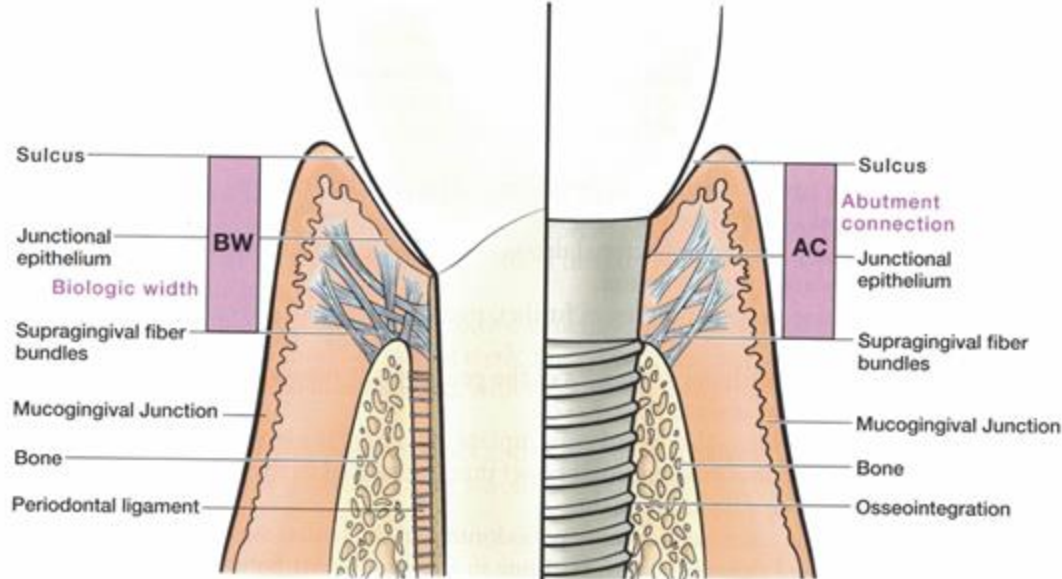


Figure 32.6. Comparison of Periodontium Interface with a Natural Tooth Versus a Dental Implant. Note that the interface between a tooth and the periodontium differs from the interface between an implant and the periodontium. The implant lacks the periodontal ligament connection to the alveolar bone and the gingival fibers do not insert into the titanium.

Lets see in ACTION

HYGIENE EDGE



<https://www.youtube.com/watch?v=Z7r-fCiVM-A>

Hu Friedy Plastic Scalars



Titanium Implant Scalers

Hu-Friedy is now a proud member of
HuFriedyGroup
The Best In Practice



Paradise Dental Technologies

Passionate. Purpose Driven Design™



<https://www.hu-friedy.com/TIS>

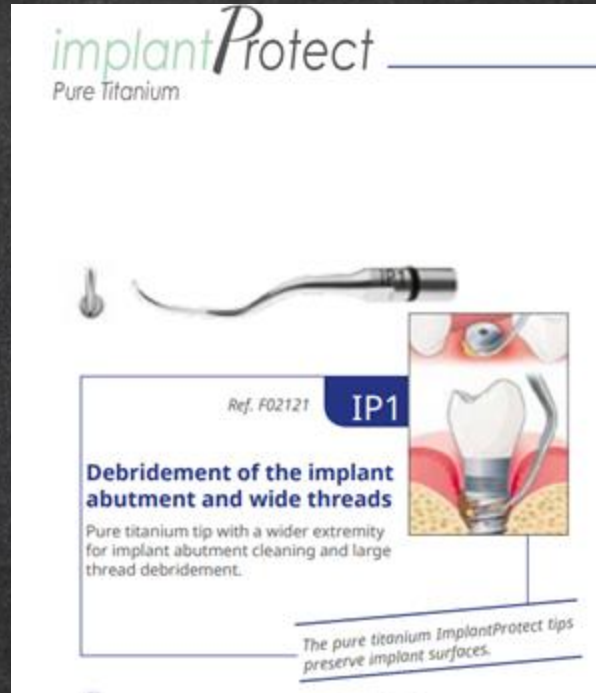


Ultrasonic Insert for Implants

Magnetostrictive “Cavitron”



Ultrasonic Insert for Implant- Piezoelectric



Air Polishing

Hu-Friedy is now a proud member of
HuFriedyGroup
The Best In Practice



Glycine Powder





Subjects	33
Environment	in vivo
Duration	6 months

NON-SURGICAL TREATMENT OF PERIIMPLANTITIS USING AN AIR-ABRASIVE DEVICE OR MECHANICAL DEBRIDEMENT AND LOCAL APPLICATION OF CHLORHEXIDINE: A PROSPECTIVE, RANDOMIZED, CONTROLLED CLINICAL STUDY

Sahm N, Becker J, Sandel T, Schwarz F
Journal of Clinical Periodontology; 2011; 38: 872-878

AIM:

To evaluate and compare the efficacy of an air-polishing device with mechanical debridement and local application of Chlorhexidine (CHX) for non-surgical treatment of periimplantitis

CONCLUSION:

Both treatment procedures resulted in comparable but limited clinical attachment level gains at 6 months

Air-polishing (EMS AIR-FLOW® PERIO) was associated with significantly higher reductions in bleeding on probing than mechanical debridement

MATERIAL AND METHODS

TEST GROUP AND CONTROL GROUP:

- 33 subjects with at least one screw-type titanium implant, showing clinical and radiographic signs of initial to moderate periimplantitis, were selected

DEVICES:

- Test group: Treatment was performed using an AIR-FLOW Master® with PERIO-FLOW® nozzle and glycine-based powder (25 µm, AIR-FLOW® PERIO Powder)
- Control group: Mechanical debridement was performed using carbon currettes (Straumann), followed by the application of CHX (GlaxoSmithKline)

PROCEDURE:

- 4 weeks before the treatment, all subjects received professional supragingival implant and tooth cleaning using rubber cups and polishing paste
- The same procedure was repeated at baseline, and 2, 4, 6, 8, 10, 12, 16, 20 and 24 weeks after treatment
- Treatments for both groups were performed under anesthesia
- Using the single-use PERIO-FLOW® nozzle, glycine-based powder was delivered subgingivally along the mesial, distal, vestibular and oral surfaces for 5 sec/site
- Mechanical debridement was carried out using carbon currettes until the operator was satisfied with the calculus removal. This was followed by pocket irrigation with 0.1% CHX digluconate solution, and submucosal application of 1% CHX gel
- The following clinical variables were evaluated at baseline, and three and 6 months post-treatment: Plaque index, bleeding on probing (BOP), periodontal pocket depth (PPD), mucosal recession and clinical attachment level
- All measurements were taken at 6 aspects per implant

RESULTS:

- At 6 months, the air-polishing group revealed significantly higher reductions in BOP in comparison to sites treated with mechanical debridement
- The clinical attachment level gains and PPD reductions were comparable



Subjects	15
Environment	in vivo
Duration	1 month

THE EFFECT OF AIR-FLOW® GLYCINE POWDER AND HAND INSTRUMENTATION ON PERI- IMPLANT SOFT TISSUES: A SPLIT MOUTH PILOT STUDY

Mussano F, Rovasio S, Schierano G, Baldi I, Carossa S

AIM:

To compare the efficacy of traditional teflon curettes with an air-polishing device using glycine-based powder in the periodontal therapy of dental implants

CONCLUSION:

Air-polishing with AIR-FLOW® PERIO was observed to be more effective and less invasive than Teflon curettes for maintenance of periimplant soft tissues

MATERIAL AND METHODS

TEST GROUP AND CONTROL GROUP:

- 15 edentulous subjects with overdentures supported by 2 implants in the mandibular region were selected
- Each of the 2 implants per subject was randomly assigned to either hand instrumentation or air-polishing

DEVICES:

- Test group: Air-polishing was performed using an EMS AIR-FLOW Master® with PERIO-FLOW® nozzle and glycine-based powder (25 µm, AIR-FLOW® Powder PERIO)
- Control group: Mechanical debridement was performed using teflon curettes (Universal Implant Deplaquer, Hawe Neos) for subgingival deposits and a scaler (IH 6/7 tips; Hu-Friedy) for removal of plaque from the abutments

PROCEDURE:

- The following clinical variables were evaluated before treatment (T0), at one hour (T1), 1 week (T2) and 4 weeks (T3) post-treatment: bleeding on probing, periodontal pocket depth and bacterial count within the gingival sulcus
- Periodontal probing was done using a plastic probe (PerioWise®, Premier Dental) at T0, T2 and T3
- Microbial analysis from perio-implant sulcus was done by inserting sterile paper points at all time points
- Air-polishing was performed for 5 sec per site whereas the time spent on hand instrumentation was not noted

RESULTS:

- A significant effect modification of the Glycine Air-polishing compared to hand instrumentation with respect to time was found for periodontal pocket depth, bleeding on probing and bacterial count

What happens when implants FAIL?



<https://images.app.goo.gl/Ee9HB3n6dumqcm1i6>

Implant Complications

- I. Factors that Contribute to Implant Failure
- II. Peri-implant Problems
- III. Restorative/Prosthetic Hazards

Classification of Peri-implant Disease

- I. Ailing Implant (Peri-implant Mucositis)
- II. Failing Implant (Peri-implantitis Without Mobility)
- III. Failed Implant (Peri-implantitis with Mobility)

Retained Cement

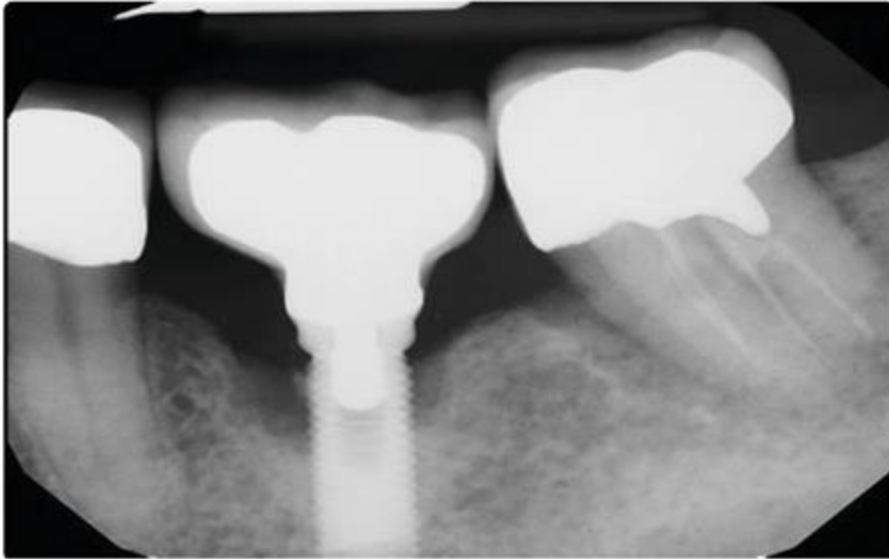


Figure 6: X-ray shows retained cement on mesial of implant. Photo courtesy of M. Virginia Kirkland, DMD, MS.



Figure 7: Explant exposing piece of cement. Photo courtesy of M. Virginia Kirkland, DMD, MS.

<https://www.rdhmag.com/pathology/periodontitis/article/14071644/how-dental-hygienists-can-manage-periimplantitis-patients>

Radiographs

Why would you take a Bitewing in the Horizontal or Vertical Direction?

Remember- 2D radiographs are limited. Will not show the entire “picture”.

What other technology might we use?

2D vs. 3D Imaging



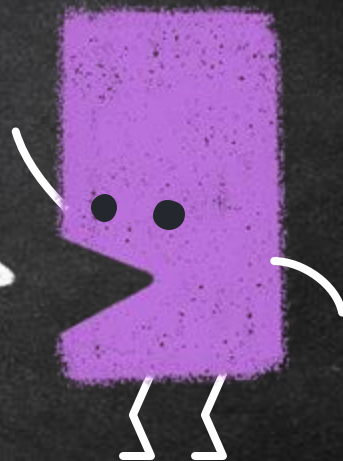
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Clinical vs. PA. vs. BW



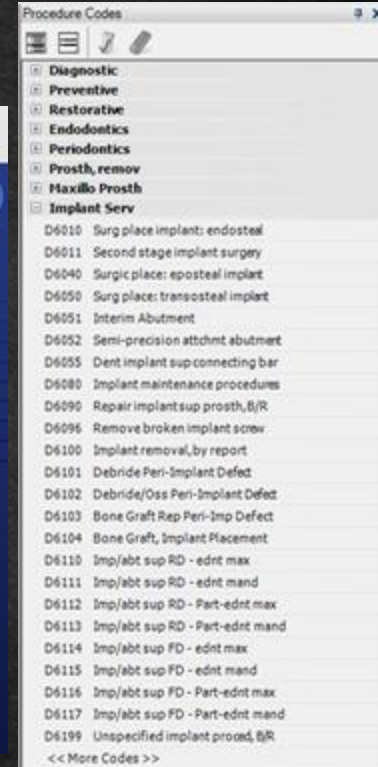
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Want to learn
something **REALLY**
useful?

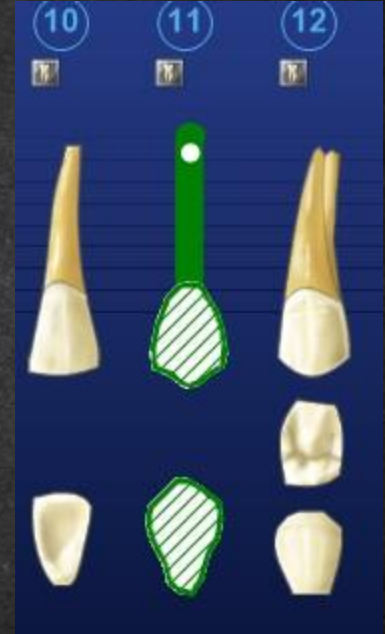


Dental Charting Steps in Dentrix

1. Select tooth
(highlighted in blue)
2. Select codes
 - a. Extracted tooth
 - b. Dental implant
 - c. Implant crown
3. Select “Post” (Tooth with check mark)
4. Click EO (green)



Charting Implants in Dentrix



Charting Implants in Dentrrix

If it looks like this?

- Make sure to chart the root as extracted
- Add implant crown



DISCLAIMER FOR THE “REAL WORLD”

78

→ Might have a different software

→ Don't get caught up too much in details.

The most important thing for you to know is how to chart a dental implant.

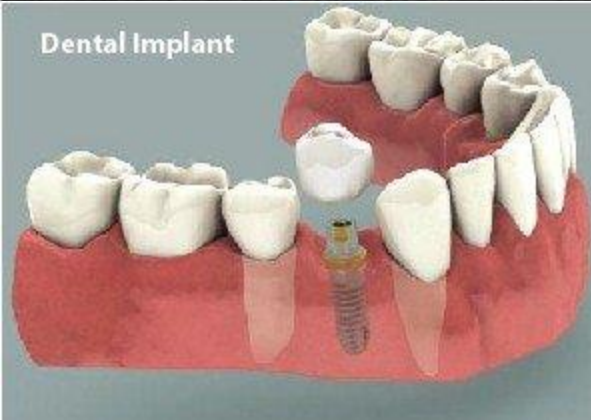
Do not worry about specific codes, most offices will have a treatment plan coordinator, or the dentist or dental assistant will know specific codes/insurances



IMPLANT VS. BRIDGE

PRO & CON

Dental Implant

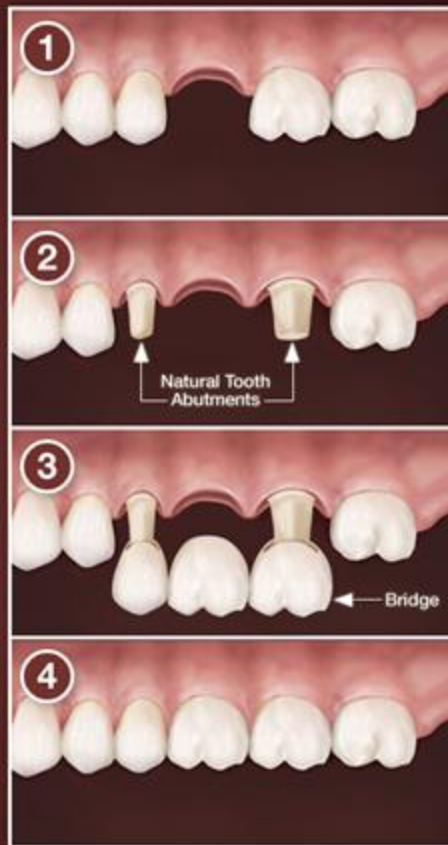
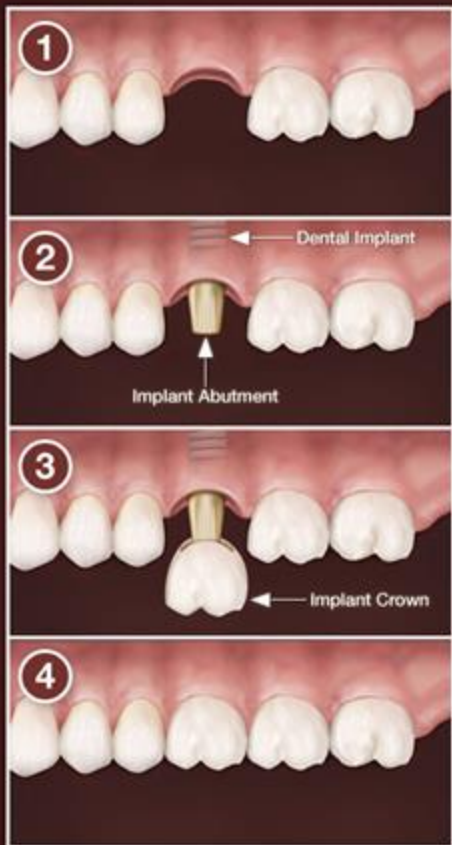


PRO & CON

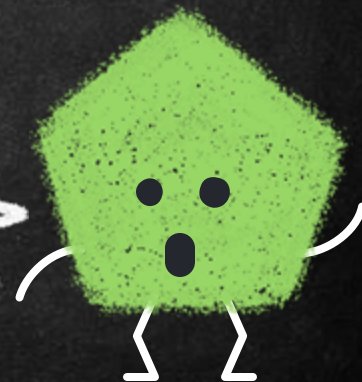
Dental Bridge



Dental Implant vs Bridgework



<https://images.app.goo.gl/jvY4daAZJomxTPuU7>



A FEW ANSWERS- IMPLANT V. BRIDGE

PRO implant

- Industry standard/ideal
- Preserves bone
- Preserves enamel
- Easier to cleanse

PRO Bridge

- Does not require as much bone
- Less costly

CON implant

- More costly
- Might not have enough bone
- Medical contraindications

CON Bridge



Helpful Resources



Podcast!

<https://www.ataleoftwohygienists.com/tag/dental-implants/>

Dental Hygiene Implant Expert



- Created “implant care practitioner” training
- <http://www.rdhinnovation.com/>
- Dental Implants Uncovered Facebook Group



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FACULTY RESOURCES

Current Concepts in Dental Implants: Clinical Assessment in the Prevention of Peri-implant Mucositis, Peri-implantitis, and Implant Failure

Course Author(s): Corinne M. Kracher, PhD, MSQ

CE Credits: 2 Hour(s)

Intended Audience: Dentists, Dental Hygienists, Dental Assistants, Dental Students, Dental Hygiene Students, Dental Assistant Students

Date Course Online: 06/01/2017

Last Revision Date: 03/05/2021

Course Expiration Date: 03/29/2024

Cost: Free

Method: Self-Instructional

ADD Subject Code(s): 690

Introduction

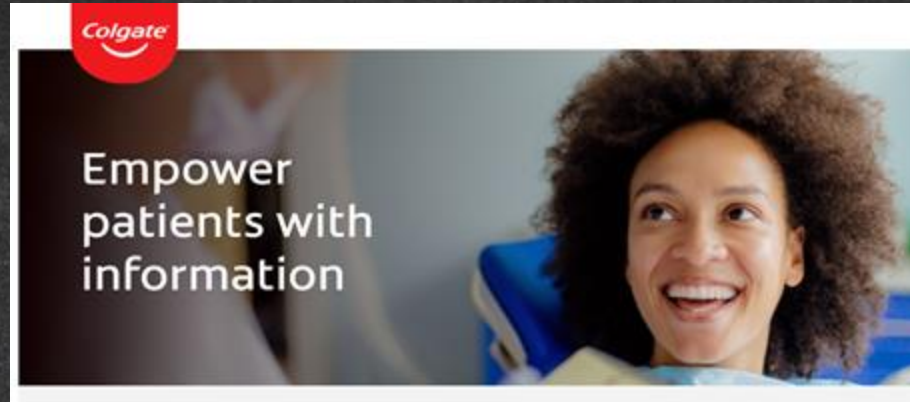
According to the American Association of Oral and Maxillofacial Surgery (AAOMS) and the American Academy of Implant Dentistry (AAID), 69% of adults 35 to 44 years of age have lost at least one permanent tooth due to dental caries, periodontitis, accidents, or failed endodontic therapy. The AAID states that more than 35 million Americans are partially edentulous or edentulous. By age 74, 26% of adults in the United States are edentulous. In recent years, the demand for dental implants has risen greatly, with a reported success rate at approximately 95-98%.^{1,2}

Conflict of Interest Disclosure Statement:

- Dr. Kracher reports no conflicts of interest associated with this course. She has no relevant financial relationships to disclose.

<https://www.dentalcare.com/en-us/professional-education/ce-courses/ce514>

Colgate OHI Resources



<https://www.colgateprofessional.com/patient-education>

THANKS!

Any questions?

Have a wonderful, restful, and SAFE Spring Break!



<https://images.app.goo.gl/x5e5fwFYjiMgFh4>

