

# Implants and the dental assistant

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Reeves College Dental Assisting program

Friday March 20<sup>th</sup>, 2026



Princess Elizabeth  
Dental Training Centre



**PACE**  
ACADEMY of  
GENERAL DENTISTRY  
PROGRAM APPROVAL  
FOR CONTINUING  
EDUCATION

Approved PACE Program Provider for AGD credit.  
Approval does not imply acceptance by a state or  
provincial board of dentistry or AGD endorsement.  
The current term of approval extends from  
July 1st, 2024 to June 30th, 2027.  
Provider ID# 360820

# Objectives for today:

1. What is an implant dentist?
2. Recognise implants in the mouth and on radiographs
3. Basic understanding of types of cases where implants are used
4. Overview of typical implant placement procedures
5. Overview of typical implant restorative procedures
6. What do our assistants do?

# What is an implant dentist?

1



# There are ten recognised dental specialties in Canada:

Dental Public Health

Dental Anaesthesia (new)

Endodontics

Oral and Maxillofacial Surgery

Oral Medicine and Pathology

Oral & Maxillofacial Radiology

Orthodontics and Dentofacial

Orthopaedics

Paediatric Dentistry

Periodontics

Prosthodontics

# Disciplines not recognized as specialties here include:

Orofacial pain

Temporomandibular dysfunction

Sleep disordered breathing

**Dental implantology**

# What does an implant dentist do?

- tooth removal and plasty/grafting
- implant placement surgery
- dental implant restorations
- associated bone/soft tissue grafting
- maintains implants and restorations, including older or unusual cases
- removal of failing implants
- teaching
- research

This is what we do, full time, every day.

# Recognising implants

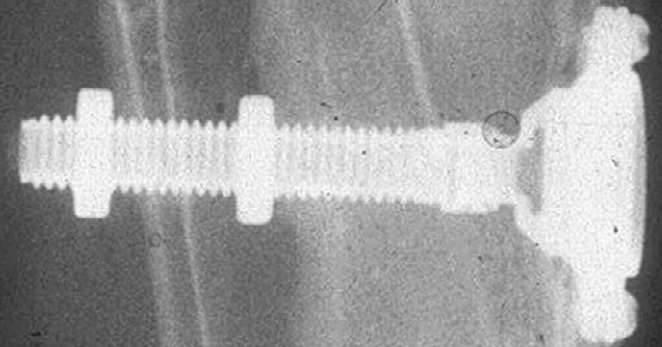
2





Per Ingvar Brånemark

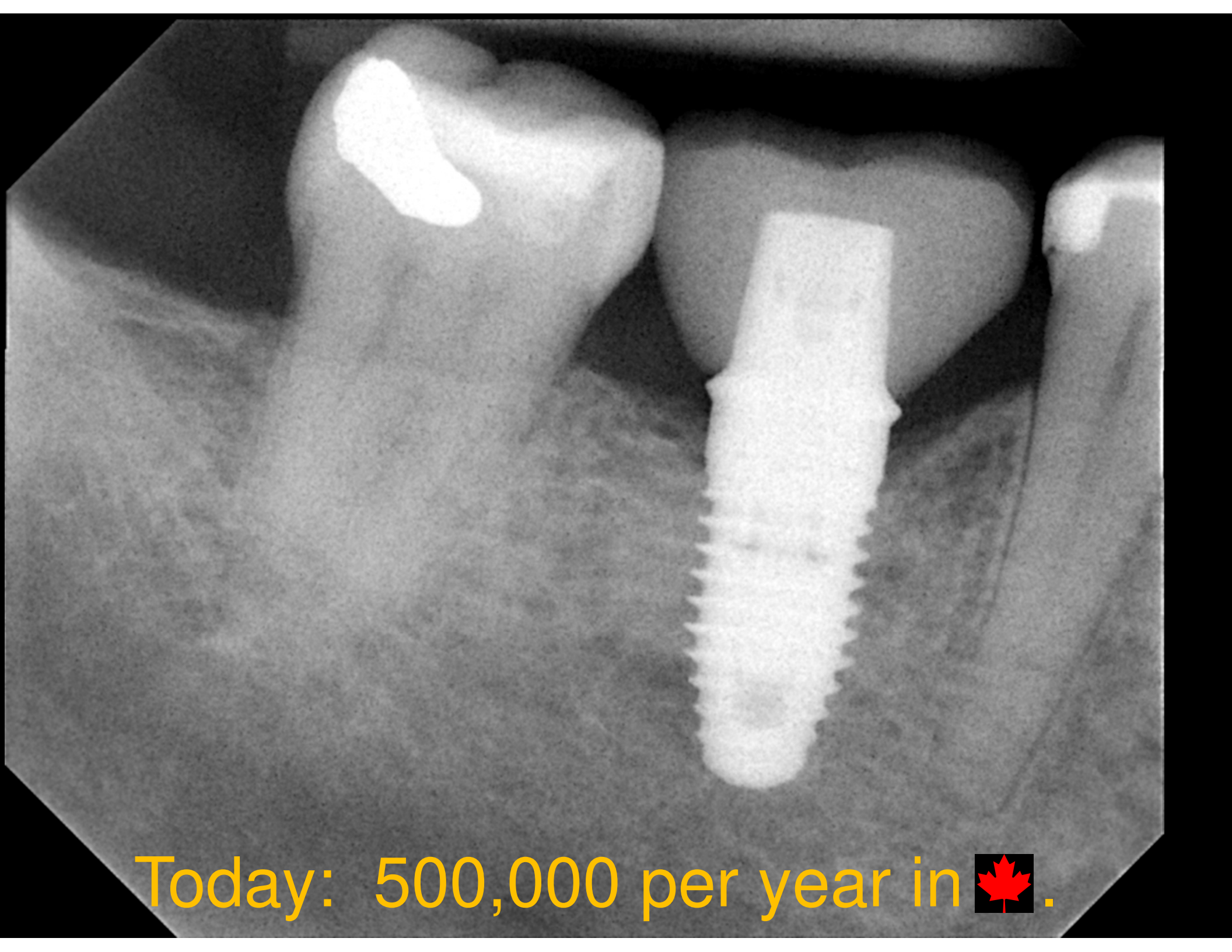
# The story of osseointegration





Metals that will osseointegrate:

- titanium
- zirconium
- tantalum
- niobium
- platinum



Today: 500,000 per year in  .

# Implants are artificial roots



“root form implant”

lots of \$\$\$ are required



\$535



\$35



cover screw

\$55



healing abutment

impression coping

\$68



impression cap



abutment

\$120-  
\$580



temporary crown

\$145



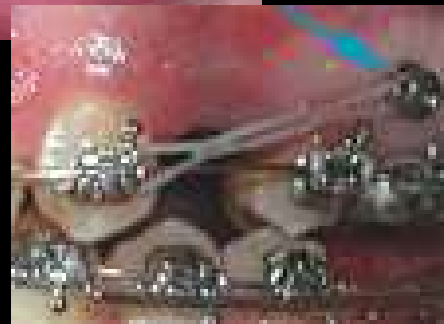
abutment screw

\$42





A one-piece implant  
under 3.0mm in  
diameter is called a  
“mini implant”



Temporary anchorage devices, or  
“TADs”

# Where are implants used?

- Replacing a single tooth or teeth
- Stabilizing dentures and other prostheses

3



# Dental implants are used...

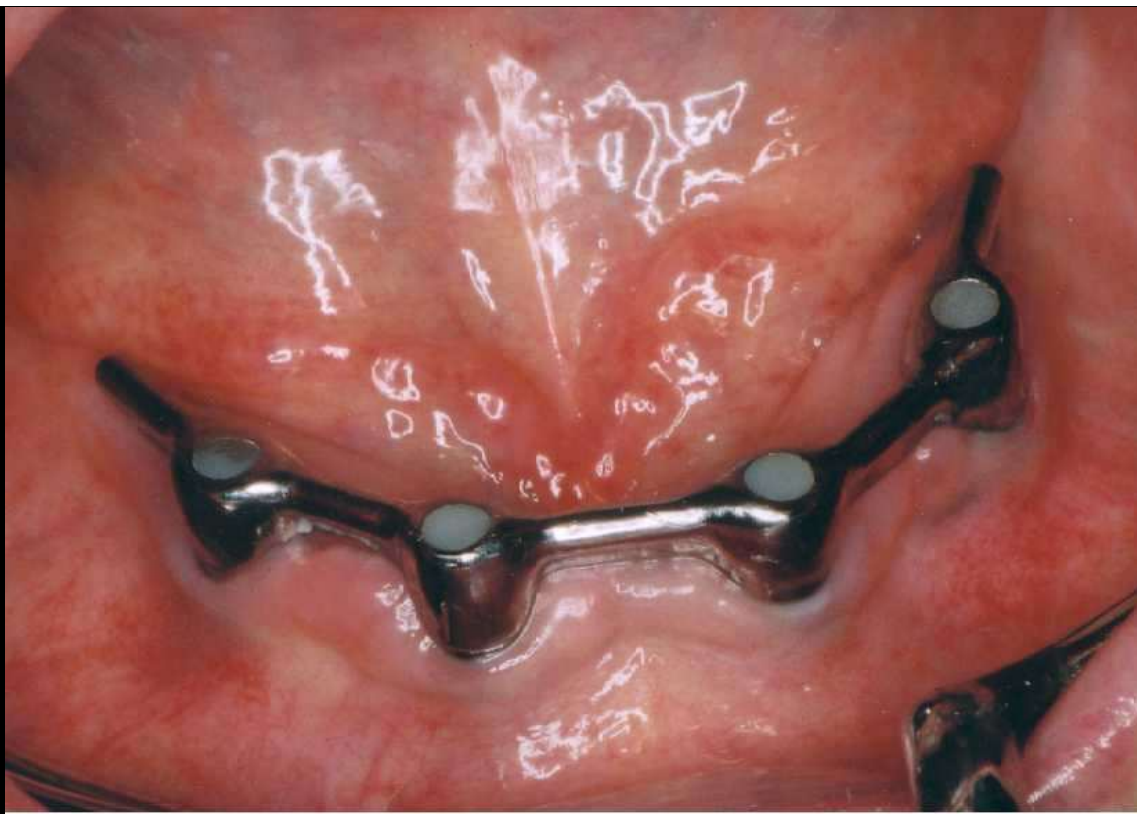
- **To replace missing single teeth**
- To replace multiple missing teeth
- To retain and/or support a removable prosthesis
- To screw a full arch restoration down to
- To retain other prostheses and BAHAs
- For orthodontic anchorage and to perform distraction osteogenesis



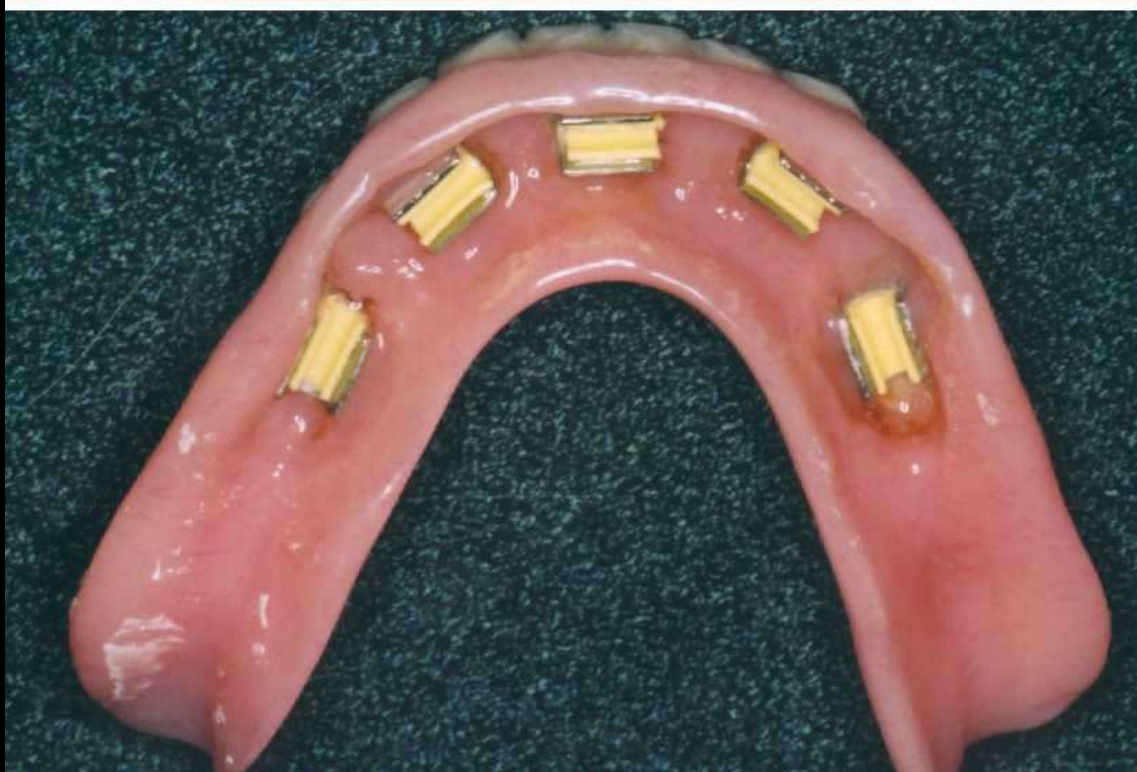
BAHA

“Bone Anchored  
Hearing Aid”





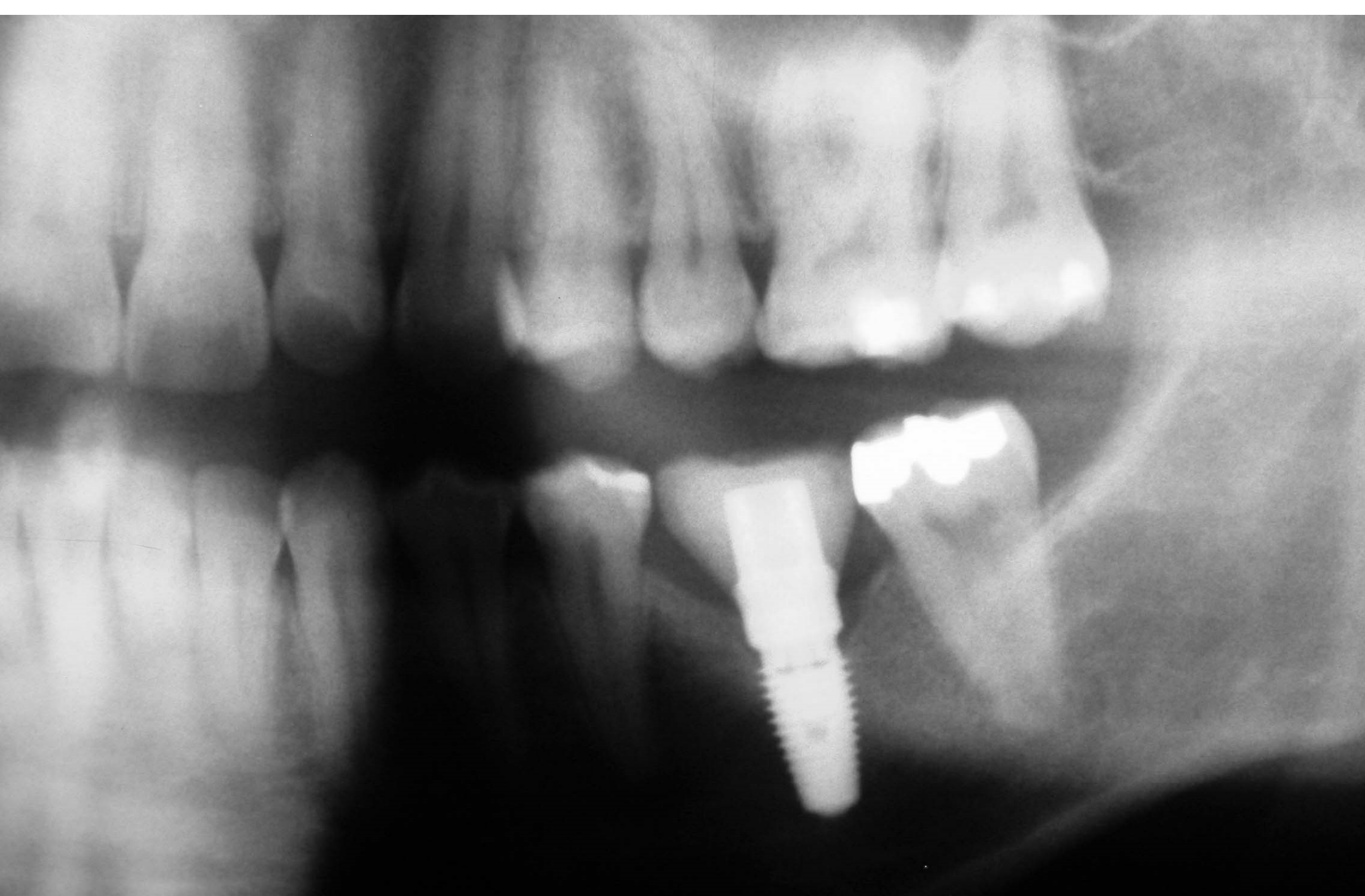
Implant retained  
removeable dental  
prosthesis



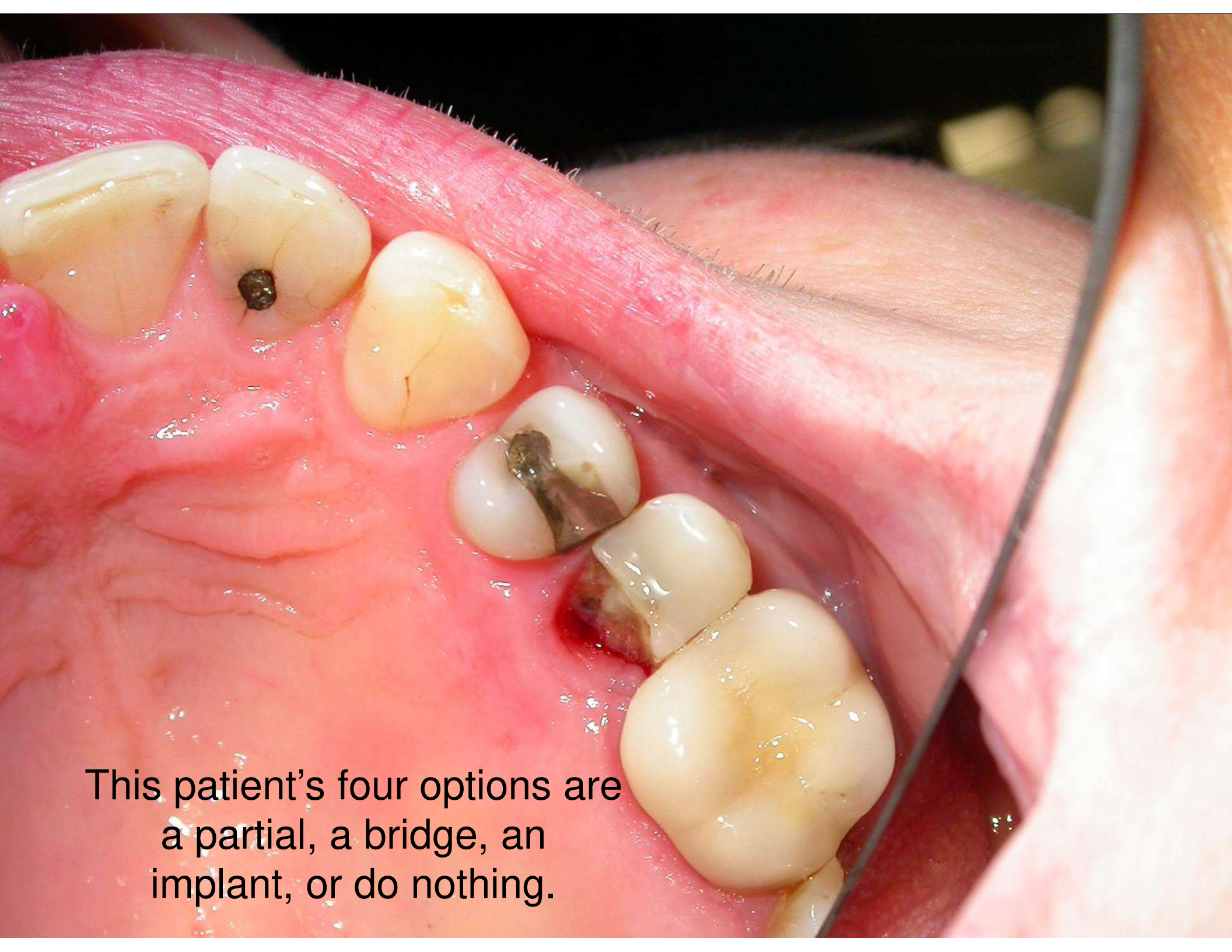
(often called an  
“overdenture”)

# Full arch implant supported restorations





Most common application of implants is now replacement of single teeth



This patient's four options are a partial, a bridge, an implant, or do nothing.

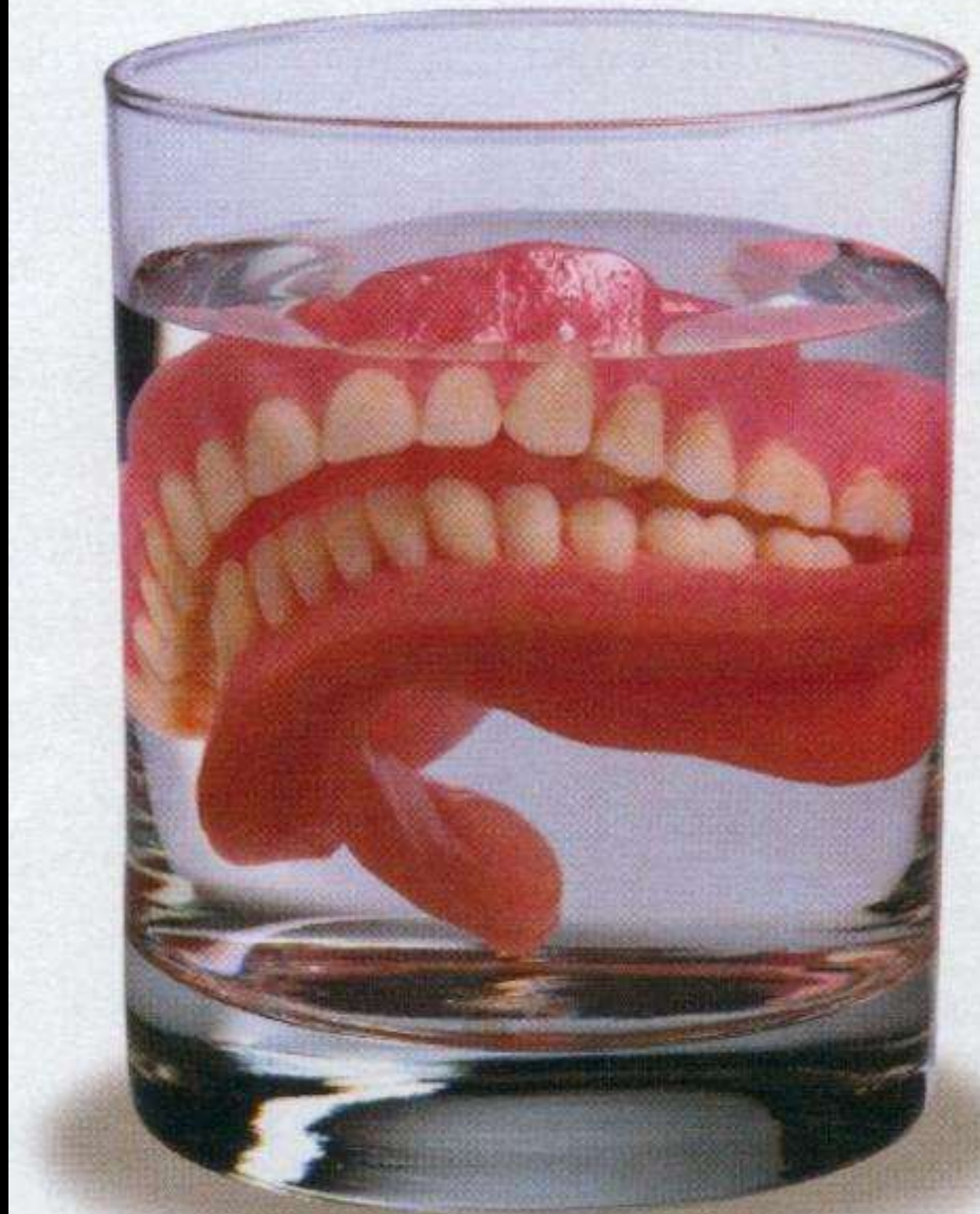
# Now lets look at our options for multiple missing teeth

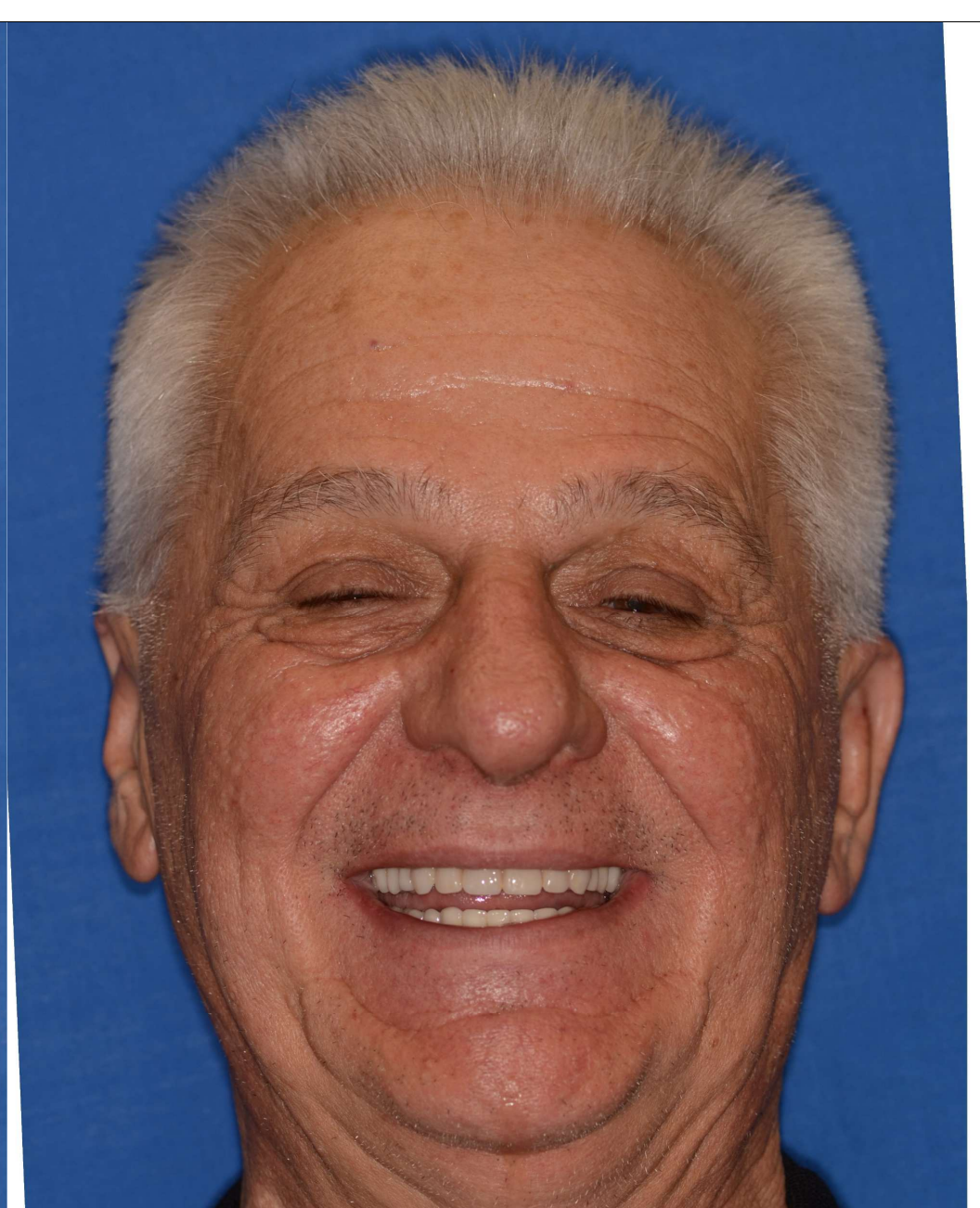
For patients with no teeth in the arch, our options are...

- Go without (“gum it”)
- A conventional plastic denture
- Implants with individual attachments
- Implants with joined attachments (bar w clips)
- Implants with a fixed prosthesis\*
- Implants with crowns and bridgework

\* This is the most rewarding treatment there is in dentistry \*

Dentures are associated with poor overall health, discomfort, and reduced quality of life.





Fixed implant restorations are life-changing for these patients

# Typical implant placement procedure

Three cases

4



IPC is a big deal  
in implant  
surgery.

It is complex,  
time-consuming,  
and expensive


 **Surgical**  
**room**<sup>TM</sup>  
*Your Canadian Dental Implant Proshop*

HOLDEN SURGICAL PACK

**40992BHS**

CONTENTS

- 1 45X45 WRAP
- 20 ULTRA-GAUZE
- 10 4X6 BARRIERS
- 2 COTTON TIP APPLICATORS
- 1 SALIVA EJECTOR
- 1 .125" SURGE-O-VAC TIP
- 1 .25" SURGE-O-VAC TIP
- 1 12CC SYRINGE
- 1 BLUE TOWEL
- 2 BLUE GOWNS
- 1 CAP

LOT 15271117958  2018-03-28

STERILE EO



Rx

6-25 Royal Crest Court  
Markham, ON L3R 9V7

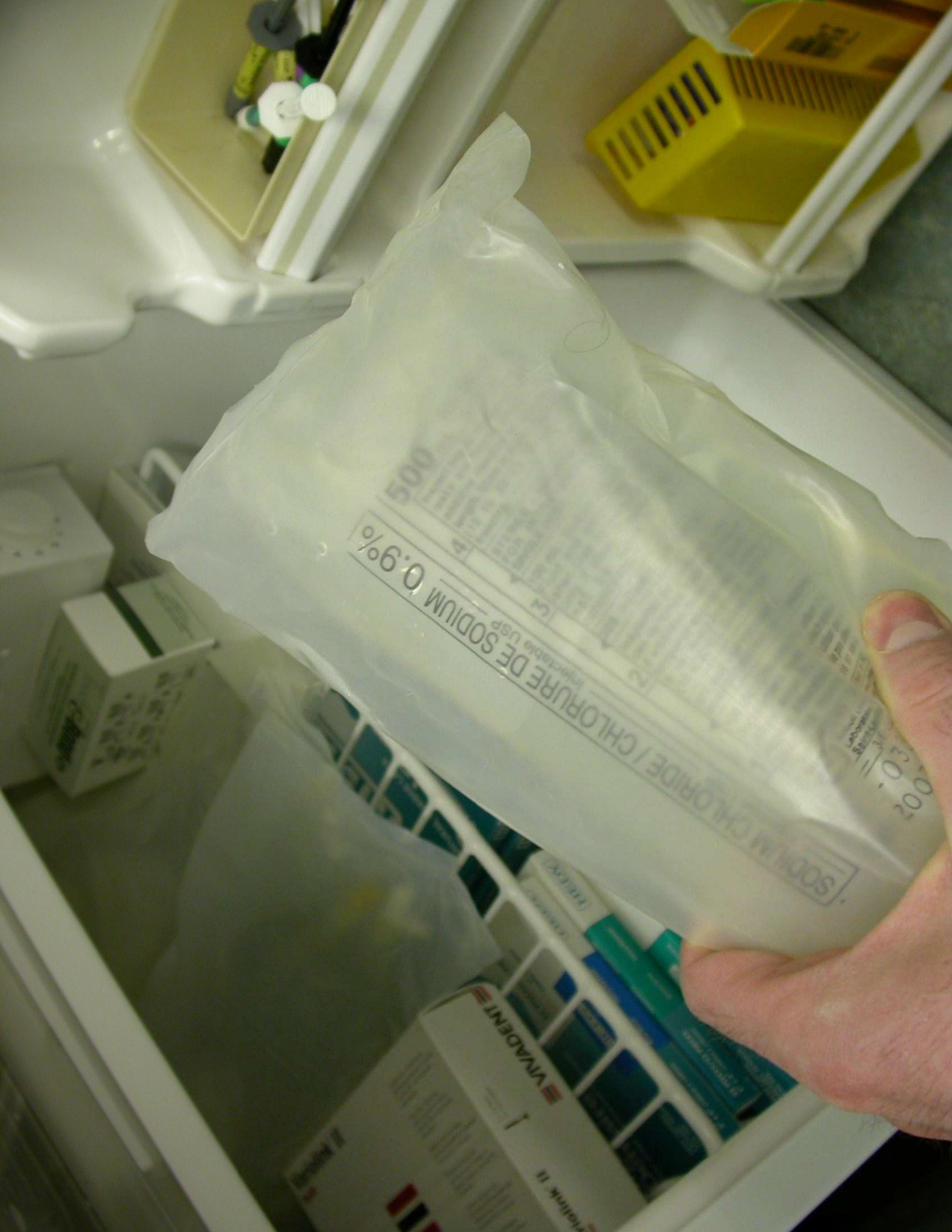
[www.thesurgicalroom.ca](http://www.thesurgicalroom.ca)

1-866-399-4609



The hand instruments used are not unusual or complicated.





SODIUM CHLORIDE / CHLORURE DE SODIUM 0.9%  
Injectable USP

200 mL  
0.9%  
Sodium Chloride

VADANT  
Vadantin II

single u\$  
sterile tubing

REF / Artikel: 00929300  
Länge/Length: 2,2 m

EO

2001.09

hermetisch verpackt  
is undamaged

CE  
0461

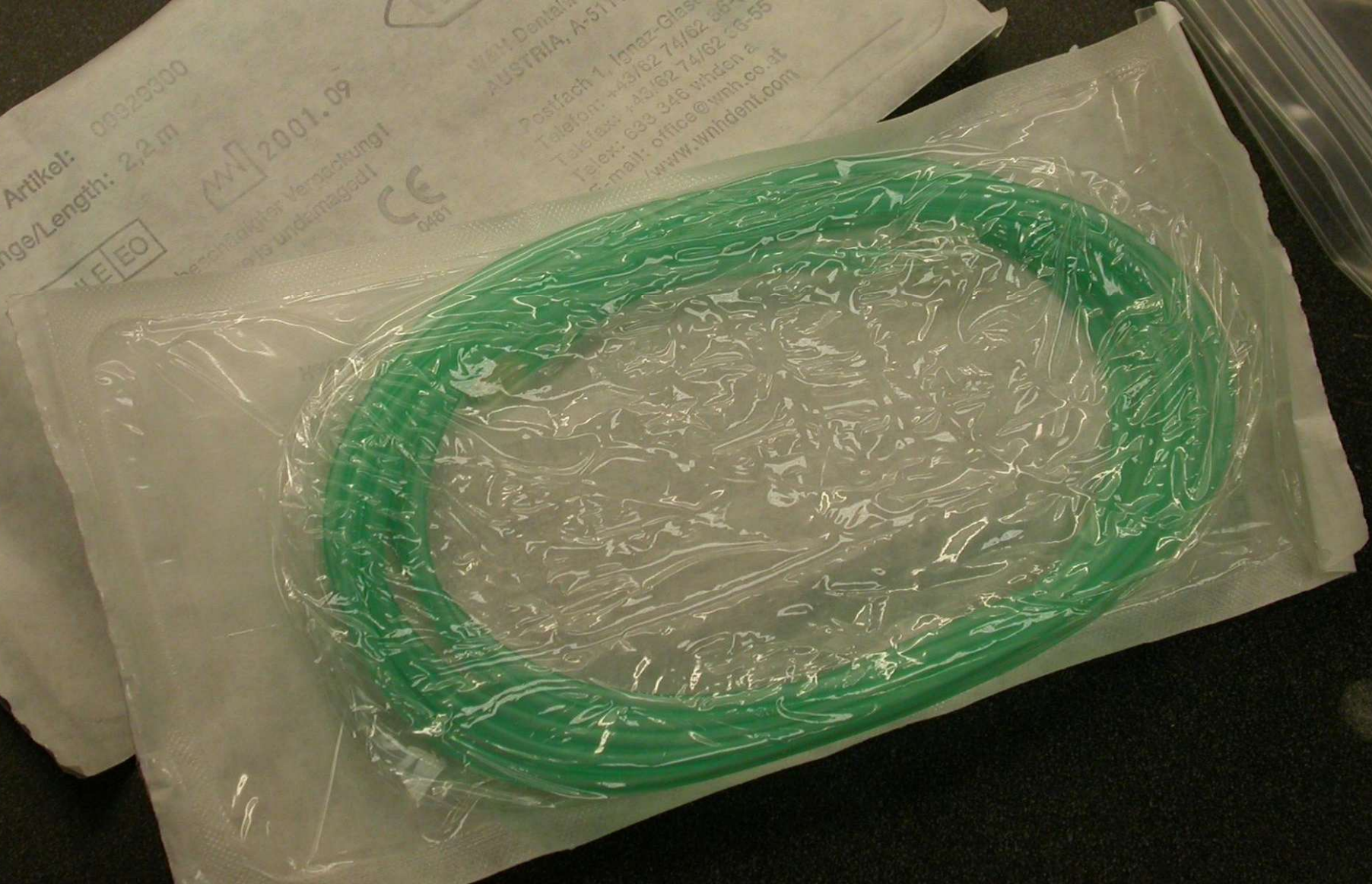
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surgical  
kit

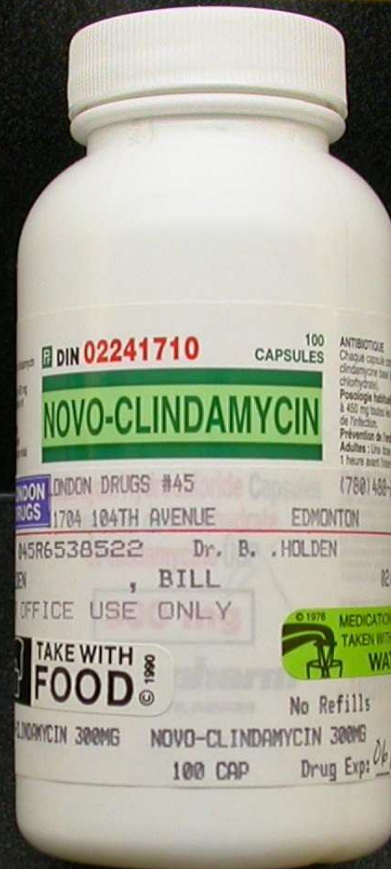


Vitamin



Multivitamin supplement  
Take one tablet per day until finished.  
May turn urine a bright yellow colour which is normal.

Antibiotic



Anti-inflammatory



The only thing that can be guaranteed in dentistry, is that patients will hate their flipper.





Case one. Is this a good implant case?  
What tooth # is it?

# Case two – guided implant placement



Case three: two lower implants for Locator overdenture





Some of these patients have to learn oral hygiene from scratch...

# Typical implant restorative protocols

...a few cases, again as time permits

5



three to four months later...

time to restore our healed implant(s)!

Yup, you need both long and  
short screwdrivers



# Prosthetic kits



Prosthetic Kit	32309
Kit includes	
Prosthetic Kit Box	32322
Screwdriver Machine Unigrip™ 20mm	29151
Screwdriver Machine Unigrip™ 30mm	29153
Screwdriver Machine Multi-unit 21mm	29158
Manual Torque Wrench Prosthetic	29165

analog



3.5

4.3

5.0

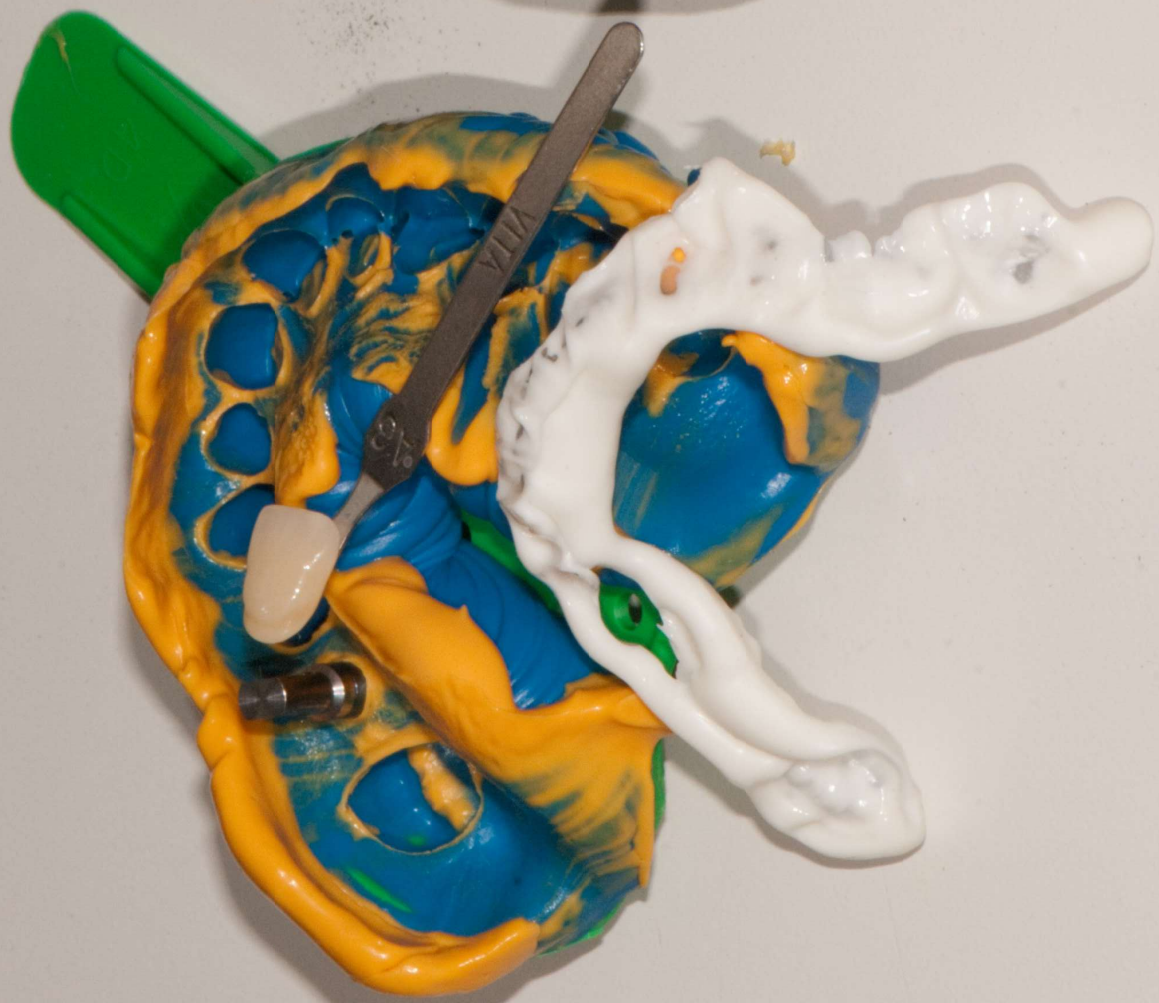
6.0

impression  
copings

So great, now we have an  
impression, now what?

?

Don't let the patient escape just yet...

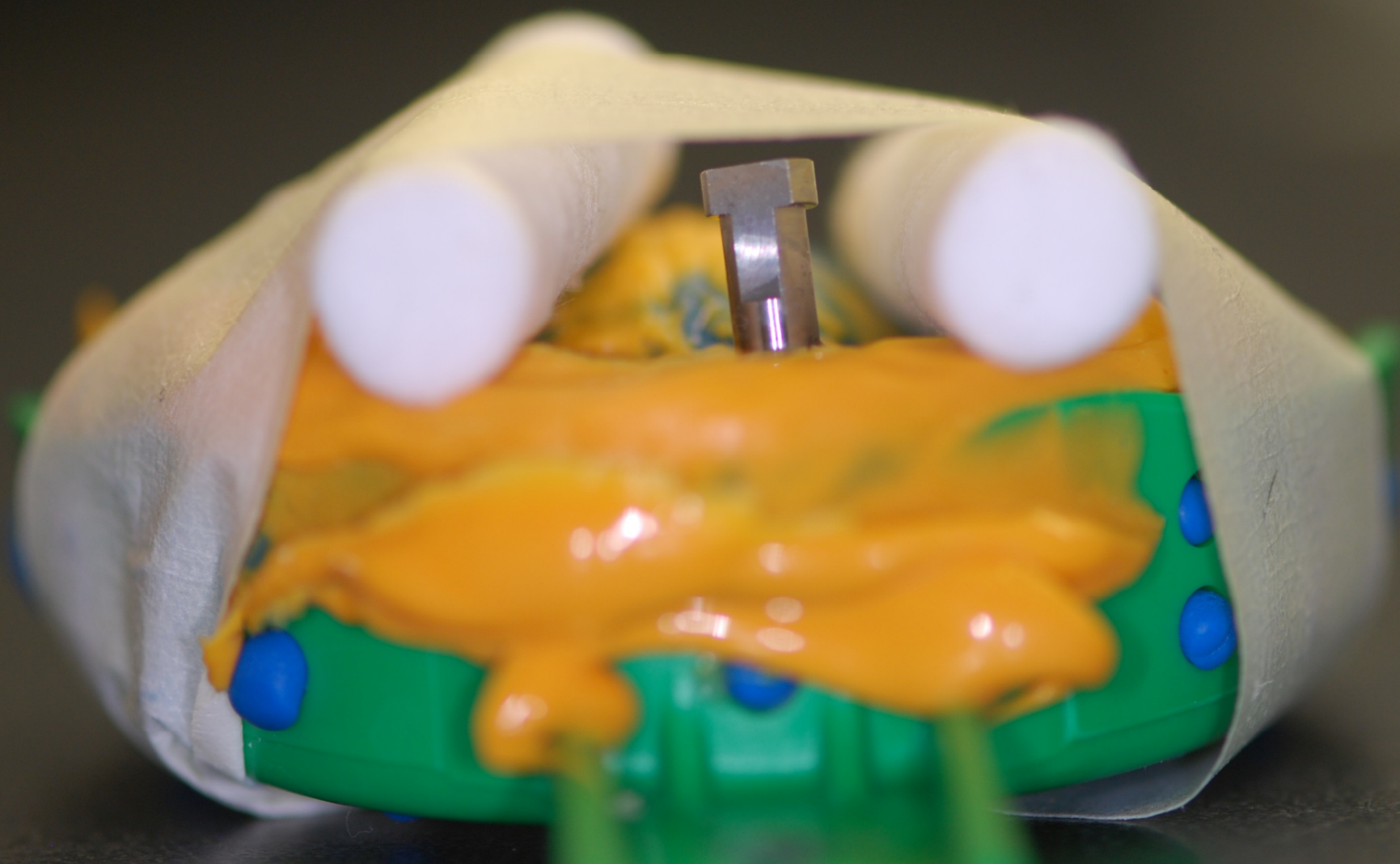


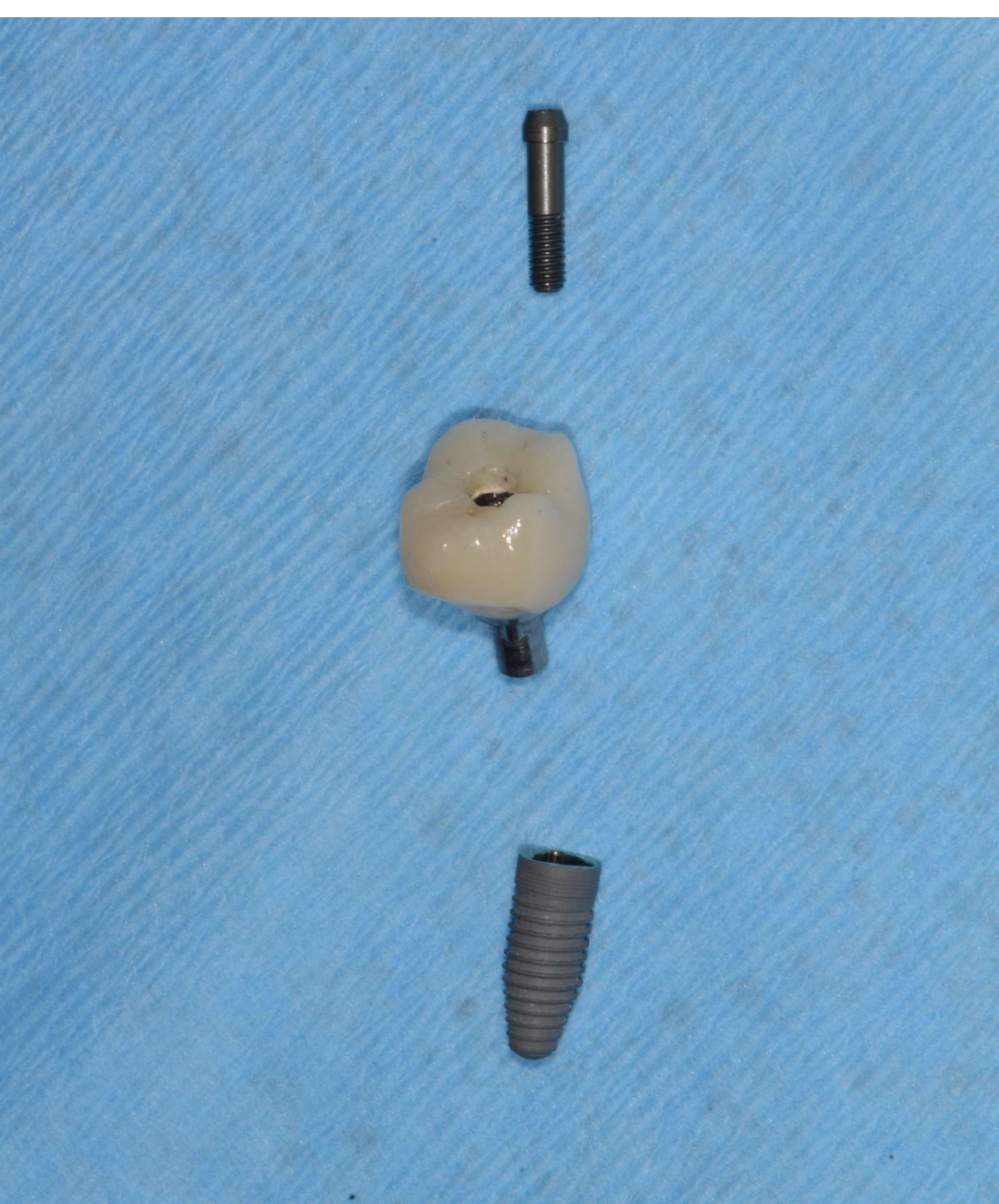
## What to send to the lab:

- final impression with impression coping/analog placed
  - opposing model
  - bite/cant record if required
- facebow or Koisbow if required
  - shade
- laboratory Rx...filled out properly!

Optional: pre-op models, photos, etc.

Ready to roll!





The vast majority of implant crowns done nowadays are one-piece, screw-retained crowns.

# Now let's insert a screw retained implant crown.

## We will require

- Completed case from lab
- Screwdrivers (long and short), torque wrench
- Screw blockout material
- Opaquing agent, flowable composite
- Floss, articulating paper, shimstock
- Regular exam kit
- Handpieces and burs to adjust, polish

# What do our assistants do?

A day in the life of Pam and Kyla 😊

6



The International Congress of Oral Implantologists

and  
The Association of Dental Implant Auxiliaries  
and Practice Management

present this certificate of attendance to

Pamela L. Stockman

for the

Dental Assisting Implant Certification Program

D. K. Cunningham

Paul H. Wapp

Lynn D. Montilla

# The fun stuff!

☺ Meeting patients

☺ Surgery and procedures



## The fun stuff!

😊 Improving patients' quality and quantity of life.

😊 Constant learning and upgrading.



# A typical consult appointment

Patient history and interview incl cc, medications, med hx, BP

Photo series, radiographs, CBCT scan acquisition

Computer charting, treatment planning, print txp, book appts



# A typical surgery appointment

Setup operatory (10-12 minutes).

Consent form, baseline BP, prep patient.

Scrub, gown up.

Assist surgery: suction, retract, cut sutures, load/place grafts.

Prepare graft materials, membranes, implants, parts, draw meds.

Final records, discharge instructions and medications.

Take down op, run suctions, process instruments (20-35 minutes)

Phone to check on  
patient the next day.



# A typical final impression appointment

Radiograph.

Scan opposing, scan bite, remove healing abutment and place scan body, re-scan, scan bite, shade selection.

Remove scan body and replace healing abutment.

Fill in lab requisition, post-process STLs, download to USBs.



versus



# Other stuff our RDAs do:

Answer phone calls from

other offices

Inventory and ordering

Track lab cases

Office and equipment maintenance

Eat lunch (occasionally)

Date	Last Name	First Name	Implant/material
July 14/08	Miller	Dana	NOBELREPLACE Tapered Groovy RP 4 3x13mm REF 32217 LOT 690280
July 21/08	Hill	Lynn	AlloDerm® Regenerative Tissue Matrix Lot 822910-019 Expires 2009-09 Recorder Number 302001 May contain traces of: Octanolin, Cetastin, Lidocaine, Polymyxin B, Vancomycin LifeCell Corporation 924-947-1215 Bios (cm) 1 x 1 Thickness (mm) .89-1.65 All Dimensions are approximate 150P0105 Rev D
↓	↓	↓	
July 22/08	Montgomery	Christine	NOBELREPLACE Tapered Groovy RP 4 3x10mm REF 32216 LOT 410818
July 22/08	Desler	Paul	NOBELREPLACE Tapered Groovy RP 4 3x10mm REF 32216 LOT 410826
" "	Cutler	Carlos	Tapered Groovy RP 4 3x13mm REF 32217 LOT 414001
July 23/08	Zappala	Darrel	Blue Sky Bio, LLC Implant Tri-Lobe 5.0 x 10mm REF 1TT5010 LOT 08-0021 www.BlueSkyBio.com
" "	Jensen	Lisa	NOBELREPLACE Tapered Groovy RP 3 5x13mm REF 32213 LOT 413878
" "	Nolan	Robert	NOBELREPLACE Tapered Groovy RP 4 3x13mm REF 32217 LOT 692960
July 24/08	Frank	Frank	Graft ID 07-43148-221 Code GC110 Exp Date MAR 27 2011
↓	↓	↓	NOBELREPLACE Tapered Groovy RP 3 5x16mm REF 32214 LOT 4089-2
July 24/08	Sher	Doug	NOBELREPLACE Tapered Groovy WP 5x10mm REF 32220 LOT 692900
July 25/08	Ferguson	Otto	NOBELREPLACE Tapered Groovy WP 5x8mm REF 32219 LOT 403469
			NOBELREPLACE Tapered Groovy WP 5x10mm REF 32220 LOT 688765
			NOBELREPLACE Tapered Groovy RP 4 3x13mm REF 32217 LOT 692960
↓	↓	↓	NOBELREPLACE Tapered Groovy RP 4 3x13mm REF 32217 LOT 688175
			NOBELREPLACE Tapered Groovy RP 4 3x13mm REF 32217 LOT 670696
			NOBELREPLACE Tapered Groovy WP 5x13mm REF 32221 LOT 087513
			NOBELREPLACE Tapered Groovy WP 5x10mm REF 32220 LOT 690027
			NOBELREPLACE Tapered Groovy WP 5x10mm REF 32221 LOT 414163

We are always available to answer questions, and you are welcome to visit our centre.



# What did we (hopefully) learn today:

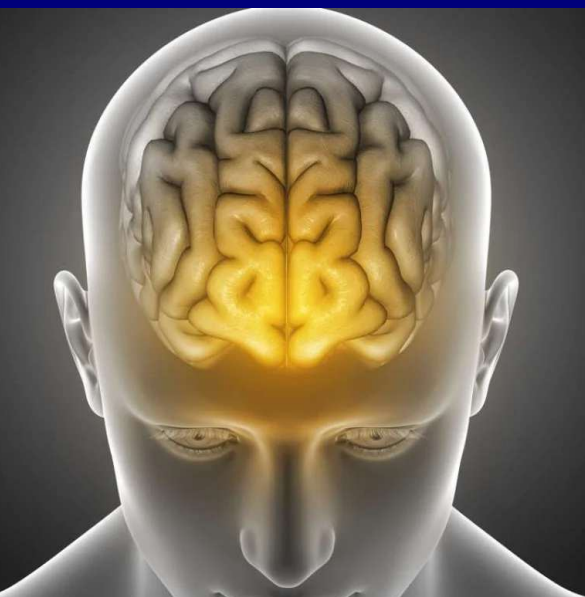
Implant dentists exist!

What dental implants look like

Where they are used

What happens in implant placement  
and restoration procedures

What do implant assistants do





*Thanks!*

*-Bill Holden dds*

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