









J Oral Rehabil 2017 Jul,44(7):563-572.

Shortened dental arch and prosthetic effect on oral health-related quality of life: a systematic review and meta-analysis K Fueki, K Baba

This systematic review aimed to compare oral health-related quality of life (OHROOL) between two tooth replacement strategies - the shortened dental arch (SDA) concept and conventional treatment with removable partial dental prosthesis (RPDP) or implant-supported fixed partial dental prosthesis (IFPDP) - for distal extension of edentulous space in the posterior area. We [...]

There was no statistically significant difference in OHIP summary scores between SDA and RPDP at 6 (SWMD = 0.24) or 12 (SWMD = 0.40) months post-treatment. Only one non-RCT had reported higher OHRQoL with IFPDP than with SDA; however, because of the small sample size, there was no significant difference in OHIP summary scores...

Do we replace second molars?

It depends on the situation.

- Available bone present (and at usable position/angle)
- · Adequate keratinised gingiva
- Opposing occlusion present
- Third molar present in function
- Patient can open wide enough

Concept 1: First molar occlusion as a treatment goal

Whenever we see a patient who is missing one or more teeth, our starting point should be

'How can I get this patient back to first molar occlusion?"

Concept 2: Implants are only one of several options What are our options to replace missing teeth? (hint: there are four flavours)

Concept 2: Implants are only one of several options

- · Remember:
 - denture-bridge-implant-nothing
- Implant placement is elective treatment
- No guarantee your implant will succeed
- · Neither implants, nor teeth, are forever
- · Forward compatibility is important
- Aside from bone loss, a denture or retainer doesn't burn any bridges
- Remember: dental implant placement is an elective procedure

Concept 3: Dental implants are second stage therapy

and should be placed <u>after</u> stage one (disease control) therapy is complete, including cleaning, minor restorative, extractions, and endodontic treatments

and also after any orthodontic treatment

cast partial dentures, crown & bridge: also stage 2

Concept 3: Dental implants are second stage therapy

- Titanium is part of a complete breakfast treatment plan
- Get the damned teeth cleaned first. Yeesh.
- Restorability of other teeth needs to be known as well
- Placing implants when other infection present increases failure risk
- Complete treatment plans include both arches

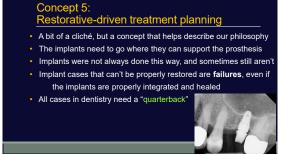
Concept 4: (a quick one)
Implants stand alone

Implants are best

NOT SPLINTED TO TEETH

esp while you are learning.

We will do so sometimes in very specific cases. For you guys, for now, just say no.



So our five general treatment planning concepts are:

First molar occlusion as a treatment goal

Dental implant treatment is only one of four+ options

Dental implants are second stage therapy

Implants are not splinted to teeth

Restoratively driven treatment planning

And remember:
implants are not for everyone

This is elective treatment
Some patients are contraindicated
Some patients are just not good candidates
An implant is not always our treatment of choice

No one ever got in trouble for declining to treat.

Course objectives (again):

To be able to recognize when a dental implant case is straightforward, and when to refer out

To feel comfortable treatment planning, placing, and restoring single tooth implants (STIs) in these straightforward cases

To receive and use the tools to integrate this in your day-to-day practice

To recognize and manage common complications

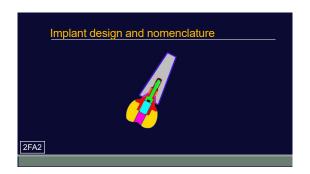
How are we going to accomplish that in 36 hours???

WEEKEND 1
Friday January 19th
Saturday January 20th

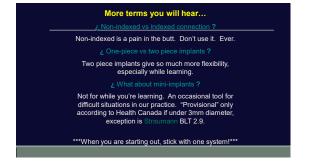
Introduction, treatment planning, risk assessment, socket grafting restorative treatment planning, single implant restoration

WEEKEND 2
Friday February 10th
Saturday March 23th
Saturd

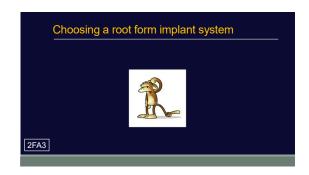












Factors in choosing the right system for you...

1. You want to invest in ONLY ONE SYSTEM when you are starting out.





Factors in choosing the right system for you...
3. You want a system you can use in all common situations.



Factors in choosing the right system for you...

5. When starting out, you need a company with support, typically a sales rep who can come to your location.

6. You want a system that is easy to learn, implement, and restore.

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Life just got way more complicated.

- Stay away from tissue level.
- 2. Pick one system
- why we are teaching Straumann BLT...

 and suggest it as a starter system:

 You can use them in all situations, only one system to buy.

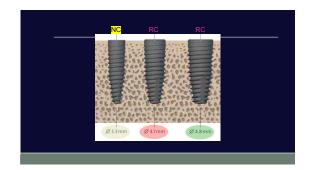
 One of the easiest systems to learn.

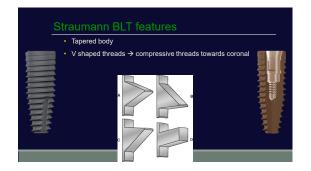
 Easy to restore, with lots of OEM restorative options.

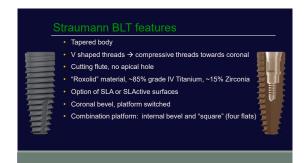
 They have actual sales reps. Here in Edmonton.

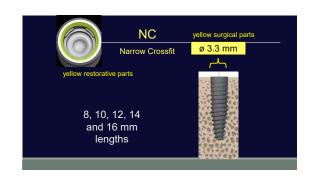
 Lots of parts and support avail in Edmonton area.

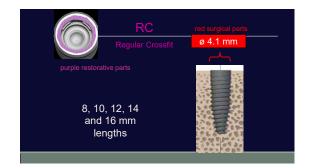
 Options to add to your implant armamentarium later (guided, 2.9SC, full arch, etc.)

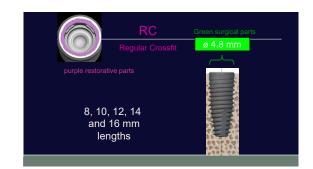




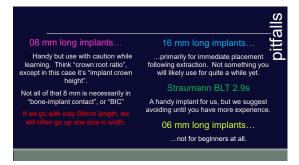












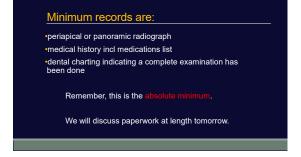














Infection control compliance takes time!

Complying with both CDSA and AHS IPC regulations takes your staff a lot of time, when setting up and taking down from implant surgery. This is especially true when just starting out.

IPC will be discussed in detail tomorrow. For now, just recognise that we have to...

...use the normal clean technique you would use for restorative, plus:

1. Clear out and double wipe operatory
2. CSR double wrap and pack instruments, with spore test and quarantined
3. Sterile sided towel or drape
4. Scrub tissue area with Peridex or iodine
5. Sterile saline or sterile H₂0 to rinse
6. Sterile disposable hoses for irrigant
7. Wear sterile gloves during actual placement (handling implant drills)—
realistically, gown and sterile gloves the whole time

Bottom line: you need to book more time, esp while you and your
assistants are learning

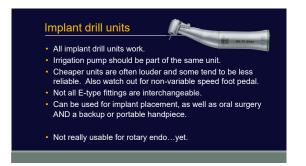
Homework: tell your staff...

...only book one implant placement per half day at first (or maybe better yet, just one per day) because of sterilisation/ quarantine requirements.

Implant placement is a full uninterupted hour.

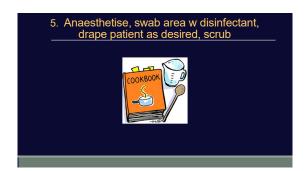
3. Ensure adequate implant inventory on hand, plus hoses, saline, etc.

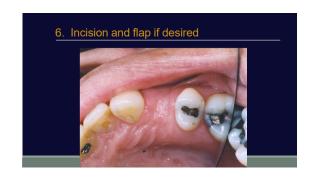
















Drilling, and therefore implant position, has three components:

I. Platform location—"Where do we start drilling?"
Easy to learn

II. Implant angulation—"What direction should it point?"
Harder

III. Platform depth—"How deep do we sink the implant?"
Hardest thing to learn!





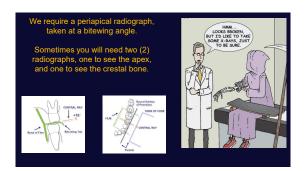
II. Orientation

Implants are ideally oriented perpendicular to occlusal plane.

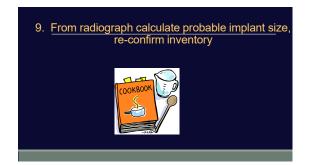
In reality, the bone and adjacent teeth (and roots!) dictate direction to a large degree, especially in the maxilla.

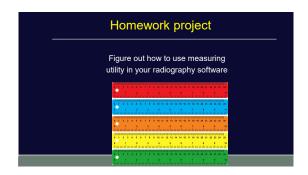
The implant should point at the opposing tooth's central groove or functional cusp.

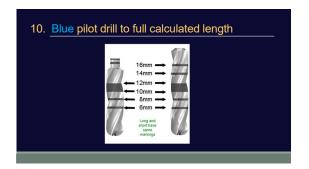




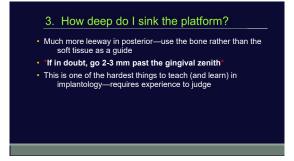








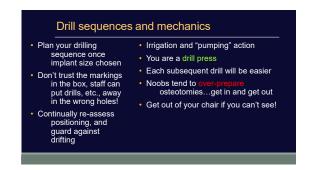
3. How deep do I sink the platform? factors depth of collar in bone depth of collar to soft tissue at crest inter-arch clearance, if limited risk from inadvertent loading height of available bone note that bone is rarely flat in the site Remember these are bone level implants

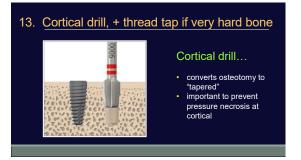






















How tight? Torque for implant placement Refers to the rotational force that must be used to overcome the relative resistance of the bone Searching for the 'happy medium' between initial stability and pressure necrosis Optimum varies by situation, but typically between 15 and 45 N-cm for Straumant. BLT

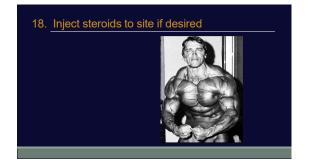
















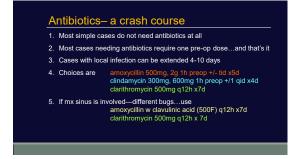


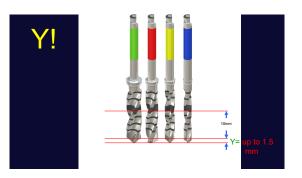


Analgesics

1. Most simple cases require 2 × 200mg ibuprofen when the freezing is wearing off...and that's it
2. Sometimes more if concurrent extraction
3. More complex cases: ketorolac 10mg × 20, 1 q4-6h
4. Acetaminophen: note 3g daily maximum. (Was 4g.)
5. Acetaminophen w codeine: only in rare cases.
6. If pt needs anything stronger, something is wrong.

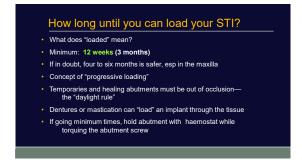
****Pain and infection ↑ with time flap open****











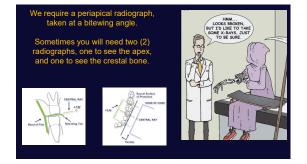
Review…healing times following extraction

Remember, grafted sites heal slower than those with just a blood clot

At the least, you want soft tissue healed over an extraction site, think 4-6 weeks as a minimum

Immediate placement, or wait for healing, none of this "delayed immediate" nonsense

We typically wait twelve weeks

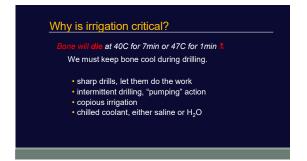


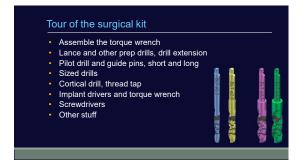


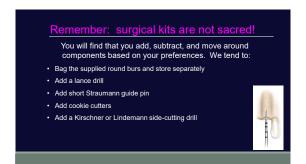






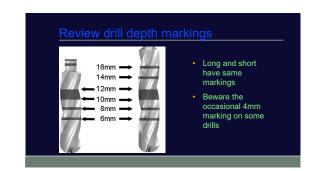




















Before we can finish up and place our implant on the maxilla, we need to review a few more concepts:

Thread tapping (rarely required, but still need to know)
How to open the implant pkg
Carrying implant with the driver and Loxim
Placement torque
Use of the torque ratchet driver
Orientation of the lobe

